January 7, 2013

VIA FEDERAL EXPRESS

Ms. Elizabeth J. Basil, P.E., Director
Engineering Services Division
Bureau of Air Quality
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: Resolute FP US Inc.
Part 70 Operating Permit TV-2440-0005
Permit Renewal Application

Dear Ms. Basil:

Please find enclosed two copies of the Part 70 Operating Permit Renewal Application for the Resolute FP US Inc. (Resolute) facility located in Catawba, South Carolina. An electronic version of the application files has also been provided on compact disc.

The enclosed application for permit renewal has been prepared and submitted in accordance with Part 1.0, Section A and Part 3.0, Section B of the current Part 70 permit. Resolute requests a Permit Shield for this Part 70 Operating Permit Renewal, in accordance with SC Regulation 61-62.70.6(f).

If you have any questions, require further clarification, or need additional information regarding the application or this submittal, please do not hesitate to contact me. Resolute looks forward to working with you and the bureau during the Title V permit renewal process.

Sincerely,

Dale L. Herendeen
Environmental Manager
Resolute FP US Inc.

Enclosures

South Carolina Department of Health and Environmental Control

PROMOTE PROTECT PROSPER

Title V Permit Application
Facility Profile – Form A
Bureau of Air Quality

Please Refer to Instruction Pages Before Completing This Form

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

FACILITY INFORMATION

1. Company Name for Permit:	Resolute FP US Inc.			2. Existing State Air Permit Number:	2440-0005
3. Business Mailing Address:	P. O. Box 7	4. City:	Catawba	5. State: SC	6. Zip Code: 29704-
7. Plant Location (Street or Highway):	5300 Cureton Ferry Road	8. City:	Catawba	9. State: SC	10. Zip Code: 29704-
11. County:	York	12. Primary SIC Code:	2611, 2621	13. NAICS Code:	322110, 322121, 322122
14. EPA (AIRS) Facility Identification No.:	45091000005	15. Latitude:	34°50'37"N	16. Longitude:	80°53'25"W
17. Date Facility Was Built:	1959				

CONTACT INFORMATION

RESPONSIBLE OFFICIAL AUTHORIZED REPRESENTATIVE:		ENVIRONMENTAL / TECHNICAL CONTACT:	
18. Last: Wagener	19. First: Scott	29. Last: Herendeen	30. First: Dale
20. Title: General Manager		31. Title: Environmental Manager	
21. Mailing Address Line 1: P. O. Box 7		32. Mailing Address Line 1: P. O. Box 7	
22. Mailing Address Line 2:		33. Mailing Address Line 2:	
23. City: Catawba	24. State: SC 25. Zip Code: 29704-	34. City: Catawba	35. State: SC 36.Zip Code: 29704-
26. Phone No.: (803) 981-8376 ext.	27. Fax No.: (803) 981-8799	37. Phone No.: (803) 981-8009 ext.	38. Fax No.: (803) 981-8799
28. E-mail Address: Scott.Wagener@resolutefp.com		39. E-mail Address: Dale.Herendeen@resolutefp.com	

PURPOSE OF APPLICATION

40. Facility Type: ☐ Conditional Major ☒ Title V
☐ Co-Located Facility (co-located facility if yes, name and permit # of co-located facility):

41. Permit Action: ☐ New ☒ Renewal
Modification: ☐ Administrative Amendment (Submit Form AA) ☐ Minor Modification (Submit Form MM) ☐ Significant Modification (Submit Form SM) ☐ Operational Flexibility (Submit Form OF)

42. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? ☐ No ☒ Yes
If "Yes", Indicate Non-attainment Pollutant(s): ☐ $PM_{2.5}$ ☒ O_3 (Precursor pollutants to Ozone are NOx and VOC)

SIGNATURES

I certify, to the best of my knowledge and belief, that no applicable standards and/or regulations will be contravened or violated. I certify that any application form, report, or compliance certification submitted in this permit application is true, accurate, and complete based on information and belief formed after reasonable inquiry. I understand that any statements and/or descriptions which are found to be incorrect may result in the immediate revocation of any permit issued for this application.

43. Responsible Official Signature/Authorized Representative Title/Position Date

Note* For change or addition of responsible official(s) submit Responsible Official (RO) Notification Form (see attachment E)

CONSULTING FIRM INFORMATION

44. Consulting Firm:	URS Corporation		
Preparer Name:	45. Last Moore	46. First Steven	
47. Mailing Address Line 1:	128 Millport Circle		
48. Mailing Address Line 2:	Suite 100		
49. City: Greenville	50. State: SC	51. Zip Code: 29607-	
52. Phone No.: (864) 527-4734 ext.	53. Fax No.: (864) 609-9069	54. E-mail Address: steven.moore@urs.com	

****INCOMPLETE APPLICATIONS WILL BE RETURNED****

South Carolina Department of Health and Environmental Control

Title V Permit Application
Application Checklist - Form B
Bureau of Air Quality

SUMMARY OF APPLICATION CONTENTS	
GENERAL APPLICATION CONTENTS - DOES THE APPLICATION PACKAGE INCLUDE…	
1. A Table of Contents?	☒ Yes ☐ No ☐ N/A
2. A list of all items for which a permit is being sought (Form C Information)?	☒ Yes ☐ No ☐ N/A
3. A plot plan or map?	☒ Yes ☐ No ☐ N/A
4. A detailed drawing of the layout of the facility showing exhaust points and dimensions of each structure, including height, width, and length?	☐ Yes ☐ No ☒ N/A
5. A detailed facility-wide process description and flow diagram showing the relationship between each emission unit at the facility?	☒ Yes ☐ No ☐ N/A
6. A detailed process description and diagram for each emission unit at the facility?	☒ Yes ☐ No ☐ N/A
7. All reasonably anticipated operating scenarios?	☒ Yes ☐ No ☐ N/A
8. Are fugitive emissions included in Forms D, and F?	☒ Yes ☐ No ☐ N/A
9. Detailed calculations showing: (1) Uncontrolled emissions; (2) Control equipment efficiency; (3) Controlled emissions in pounds per hour and other applicable units, e. g. ppm or grains per cubic foot, if necessary, etc.; and (4) Allowable emissions, in the same terms as above?	☒ Yes ☐ No ☐ N/A
10. A request to utilize the operational flexibility provisions and include the information required for such use? (if applicable)	☐ Yes ☒ No ☐ N/A
11. A request for a permit shield? (Complete Form K)	☒ Yes ☐ No ☐ N/A
12. A completed listing of insignificant emission units, if applicable? (Complete Form G)	☒ Yes ☐ No ☐ N/A
13a. Modeling results for NAAQS, PSD Class II Increment and/or Air Toxics if this facility has not already demonstrated compliance with these Standards as applicable (S.C. Regulation 61-62.5, Standards 2, 7 and 8)?	☐ Yes ☐ No ☒ N/A
13b. If #13a is yes, does the plot plan required by item #3 show stack locations and dimensions (length, width, and height) of buildings/structure?	☐ Yes ☐ No ☒ N/A
14. A completed compliance plan/schedule of compliance as requested in Form I?	☐ Yes ☐ No ☒ N/A
15. A completed compliance plan/schedule of compliance addendum for each of the non-complying emission units for which issuance of a Part 70 permit is requested?	☐ Yes ☐ No ☒ N/A
16. A completed compliance certification form? Complete Forms A and I.	☒ Yes ☐ No ☐ N/A
17. Acid rain portions of permit application and compliance plans, as required by regulations promulgated under Title IV of the Act (if applicable). (See EPA forms on EPA's web site http://www.epa.gov/airmarkets/forms/index.html#permits).	☐ Yes ☐ No ☒ N/A
COPIES OF APPLICATION	
18a. Does the application contain confidential information? If yes, all confidential information should be submitted under separate cover.	☐ Yes ☒ No ☐ N/A
18b. Have **two copies** of the application suitable for public inspection and one copy with confidential information properly marked (if applicable) been submitted, in accordance with applicable regulations?	☒ Yes ☐ No ☐ N/A
19. Has the application been submitted to any other government agency (not required)? If so, who?	☐ Yes ☒ No ☐ N/A
20. Does the application include an electronic copy of the application? (Mandatory)	☒ Yes ☐ No ☐ N/A
21. Is the facility submitting a draft Title V permit with this application (optional)?	☒ Yes ☐ No ☐ N/A
22. For any non-permitted emission sources or activities a separate construction permit application should not be included in this application. Please submit construction permit applications under a separate cover.	
REGULATORY INFORMATION REQUESTED	
23. Does the application include a proposed determination of maximum achievable control technology (MACT) for hazardous air pollutants pursuant to sections 112(g) and 112(j) of the Clean Air Act Amendments of 1990? (if applicable)	☐ Yes ☐ No ☒ N/A
24. Does the application include sufficient information regarding accidental releases pursuant to section 112(r) of the Clean Air Act Amendments of 1990? (if applicable)	☒ Yes ☐ No ☐ N/A
25. Does the application identify all applicable requirements including section 111 (NSPS) and/or Section 112 (NESHAP) of the Clean Air Act? (Form K)	☒ Yes ☐ No ☐ N/A
26. If applicable, is a Compliance Assurance Monitoring (CAM) Plan submitted with this Title V permit application (Form I and/or CAM Plan Supplemental Form)?	☒ Yes ☐ No ☐ N/A

Title V Permit Application
Application Checklist - Form B
Bureau of Air Quality

27. Does the application include an applicability determination for all sources subject to CAM (Form I)?	☒ Yes ☐ No ☐ N/A
28. Is a Lowest Achievable Emission Rate (LAER)/ Best Available Control Technology (BACT) baseline and analysis included?	☒ Yes ☐ No ☐ N/A
28a. Is the facility subject to the NOx SIP call?	☐ Yes ☒ No ☐ N/A
WHY APPLICANT IS APPLYING FOR A TITLE V PERMIT? (CHECK ALL THAT APPLY)	
29a. The "potential to emit" of the facility is 100 tons/year or more for an individual regulated pollutant.	☒ Yes ☐ No ☐ N/A
29b. The facility is an affected facility for acid rain deposition.	☐ Yes ☒ No ☐ N/A
29c. The "potential to emit" for any one hazardous air pollutant is 10 tons/year or more, or the total of all hazardous air pollutants is 25 tons/year or more, or the facility meets an other applicable lower threshold required by a MACT Standard.	☒ Yes ☐ No ☐ N/A
29d. Other reason –(e.g. co-location) Please list:	☐ Yes ☐ No ☒ N/A
CONDITIONAL MAJOR REQUEST OR REGULATORY AVOIDANCE	
30. Are all controlled emissions of the facility below the applicability levels for Part 70 permit?	☐ Yes ☒ No ☐ N/A
31. Does the application propose limitations that will constrain the operation of the facility such that potential emissions of the facility will fall below applicability levels for Part 70 permits or MACT applicability?	☐ Yes ☒ No ☐ N/A
32. Is the facility requesting a MACT avoidance limit?	☐ Yes ☒ No ☐ N/A
33. Is the facility requesting a PSD/NSR avoidance (facility-wide)?	☐ Yes ☒ No ☐ N/A
34. Is the facility requesting a BACT/LAER, SC Regulation 61-62.5, Standard 5.1 avoidance?	☐ Yes ☒ No ☐ N/A

Title V Permit Application
Emission Unit & Equipment Information – Form C
Bureau of Air Quality

Please Refer to Instruction / Definitions Pages Before Completing This Form

EMISSION UNIT DESCRIPTION (Table is a description of emission units located at this facility)		
1. Emission Unit ID (If the emission unit is on the Insignificant Activity List proceed to Forms G & F)	**2. Emission Unit Description/Purpose**	**3. Control Device**
01	Woodyard Area	N/A
02	Kraft Process- Kraft Pulp Mill	TRS Scrubber, Boiler Incineration
03	Kraft Process- Bleach Plant	Scrubber
04	Kraft Process- Chlorine Dioxide Plant	Scrubber
05	TMP Process	N/A
06	Paper Mill	Baghouses (2), Filters
07	Chemical Recovery	Boiler incineration, ESPs (3), Scrubbers (2), Baghouses (2)
08	Utilities	Cyclones, ESPs (2)
09	Waste Treatment	Boiler Incineration
10	Storage Tanks	N/A
11	Miscellaneous	N/A

EMISSION UNIT PROCESS DESCRIPTION (For each emission unit listed above, provide the following emission unit process description information)					
1. Emission Unit ID	**4. Process Weight Rate (tons/hr)**	**5. Production Rate (units per time period)**	**6. Product**	**7. SIC/NAICS Code**	**8. Comments (Special permit limits, etc.)**
01	898	N/A	Wood chips and hog fuel	2611/2621 322110/322122/ 322121	No permitted production limit
02	300*	1,825 ADTUBP/day	Unbleached kraft pulp	2611/2621 322110/322122/ 322121	*wood only, does not include kraft cooking chemical loop

EMISSION UNIT PROCESS DESCRIPTION (For each emission unit listed above, provide the following emission unit process description information)					
1. Emission Unit ID	4. Process Weight Rate (tons/hr)	5. Production Rate (units per time period)	6. Product	7. SIC/NAICS Code	8. Comments (Special permit limits, etc.)
03	78	N/A	Bleached kraft pulp	2611/2621 322110/322122/ 322121	No permitted production limit
04	6.4	N/A	Chlorine dioxide	2611/2621 322110/322122/ 322121	No permitted production limit
05	103	N/A	Mechanical pulp	2611/2621 322110/322122/ 322121	No permitted production limit
06	130	N/A	Coated paper and market pulp	2611/2621 322110/322122/ 322121	No permitted production limit
07	153*	465 TCaO/day	Kraft cooking chemicals and process steam	2611/2621 322110/322122/ 322121	*emission units subject to kraft pulp mill limits
08	101*	N/A	Process steam and electricity	2611/2621 322110/322122/ 322121	*weight of solid fuel, emission units subject to standard 1 No permitted production limit
09	5,899*	N/A	Treated wastewater	2611/2621 322110/322122/ 322121	*weight of water processed No permitted production limit
10	151*	NA	Methanol	2611/2621 322110/322122/ 322121	*weight of methanol stored No permitted production limit
11	N/A	N/A	N/A	2611/2621 322110/322122/ 322121	No permitted production limit

CONTROL DEVICE INFORMATION
(Table is a description of control devices located at this facility)

3. Control Device ID	9. Control Device Description (Manufacturer, Name, Model #, etc.)	10. Installation Date	11. Pollutant(s) Controlled
2605	B & W No. 1 Combination Boiler	1959	VOC; TRS; HAP
3705	B & W No. 2 Combination Boiler	1968	VOC; TRS; HAP
5260C	LVHC System Caustic Scrubber	2000	VOC; TRS; HAP
5300C	Bleaching System Scrubber	2003	Cl_2; Chlorinated HAP
1790C	Chlorine Dioxide Generator Scrubber (chilled water and white Liquor)	1997	Cl_2
1790Ca	Chlorine Dioxide Generator Tail gas Scrubber (weak wash and white liquor)	1997	Cl_2
B-2000	Starch Silo Bag Houses (2)	1962	PM/PM_{10}
2505C	No. 2 Recovery Furnace ESP	1990	PM/PM_{10}/HAP Metals
5105C	No. 3 Recovery Furnace ESP	1983	PM/PM_{10}/HAP Metals
2511C	Smelt Tanks Venturi Caustic Scrubber (weak wash and caustic)	1966	PM/PM_{10}/HAP Metals/TRS
2723C	No. 2 Lime Kiln ESP	1995	PM/PM_{10}/HAP Metals
2724C	Reburned Lime Silo Bag House	1995	PM/PM_{10}
2725C	Slaker Venturi Scrubber (weak wash and caustic)	1995	PM/PM_{10}
2726C	Purchased Lime Silo Bag House	1995	PM/PM_{10}
2605C	No. 1 Combination Boiler Centrifugal Cyclone	1959	PM/PM_{10}
2610C1	No. 1 Combination Boiler ESP	1959	PM/PM_{10}
3705C	No. 2 Combination Boiler Centrifugal Cyclone	1968	PM/PM_{10}
2610C2	No. 2 Combination Boiler ESP	1980	PM/PM_{10}
5260	LVHC Collection System	2001	VOC; TRS; HAP
5270	HVLC Collection System	2003	VOC; TRS; HAP
9820	Stripper Off Gases (Collection)	2001	VOC; TRS; HAP
9801	Condensate Steam Stripper	2001	VOC; TRS; HAP

CONTROL DEVICE INFORMATION (CONTINUED)

3. Control Device ID	12. Capture System	13. Capture (%)	14. Removal/ Destruction (%)	15. Removal/ Destruction (Method Used to Determine)	16. Parameter Monitored	17. Exhaust ID	18. Comments (special permit limitations, Fuel info., different capture systems, etc.)
2605	LVHC, HVLC, and SOG Systems	99.9	99.9	Engineering Estimate	Flame Failure System	2610S1 or 210S2	Controls 5260, 5270, and 9820
3705	LVHC, HVLC, and SOG Systems	99.9	99.9	Engineering Estimate	Flame Failure System	2610S1 or 2610S2	Controls 5260, 5270, and 9820
5260C	LVHC System	99.9	50 (TRS Only)	Engineering Estimate	Liquid flow and pH	2610S1 or 2610S2	Within LVHC System (5260)
5300C	duct	99.9	95	Engineering Estimate	Liquid flow, pH, fan operation	5300S	
1790C	duct	99.9	98	Engineering Estimate	None	None	In series with 1790Ca
1790Ca	duct	99.9	88 (Cl_2) 92 (ClO_2)	Manufacturer Estimate	Liquid flow, pH, pressure drop	1790S	
B-2000	duct	99.9	99	Engineering Estimate	Visual emissions	B-2000	
2505C	duct	99.9	99.8	Engineering Estimate	COMS	2505S	
5105C	duct	99.9	99.8	Engineering Estimate	COMS	5105S	
2511C	duct	99.9	97.8 (PM) 91.7 (TRS)	Engineering Estimate	Liquid flow, pressure drop	2511S	
2723C	duct	99.9	99.8	Engineering Estimate	COMS	2723S	
2724C	duct	99.9	99	Engineering Estimate	Visual emissions	2724S	
2725C	duct	99.9	90	Engineering Estimate	Liquid flow	2725S	
2726C	duct	99.9	99	Engineering Estimate	Visual emissions	2726S	
2605C	duct	99.9	90	Engineering Estimate	None	None	In series with 2610C1
2610C1	duct	99.9	98.6	Engineering Estimate	COMS	2610S1	
3705C	duct	99.9	90	Engineering Estimate	None	None	In series with 2610C2

CONTROL DEVICE INFORMATION (CONTINUED)							
3. Control Device ID	12. Capture System	13. Capture (%)	14. Removal/ Destruction (%)	15. Removal/ Destruction (Method Used to Determine)	16. Parameter Monitored	17. Exhaust ID	18. Comments (special permit limitations, Fuel info., different capture systems, etc.)
2610C2	duct	99.9	98.6	Engineering Estimate	COMS	2610S2	
5260	LVHC System	99.9	99.9	Engineering Estimate	Flame Failure System	2610S1 or 210S2	In series with 2605 and 3705
5270	HVLC System	99.9	99.9	Engineering Estimate	Flame Failure System	2610S1 or 210S2	In series with 2605 and 3705
9820	SOG System	99.9	99.9	Engineering Estimate	Flame Failure System	2610S1 or 210S2	In series with 2605 and 3705
9801	Foul Condensate Sewer	99.9	92	Engineering Estimate	Steam feed rate, condensate feed rate and feed temperature	N/A	Steam stripper controls HAP emissions from foul condensate in wastewater

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Manufacturer Date and Original and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	**19. Equipment ID**	**20. Equipment Description**	**21. Installation Date (Manufacturer Date and Original and Modification Date)**	**22. Modification Description**	**3. Control Device ID**	**17. Exhaust ID**	**23. Design Capacity (units)**
01	1300	East and West Woodyard Long Wood Handling (2) West Woodyard Purchased Chip Handling East Woodyard Purchased Chip Handling (Rail) East Woodyard Purchased Chip Handing (Truck) w/cyclone East Woodyard Purchased Chip Handling (Rail) Chip Screen East Woodyard Chip Screen with Cyclone West Woodyard Chip Screen East and West Woodyard Debarking Drums (2) East Woodyard Purchased Chip (Rail) Rechipper with Cyclone East Woodyard Chipper with Cyclone West Woodyard Chipper with Cyclone East Woodyard Rechipper with Cyclone West Woodyard Rechipper TMP and Kraft Mill Chip Silos Long Term Storage Pile Outside Chip Storage (2) Hardwood Silos Hardwood Silos Cyclone	1959/1985 and 1991	Like-kind equipment replacement	None	1300	3,445,000 tons/yr
01	1300	Truck Dump	2006	N/A	None	1300	120 tons/hr
01	1300	Rail Dump	2006	N/A	None	1300	300 tons/hr
02	5210	Continuous Digester System: (Digester Chip Bin, Continuous Digester, Chip Feed System, Blow Tank, Steam Economizer and Reboiler)	2003/2012	Yield Increase	5270 2605 3705	2610S1 2610S2	1,825 ADUBTP/day

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	**19. Equipment ID**	**20. Equipment Description**	**21. Installation Date (Manufacturer Date and Original and Modification Date)**	**22. Modification Description**	**3. Control Device ID**	**17. Exhaust ID**	**23. Design Capacity (units)**
02	5220	Turpentine Recovery System: (Gas Cooler, Condenser, Decanter)	2003	N/A	5260 5260C 5270 2605 3705	2610S1 2610S2	1,825 ADUBTP/day
02	5230	Pulp Washing System: (Pressure Diffuser, Filtrate Tank, Brown Stock Liquor Surge Tank)	2003	N/A	5270 2605 3705	2610S1 2610S2	1,825 ADUBTP/day
02	5240	Oxygen Delignification System: (No. 1 O_2 Reactor; Blow Tube; No. 1 Post O_2 Washer; No. 1 Post O_2 Filtrate Tank, No. 2 O_2 Reactor, Blow Tube, No. 2 Post O_2 Washer, No. 2 Post O_2 Filtrate Tank, Post O_2 Surge Tank) (FUTURE - O_2 mixer, O_2 reactor, booster pump)	2003/2012/FUTURE	Yield Increase	5270 2605 3705	2610S1 2610S2	1,825 ADUBTP/day
02	5250	Knotting and Screening System: (HD Tank, Primary Knotter, Secondary Knotter, No. 1 Primary Screen, No. 2 Primary Screen, Secondary Screen, Tertiary Screen, Quaternary Screen, Cleaner, Shive Thickner, Screen Room Filtrate Tank, Screen Room Washer)	2003	N/A	5270 2605 3705	2610S1 2610S2	1,825 ADUBTP/day
03	5300	Four Stage $D_OE_{OP}D_1D_2$ Bleaching System: (D_OTower and Washer; E_{OP} Reactor, Washer and Filtrate Tank; D_1 Tower, Washer, and Filtrate Tank, D_2 Tower, Washer and Filtrate Tank, Acid Sewer, Alkaline Sewer)	2003/2012	Yield Increase	5300C	5300S	1,752 ADTBP/day
04	1790	Chlorine Dioxide Generator: (Generator/Crystallizer/Reboiler , Saltcake Slurry Tank, Hydroclone and Saltcake Filter, Generator Dump Tank, Indirect cooling tower, ClO_2 Adsorption Tower, Barometric Condenser, Seal Pot, ClO_2 Storage Tanks (212,000 gallons), Filtrate Separation System	1977/1997/2012	New Filtrate System	1790C 1790Ca	1790S	40 tons ClO_2/day

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Manufacturer Date and Original and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
05	4400	TMP Lines 1-6 (The following equipment is shared): (Chip Conveyor Chip Washing System: Chip Washer and Screens (3 Sets), Chip Storage Silos (3), Pin Chip Screen Cyclone, Chip Surge Bins (2)(7,481 gallons), Heat and Turpentine Recovery System: Flash Tanks, Surge Tanks, Liquid Phase Separators (1,5204 gallons each), Condensers, Decanter (2,880 gallons)	1986	N/A	None	4400	1,010 ADTP/day
05	4400	TMP Lines 1-3: (Primary, Secondary, and Tertiary Refiner System, Peroxide Towers, Neutralization Chests, Screening and Cleaning systems, Rejects Refiner Systems, Press System, Decker System, Sodium Hydrosulfite Bleaching System)	1986	N/A	None	4400	1,010 ADTP/day
05	4400	TMP Lines 4-6: (Primary, Secondary, and Tertiary Refiner System, Screening and Cleaning Systems, Rejects Refiner Systems, Press System, Decker System, Sodium Hydrosulfite Bleaching System)	1986/2003	Conversion to two-stage refining	None	4400	1,010 ADTP/day
05	4400	Hydrogen Peroxide Bleaching System	2005	N/A	None	4400	375 ADTP/day
06	2000	No. 1 Paper Machine (171,850 ADT Paper/Year): (cleaner system, deculator system, precondenser system, vacuum pump system, screen system, mix tub, headbox system, forming wire, vacuum blower, vacuum trench, save-all system, presses, separators, press pulper, dryer systems, dryer pulper, calendar, dry end pulper, reel, slurry mix tanks, mix tanks)	1962	None	None	2000	171,850 ADT Paper/Year
06	2005	No. 1 Paper Machine Rereeler and Trim Pulper	1962	None	None	2000	171,850 ADT Paper/Year

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	**19. Equipment ID**	**20. Equipment Description**	**21. Installation Date (Manufacturer Date and Original and Modification Date)**	**22. Modification Description**	**3. Control Device ID**	**17. Exhaust ID**	**23. Design Capacity (units)**
06	2010	No. 1 Coater Dryer (Natural Gas fired, Propane, Kerosene): (coater system, coating dryer, screens/filters, reel, and coated broke pulper)	1962	None	None	2000	48×10^6 Btu/hr
06	4600	No. 2 Paper Machine (261,600 ADT Paper/Year): (cleaner system, deculator system, precondenser, vacuum pump system, screen system, headbox system, forming wire, vacuum blower, vacuum trench, save-all system, press system, press pulper, dryer systems, dryer pulper, calendar, dry end pulper, reel, slurry mix tanks, mix tanks)	1986	None	None	4600	261,600 ADT Paper/Year
06	4605	No. 2 Paper Machine Rereeler and Trim Pulper	1986	None	None	4600	261,600 ADT Paper/Year
06	4610	No. 2 Coater Dryer (Natural gas fired, Propane) (coating system, coating dryer, screens/filters, reel, and coated broke pulper)	1986	None	None	4600	64×10^6 Btu/hr
06	4100	No. 3 Lightweight Coated Paper Machine (382,917) ADT Paper/Year): (mixed stock chest, die mix tank, filters, cleaner system, deculator system, precondenser, mixing silo, vacuum pump system, vacuum trench, screen system, headbox system, mix eliminator, vacuum blowers, forming wire, press system, press pulper, dryer systems, economizer, dry end pulper, two-sided rod coater system, coating preparation system, coating mix tank, coating supply tank, steam dryer; calenders, calender pulper, reel, reel pulper, winder, trim pulper)	1968/2003	Conversion to coated paper production	None	4100	382,917 ADT Paper/Year
06	4110	Air Flotation Dryer (Natural Gas)	2003	None	None	4110	16×10^6 Btu/hr
06	4120	Infrared Dryer	2003	None	None	4120	22.6×10^6 Btu/hr

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Manufacturer Date and Original and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
06	4130	Hot Oil Heating System	2003	None	None	4130	9.1×10^6 Btu/hr
06	2100	Pulp Dryer (296,300 ADT Paper/Year): (screen system, decker, headbox system, cylinder mold, hood exhaust system, vacuum system, press system, press pulper, dryers, economizer, dry end pulper, cutter, stacker)	1959/1999	Dry end pulper replacement and new cutter	None	2100	296,300 ADT Paper/Year
06	2100	Booster Oven	1999	None	None	2100	296,300 ADT Paper/Year
06	9900	5.304×10^6 Btu/hr Air Makeup Units (3)	2000	None	None	9900	5.304×10^6 Btu/hr
06	9900	5.46×10^6 Btu/hr Air Makeup Units (6)	2000	None	None	9900	5.46×10^6 Btu/hr
06	9900	6.253×10^6 Btu/hr Air Makeup Units (2)	2000	None	None	9900	6.253×10^6 Btu/hr
06	9900	7.02×10^6 Btu/hr Air Makeup Units (2)	2000	None	None	9900	7.02×10^6 Btu/hr
06	9900	7.28×10^6 Btu/hr Air Makeup Unit (1)	2000	None	None	9900	7.28×10^6 Btu/hr
06	9900	8.45×10^6 Btu/hr Air Makeup Units (4)	2000	None	None	9900	8.45×10^6 Btu/hr
06	9900	10.01×10^6 Btu/hr Air Makeup Unit (1)	2000	None	None	9900	10.01×10^6 Btu/hr
06	9700	Starch Silos [4], Slurry Mix tanks, Starch Cookers, Flash Tank, Mix Tanks	1962	None	B-2000	B-2000	36 tons/hr
06	9701A	1,400 gallon Slurry Tank	2002	None	None	9701A	42 gal/min
06	9701B	1,400 gallon Slurry Tank	2002	None	None	9701B	42 gal/min
06	9702	Starch Cooker	2002	None	None	9702	42 gal/min
06	9703	Flash Tank	2002	None	None	9703	42 gal/min
06	9704	2,900 gallon Paste Tank	2002	None	None	9704	42 gal/min
07	2505	No. 2 Recovery Furnace (412,140 Ton BLS/year) [315,000 lb/hr Maximum steaming rate (on black liquor only)]: (Furnace, Black Liquor Tanks)	1966	N/A	2505C	2505S	412,140 Ton BLS/year

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Manufacturer Date and Original and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
07	2510	No. 2 Smelt Dissolving Tank (412,140 Ton BLS/year)	1966	N/A	2511C	2511S	412,140 Ton BLS/year
07	2515	No. 2 Precipitator Mix Tank	1966	N/A	None	2515	412,140 Ton BLS/year
07	2520	No. 2 Salt Cake Mix Tank	1966	N/A	2505C	2505S	412,140 Ton BLS/year
07	5105	No. 3 Recovery Furnace (744,600 T BLS/year) [560,000 lb/hr Maximum steaming rate (on black liquor only)]: (Furnace, Black Liquor Tanks, Black Flash Tanks, Condensate Flash Tanks, Soap Stand Pipe, Stand Pipe Level Control Tank, Dissolving Tank)	1983;2003;2007	Airflow modifications and new 4th level air	5105C	5105S	744,600 T BLS/year
07	5115	No. 3 Precipitator Mix Tank	1966	N/A	None	5115	744,600 T BLS/year
07	5120	No. 3 Salt Cake Mix Tank	1966	N/A	5105C	5105S	744,600 T BLS/year
07	5110	No. 3 Smelt Dissolving Tank (744,600 T BLS/year)	1983	N/A	2511C	2511S	744,600 T BLS/year
07	2723	No. 2 Lime Kiln (465 T CaO/day)	1995;2003;2010	Low NOx burner and new burner management system	2723S2	2723	465 T CaO/day
07	2700	Green liquor Blend Tank, No. 1 Green Liquor Clarifier (172,730 gallons) , No. 2 Green Liquor Clarifier (845,000 gallons), No. 3 Green Liquor Clarifier (845,000 gallons) , Dregs Filter , Ejector , Green Liquor Storage, Green Liquor Storage Causticizers (3) (18,394 gallons each, White Liquor Pressure Filters, Mud Washer, Lime Mud Precoat Filters , Lime Mud Pre-dryer	1995	N/A	None	2700	465 T CaO/day
07	2700	No. 4 Causticizer (62,555 gallons)	2003	N/A	2725C	2700	465 T CaO/day

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Manufacturer Date and Original and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
07	2701	Slaker	1995	N/A	2725C	2701	465 T CaO/day
07	2702	Purchased Lime Silo	1995	N/A	2726C	2702	465 T CaO/day
07	2703	Reburned Lime Silo	1995	N/A	2724C	2703	360 T CaO/day
07	2400	No. 1 Multi-Effect Evaporator Set (with new concentrator)	1959/2006/2012	New concentrator and heat exchanger	5260 5260C 2605 3705	2610S1 2610S2	1,105.9 TBLS/day
07	2402	Heavy Black Liquor Tank	2006	N/A	None	2400	3,169 TBLS/day
07	2500	No. 2 Multi-Effect Evaporator Set (with concentrator)	1966	N/A	5260 2605 3705	2610S1 2610S2	985.6 TBLS/day
07	5100	No. 3 Multi-Effect Evaporator Set (with concentrator)	1982/2012	Heat exchanger, condenser, and hotwell replacement	5260 2605 3705	2610S1 2610S2	1,077.5 TBLS/day
07	2722	Lime Kiln Oxygen Enrichment System: oxygen lance (inside kiln), oxygen storage tank, oxygen mixers (2), and piping	2010	N/A	None	2723	465 T CaO/day
08	2550	342-375×10^6 Btu/hr [1]Power Boiler (natural gas, No. 6 fuel oil)(225,000 lb/hr Maximum steaming rate on any fuel)	1959	N/A	2550C	2550S	342×10^6 Btu/hr (No.6 Fuel Oil) 375×10^6 Btu/hr (Natural Gas)
08	2605	392-405×10^6 Btu/hr [2] No. 1 Combination Boiler (natural gas, No. 6 fuel oil, bark, TDF) (275,000 lb/hr Maximum steaming rate (on mixed fuels): (Boiler, TRS gas cooler, TRS gas condenser, TRS mist eliminator, TRS gas reheater)	1959	N/A	2605C 2610C1	2610S2	292×10^6 Btu/hr (No. 6 Fuel Oil) 292×10^6 Btu/hr (Bark/Wood Waste) 405×10^6 Btu/hr (Natural Gas)

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	**19. Equipment ID**	**20. Equipment Description**	**21. Installation Date (Manufacturer Date and Original and Modification Date)**	**22. Modification Description**	**3. Control Device ID**	**17. Exhaust ID**	**23. Design Capacity (units)**
08	3705	420-720×10^6 Btu/hr [3] No. 2 Combination Boiler (natural gas, No. 6 fuel oil, bark, TDF)(500,000 lb/hr Maximum steaming rate (on oil or gas only) (Boiler, TRS gas cooler, TRS gas condenser, TRS mist eliminator, TRS gas reheater)	1968	N/A	3705C 2610C2	2610S1	498×10^6 Btu/hr (Bark/Wood Waste) 700×10^6 Btu/hr (No.6 Fuel Oil) 720×10^6 Btu/hr (Natural Gas)
08	5260	LVHC Collection System	2001	N/A	2605/3705	2610S1/2 Emergency Relief Valves: 24FL331 24FL336 24FL341 51FL262 26FL371	1,825 ADTUBP/day
08	5270	HVLC Collection System	2003	N/A	2605/3705	2610S1/2 Emergency Relief Valves: 52HS937 42FL967 52FL967	1,825 ADTUBP/day
08	5261/ 5271	Flame Arrestors, Mist Eliminators, Condensate Collection Tanks	2001/2003	System Upgrade	None	5261/ 5271	1,825 ADTUBP/day
09	2901	Mix Box	1959/1999	System Upgrade	N/A	2901	32.8 MGD
09	2901	Bar Screen	1959/1999	System Upgrade	N/A	2901	32.8 MGD
09	2901	Primary Clarifier	1959/1999	System Upgrade	N/A	2901	32.8 MGD
09	2901	Settling Pond	1959/1999	System Upgrade	N/A	2901	32.8 MGD
09	2901	Aerated Biotreatment	1959/1999	System Upgrade	N/A	2901	32.8 MGD
09	2901	Holding Basins	1959/1999	System Upgrade	N/A	2901	32.8 MGD
09	2901	Tertiary Treatment Plant	1959/1999	System Upgrade	N/A	2901	32.8 MGD

EQUIPMENT DESCRIPTION (For each emission unit please provide a description of the all equipment located at this facility)							
1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Manufacturer Date and Original and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
09	2902	No. 1 Holding Basin Pump No. 1 (345 hp Diesel Pump)	1988	N/A	N/A	2902	345 hp
09	2903	No. 1 Holding Basin Pump No. 2 (325 hp Diesel Pump)	1999	N/A	N/A	2903	325 hp
09	2904	Aerated Stabilization Basin Pump (200 hp Diesel Pump)	2001	N/A	N/A	2904	200 hp
09	2905	Tertiary Treatment Plant Pump (200 hp Diesel Pump)	2001	N/A	N/A	2905	200 hp
09	9800	180,000 gallon Condensate Collection Tank	1999	N/A	2605/3705	2610S1 2610S2	180,000 gallon
09	9801	800 gallon/minute Condensate Steam Stripper	2000	N/A	2605/3705	2610S1 2610S2	800 gallon/minute
09	9820	Stripper Off Gases (SOG)Collection System	2001	N/A	2605/3705	2610S1 2610S2	800 gallon/minute
10	M10-223	Methanol Tank	post 1984	N/A	N/A	1100	45,686 gallons
11	2900	Landfill	1959	N/A	N/A	2900	492,435 cubic yards (vertical expansion only)
11	1000	Road Activities	1959	N/A	N/A	1000	N/A
11	1000	Equipment Leaks & Cleaning Material usage	1959	N/A	N/A	1000	N/A
11	1000	Miscellaneous Material Usage	1959	N/A	N/A	1000	N/A

EQUIPMENT DESCRIPTION (CONTINUED)				
19. Equipment ID	24. Primary Fuel Combusted (If Applicable)	25. Secondary Fuel Combusted (If Applicable)	26. Construction Permit ID or Exemption Date (if applicable)	27. Comments (list special permit limitations, fuel info, etc.)
2010	Natural Gas	Propane and Kerosene	N/A	
4610	Natural Gas	Propane and Kerosene	N/A	3,000,000 gallons of kerosene per year and 475,000 gallons propane per year

EQUIPMENT DESCRIPTION (CONTINUED)				
19. Equipment ID	24. Primary Fuel Combusted (If Applicable)	25. Secondary Fuel Combusted (If Applicable)	26. Construction Permit ID or Exemption Date (if applicable)	27. Comments (list special permit limitations, fuel info, etc.)
4110	Natural Gas	Propane and Kerosene	2440-0005-CS	
4120	Natural Gas	Propane and Kerosene	2440-0005-CS	
4130	Natural Gas	Propane and Kerosene	2440-0005-CS	
9900	Natural Gas	Propane	2440-0005-CM	631,540,000 standard cubic feet of natural gas/year (total for all units) and 1,428,571 gallons propane per year (total for all units)
2505	Black Liquor Solids	No. 6 Fuel Oil	N/A	
5105	Black Liquor Solids	Natural Gas and No. 6 Fuel Oil	N/A	
2723	Natural Gas	No. 6 Fuel Oil	N/A	
2550	Natural Gas	No. 6 Fuel Oil	N/A	
2605	Bark/Wood Waste	Natural Gas, No. 6 Fuel Oil, Tire Derived Fuel, Specification Oil, Cores and Wastepaper	N/A	TDF use may not exceed 1.5 tons per hour of TDF (each boiler)
3705	Bark/Wood Waste	Natural Gas, No. 6 Fuel Oil, Tire Derived Fuel, Specification Oil, Cores and Wastepaper	N/A	TDF use may not exceed 1.5 tons per hour of TDF (each boiler)
2902	Diesel Fuel	N/A	2440-0005-CV	maximum operation of 7,000 hours per year
2903	Diesel Fuel	N/A	2440-0005-CU	
2904	Diesel Fuel	N/A	2440-0005-CU	
2905	Diesel Fuel	N/A	2440-0005-CU	

South Carolina Department of Health and Environmental Control

Title V Permit Application
Emission Data for Regulated Pollutants – Form D
Bureau of Air Quality

Please Refer to Instruction / Definitions Pages Before Completing This Form

1. Emission Unit ID: (If the emission unit is on the Insignificant Activity List proceed to Forms G & F)	2. Exhaust Point ID (if applicable)	3. Pollutant:	4. CAS Number (if applicable):	5. Type of Pollutant:	6. Maximum Uncontrolled		7. Maximum Controlled	
					(lb/hr)	(TPY)	(lb/hr)	(TPY)
See Alt Form D	See Alt Form D	See Alternative Form D	See Alternative Form D	See Alternative Form D	See Alt Form D	See Alt Form D	See Alt Form D	See Alt Form D

1. Emission Unit ID:	2. Exhaust Point ID (if applicable)	3. Pollutant:	8. Estimation Method:	9. Comments:
See Alt Form D	See Alt Form D	See Alternative Form D	See Alternative Form D	See Alternative Form D

Statement of Limitations

1. This emission inventory has been prepared for Resolute Forest Products for operations at the mill located in Catawba, South Carolina.

2. The primary purpose of the inventory is in support of the Title V Operating Permit Application Renewal and Annual Air Emission Inventory.

3. This inventory has been prepared using representative emission factors and other information developed from Resolute Forest Products, NCASI, EPA, and other paper industry information.

4. This emission factors and other information contained within this inventory are subject to periodic re-evaluation and revision.

5. This inventory may vary from air emissions statements and other air emission information prepared or submitted for other non-Title V air permitting purposes (e.g., EPA GHG Mandatory Reporting Rule, Resolute Forest Products GHG reporting, Form R reporting).

FUEL BURNING INSTALLATION, INCINERATOR, OR PROCESS EMISSION SOURCE	Title V Emission Unit ID	Title V Equipment Number	2011 Plant Operating Statistics	Units	MAXIMUM PRODUCTION RATE	MAXIMUM OPERATING DAYS	2011 ACTUAL PRODUCTION RATE	2011 ACTUAL OPERATING DAYS	PRODUCTION RATE UNITS	NOTES
Combination Boiler 1	**8**	**2605**								
Natural Gas			54,565.1	MM Btu	405.0	365	6.2	364.1	MM Btu/hr	
No. 6 Fuel Oil			353,211.5	gal	392.0	365	6.1	364.1	MM Btu/hr	
Bark			245,473.4	tons	392.0	365	254.4	361.8	MM Btu/hr	
Tire-Derived Fuel (TDF)			3,886.0	tons	1.5000	365	0.4	361.8	tons/hr	
Combination Boiler 2	**8**	**3705**								
Natural Gas			63,251.4	MM Btu	720.0	365	7.4	358.0	MM Btu/hr	
No. 6 Fuel Oil			563,722.5	gal	700.0	365	9.8	358.0	MM Btu/hr	
Bark			340,255.2	tons	498.0	365	358.9	355.5	MM Btu/hr	
Tire-Derived Fuel (TDF)			5,354.4	tons	1.5000	365	0.6	355.5	tons/hr	
Power Boiler	**8**	**2550**								
Natural Gas			10,767.8	MM Btu	375.0	365	13.8	32.5	MM Btu/hr	
No. 6 Fuel Oil			988,193.8	gal	342.0	365	190.3	32.5	MM Btu/hr	
Evaporators and Steam Stripper	**7 & 9**	**2405 & 9801**	5,446,897.6	lb BLS/day	3,169.0	365.0	2,723.4	348.8	Ton BLS/Day	
Recovery Furnace No. 2	**7**	**2505**								
No. 6 Fuel Oil			302,152.3	gal	360.0	365	5.3	353.7	MM Btu/hr	
Black Liquor Solids (BLS)			1,869,279.0	lb BLS/day	1,129.0	365	934.6	349.2	Ton BLS/Day	
							0.343			
Recovery Furnace 3	**7**	**5105**								
Natural Gas			1,533.8	MM Btu	370.0	365	0.2	352.5	MM Btu/hr	
No. 6 Fuel Oil			258,877.0	gal	360.0	365	4.6	352.5	MM Btu/hr	
Black Liquor Solids (BLS)			3,577,618.6	lb BLS/day	2,040.0	365	1,788.8	350.1	Ton BLS/Day	
							0.657			
Paper Mill										
Paper Mill - Paper Machine 1/Coater	**6**	**2000**								
Coated Paper			140,576.9	tons	470.8	365	406.4	345.9	ADTFP/Day	
Natural Gas			159,102.4	MM Btu	48.0	365	19.2	345.9	MM Btu/hr	
Propane			0.0	gal	48.0	365	-	345.9	MM Btu/hr	
Kerosene			4,554.0	gal	48.0	365	0.08	345.9	MM Btu/hr	
Paper Mill - Paper Machine 2/Coater	**6**	**4600**								
Coated Paper			225,445.4	tons	716.8	365	623.8	361.4	ADTFP/Day	
Natural Gas			262,388.5	MM Btu	64.0	365	30.3	361.4	MM Btu/hr	
Propane			0.0	gal	64.0	365	-	361.4	MM Btu/hr	
Kerosene			20,780.0	gal	64.0	365	0.33	361.4	MM Btu/hr	
Paper Mill - Paper Machine 3/Coater	**6**	**4100-4130**								
Coated Paper			331,097.1	tons	1,004.5	365	917.5	360.9	ADTFP/Day	
Natural Gas			268,978.3	MM Btu	47.7	365	31.1	360.9	MM Btu/hr	
Propane			0.0	gal	47.7	365	-	360.9	MM Btu/hr	
Kerosene			0.0	gal	47.7	365	0.00	360.9	MM Btu/hr	
Paper Mill - Pulp Dryer	**6**	**2100**								
Pulp			235,234.9	tons	811.9	365	720.5	326.5	ADTFP/Day	
Air Make-Up Units	**6**	**9900**								
Natural Gas			15,885.5	MM Btu	126.3	365	3.7	180	MM Btu	
Propane			0.0	gal	47.7	365	-	180	MM Btu/hr	
Kerosene			0.0	gal	47.7	365	-	180	MM Btu/hr	
Thermo Mechanical Pulping System	**5**	**4400**								
Pulp Total			207,894.2	tons	1,010.0	365	803.5	258.7	ADTP/Day	
TMP Bleaching System	**5**	**4400**								
Pulp Total			27,000.0	tons	375.0	365	104.4	258.7	ADTP/Day	
Chlorine Dioxide Plant	**4**	**1790**								
ClO_2			10,987.0	tons	40.0	365	31.3	351	T ClO2/Day	
Bleach Plant										
Bleached Pulp	**3**	**5300**	537,476.4	tons	1,752.0	365	1,529.7	351	ADTP/Day	
Kraft Pulp Mill										
Fiberline	**2**	**5200-5250**	565,764.6	ADTP/yr	1,825.0	365	1,610.2	351	ADTP/Day	
Smelt Tank 2	**7**	**2510**	1869279.0	lb BLS/day	1129.0	365.0	934.6	349	Ton BLS/Day	
Smelt Tank 3	**7**	**5110**	3577618.6	lb BLS/day	2040.0	365.0	1788.8	350	Ton BLS/Day	
Precipitator Mix Tanks	**7**	**2400**	5446897.6	lb BLS/day	3,169.0	365	2723.4	349	Ton BLS/Day	
Causticizing Area	**7**	**2700**			465	365	310.0	351	Ton CaO/Day	
Lime Kiln 2	**7**	**2723**			465	365	310.0	351	Ton CaO/Day	
Lime Slaker 2	**7**	**2700**			465	365	310.0	351	Ton CaO/Day	
Woodyard	**1**	**1300**	3,006,054.0	tons/yr	3,445,000	tons/yr		365	tons/day	
Waste Treatment Pumps	**9**	**2902-2905**	8	hours						

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
NCG Gases Summary	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 02. Equipment ID = All								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Condensible particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total paticulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Sulfur dioxide	7446095	Criteria						765.44	3,352.61	432.34	1,893.64	367.20	1,608.33
Volatile organic compounds (as carbon)		Criteria						571.18	2,501.78	11.42	50.04	9.70	42.50
Volatile organic compounds (as VOC)		Criteria						1,044.43	4,574.62	20.89	91.49	17.74	77.71
Carbon monoxide		Criteria						8.95	39.22	8.95	39.22	7.60	33.31
Lead		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen oxides		Criteria						54.58	239.07	54.58	239.07	46.36	203.05
Carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Biogenic carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Methane	74828	GHG, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Nitrous oxide	10024972	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Carbon dioxide equivalent		GHG						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						0.37	1.63	0.37	1.63	0.32	1.39
Hydrogen Sulfide	7783064	NSPS, TAP						139.68	611.81	1.40	6.12	1.19	5.20
Total Reduced Sulfur (as TRS)		NSPS						549.53	2,406.96	5.50	24.07	4.67	20.44
Total Reduced Sulfur (as Sulfur)		NSPS						383.04	1,677.71	3.83	16.78	3.25	14.25
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						406.98	1,782.56	4.07	17.83	3.46	15.14
Total 112(b) Hazardous Air Pollutants								1,325.88	5,807.37	27.53	120.59	23.38	102.42
1,1,1-Trichloroethane	71556	HAP						0.05	0.23	0.00	0.00	0.00	0.00
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.10	0.42	0.00	0.01	0.00	0.01
1,2-Dichloroethane	107062	HAP						0.02	0.10	0.00	0.00	0.00	0.00
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.32	1.39	0.01	0.03	0.01	0.02
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						9.77	42.78	0.20	0.86	0.17	0.73
Acetophenone	98862	HAP, TAP						0.22	0.97	0.00	0.02	0.00	0.02
Acrolein	107028	HAP, TAP, (112r)						0.16	0.70	0.00	0.01	0.00	0.01
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Arsenic Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Benzene	71432	HAP, TAP						0.06	0.25	0.00	0.00	0.00	0.00
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.06	0.27	0.00	0.01	0.00	0.00
Carbon tetrachloride	56235	HAP, TAP						0.11	0.48	0.00	0.01	0.00	0.01
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.08	0.37	0.00	0.01	0.00	0.01
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	108907	HAP, TAP						0.01	0.05	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.44	1.95	0.01	0.04	0.01	0.03
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cobalt Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						1.13	4.93	0.02	0.10	0.02	0.08
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.07	0.32	0.00	0.01	0.00	0.01
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.05	0.21	0.00	0.00	0.00	0.00
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						6.16	26.98	0.12	0.54	0.10	0.46
Hydrochloric acid	7647010	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen fluoride	7664393	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Manganese Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
m-Cresol	108394	HAP, TAP						0.93	4.06	0.02	0.08	0.02	0.07
Mercury Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Methanol	67561	HAP, TAP						1,284.82	5,627.50	25.70	112.55	21.82	95.59
Methyl ethyl ketone	78933	HAP, TAP						3.77	16.51	0.08	0.33	0.06	0.28
Methyl isobutyl ketone	108101	HAP, TAP						7.33	32.09	0.15	0.64	0.12	0.55
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.05	0.20	0.00	0.00	0.00	0.00
m-Xylene	108383	HAP, TAP						0.13	0.57	0.00	0.01	0.00	0.01
Naphthalene	91203	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
n-Hexane	110543	HAP, TAP						0.72	3.15	0.01	0.06	0.01	0.05
Nickel Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Cresol	95487	HAP, TAP						6.77	29.64	0.14	0.59	0.11	0.50
o-Xylene	95476	HAP, TAP						0.05	0.23	0.00	0.00	0.00	0.00
p-Cresol	106445	HAP, TAP						0.91	4.00	0.91	4.00	0.78	3.39

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
NCG Gases Summary	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 02. Equipment ID = All								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.55**	**2.41**	**0.01**	**0.05**	**0.01**	**0.04**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.12**	**0.53**	**0.12**	**0.53**	**0.10**	**0.45**
p-Xylene	106423	HAP, TAP						**0.13**	**0.57**	**0.00**	**0.01**	**0.00**	**0.01**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.17**	**0.74**	**0.00**	**0.01**	**0.00**	**0.01**
Tetrachloroethylene	127184	HAP, TAP						**0.11**	**0.48**	**0.00**	**0.01**	**0.00**	**0.01**
Toluene	108883	HAP, TAP						**0.43**	**1.89**	**0.01**	**0.04**	**0.01**	**0.03**
Trichloroethylene	79016	HAP, TAP						**0.09**	**0.39**	**0.00**	**0.01**	**0.00**	**0.01**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
HVLC Gases Summary	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 02. Equipment ID = 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Condensible particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total paticulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Sulfur dioxide	7446095	Criteria						44.10	193.18	29.77	130.39	25.29	110.75
Volatile organic compounds (as carbon)		Criteria						128.33	562.07	2.57	11.24	2.18	9.55
Volatile organic compounds (as VOC)		Criteria						210.95	923.95	4.22	18.48	3.58	15.69
Carbon monoxide		Criteria						3.42	14.99	3.42	14.99	2.91	12.73
Lead		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen oxides		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Biogenic carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Methane	74828	GHG, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Nitrous oxide	10024972	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Carbon dioxide equivalent		GHG						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen Sulfide	7783064	NSPS, TAP						0.51	2.22	0.01	0.02	0.00	0.02
Total Reduced Sulfur (as TRS)		NSPS						38.92	170.46	0.39	1.70	0.33	1.45
Total Reduced Sulfur (as Sulfur)		NSPS						22.05	96.59	0.22	0.97	0.19	0.82
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						23.43	102.62	0.23	1.03	0.20	0.87
Total 112(b) Hazardous Air Pollutants								124.29	544.39	3.50	15.33	2.97	13.02
1,1,1-Trichloroethane	71556	HAP						0.03	0.11	0.00	0.00	0.00	0.00
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.04	0.16	0.00	0.00	0.00	0.00
1,2-Dichloroethane	107062	HAP						0.02	0.07	0.00	0.00	0.00	0.00
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.13	0.56	0.00	0.01	0.00	0.01
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						1.40	6.14	0.03	0.12	0.02	0.10
Acetophenone	98862	HAP, TAP						0.22	0.97	0.00	0.02	0.00	0.02
Acrolein	107028	HAP, TAP, (112r)						0.01	0.07	0.00	0.00	0.00	0.00
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Arsenic Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Benzene	71432	HAP, TAP						0.01	0.05	0.00	0.00	0.00	0.00
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.06	0.27	0.00	0.01	0.00	0.00
Carbon tetrachloride	56235	HAP, TAP						0.10	0.43	0.00	0.01	0.00	0.01
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.08	0.37	0.00	0.01	0.00	0.01
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	108907	HAP, TAP						0.01	0.05	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.21	0.91	0.00	0.02	0.00	0.02
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cobalt Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						1.01	4.43	0.02	0.09	0.02	0.08
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.07	0.32	0.00	0.01	0.00	0.01
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.04	0.17	0.00	0.00	0.00	0.00
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						6.16	26.98	0.12	0.54	0.10	0.46
Hydrochloric acid	7647010	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen fluoride	7664393	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Manganese Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
m-Cresol	108394	HAP, TAP						0.93	4.06	0.02	0.08	0.02	0.07
Mercury Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Methanol	67561	HAP, TAP						104.58	458.06	2.09	9.16	1.78	7.78
Methyl ethyl ketone	78933	HAP, TAP						0.42	1.86	0.01	0.04	0.01	0.03
Methyl isobutyl ketone	108101	HAP, TAP						0.03	0.11	0.00	0.00	0.00	0.00
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.04	0.19	0.00	0.00	0.00	0.00
m-Xylene	108383	HAP, TAP						0.02	0.07	0.00	0.00	0.00	0.00
Naphthalene	91203	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
n-Hexane	110543	HAP, TAP						0.02	0.09	0.00	0.00	0.00	0.00
Nickel Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Cresol	95487	HAP, TAP						6.77	29.64	0.14	0.59	0.11	0.50
o-Xylene	95476	HAP, TAP						0.02	0.09	0.00	0.00	0.00	0.00
p-Cresol	106445	HAP, TAP						0.91	4.00	0.91	4.00	0.78	3.39

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
HVLC Gases Summary	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 02. Equipment ID = 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.55**	**2.41**	**0.01**	**0.05**	**0.01**	**0.04**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.12**	**0.53**	**0.12**	**0.53**	**0.10**	**0.45**
p-Xylene	106423	HAP, TAP						**0.02**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.05**	**0.20**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.10**	**0.44**	**0.00**	**0.01**	**0.00**	**0.01**
Toluene	108883	HAP, TAP						**0.03**	**0.12**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.09**	**0.38**	**0.00**	**0.01**	**0.00**	**0.01**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
LVHC Gases Summary	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 02. Equipment ID = 5260								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Condensible particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total paticulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Sulfur dioxide	7446095	Criteria						721.33	3,159.43	402.57	1,763.24	341.91	1,497.59
Volatile organic compounds (as carbon)		Criteria						442.86	1,939.71	8.86	38.79	7.52	32.95
Volatile organic compounds (as VOC)		Criteria						833.49	3,650.67	16.67	73.01	14.16	62.01
Carbon monoxide		Criteria						5.53	24.23	5.53	24.23	4.70	20.58
Lead		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen oxides		Criteria						54.58	239.07	54.58	239.07	46.36	203.05
Carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Biogenic carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Methane	74828	GHG, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Nitrous oxide	10024972	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Carbon dioxide equivalent		GHG						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						0.37	1.63	0.37	1.63	0.32	1.39
Hydrogen Sulfide	7783064	NSPS, TAP						139.18	609.59	1.39	6.10	1.18	5.18
Total Reduced Sulfur (as TRS)		NSPS						510.62	2,236.50	5.11	22.36	4.34	19.00
Total Reduced Sulfur (as Sulfur)		NSPS						360.99	1,581.12	3.61	15.81	3.07	13.43
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						383.55	1,679.94	3.84	16.80	3.26	14.27
Total 112(b) Hazardous Air Pollutants								1,201.59	5,262.98	24.03	105.26	20.41	89.40
1,1,1-Trichloroethane	71556	HAP						0.03	0.11	0.00	0.00	0.00	0.00
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.06	0.27	0.00	0.01	0.00	0.00
1,2-Dichloroethane	107062	HAP						0.01	0.03	0.00	0.00	0.00	0.00
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.19	0.83	0.00	0.02	0.00	0.01
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						8.36	36.64	0.17	0.73	0.14	0.62
Acetophenone	98862	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Acrolein	107028	HAP, TAP, (112r)						0.14	0.63	0.00	0.01	0.00	0.01
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Arsenic Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Benzene	71432	HAP, TAP						0.05	0.20	0.00	0.00	0.00	0.00
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Carbon tetrachloride	56235	HAP, TAP						0.01	0.05	0.00	0.00	0.00	0.00
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	108907	HAP, TAP						0.00	0.01	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.24	1.03	0.00	0.02	0.00	0.02
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cobalt Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						0.11	0.50	0.00	0.01	0.00	0.01
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.01	0.04	0.00	0.00	0.00	0.00
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen fluoride	7664393	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Manganese Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Methanol	67561	HAP, TAP						1,180.24	5,169.44	23.60	103.39	20.05	87.81
Methyl ethyl ketone	78933	HAP, TAP						3.35	14.65	0.07	0.29	0.06	0.25
Methyl isobutyl ketone	108101	HAP, TAP						7.30	31.97	0.15	0.64	0.12	0.54
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.00	0.01	0.00	0.00	0.00	0.00
m-Xylene	108383	HAP, TAP						0.11	0.50	0.00	0.01	0.00	0.01
Naphthalene	91203	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
n-Hexane	110543	HAP, TAP						0.70	3.06	0.01	0.06	0.01	0.05
Nickel Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Cresol	95487	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Xylene	95476	HAP, TAP						0.03	0.14	0.00	0.00	0.00	0.00
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
LVHC Gases Summary	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351

Detailed Process Unit Emissions entered into AEI

Title V Unit ID = 02. Equipment ID = 5260

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.11**	**0.50**	**0.00**	**0.01**	**0.00**	**0.01**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.12**	**0.53**	**0.00**	**0.01**	**0.00**	**0.01**
Tetrachloroethylene	127184	HAP, TAP						**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.40**	**1.77**	**0.01**	**0.04**	**0.01**	**0.03**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Digester Chip Bin	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 3								
Title V Unit ID = 02. Equipment ID = 5210, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	3.0E-01	#/ADTP	E	1	32.5%	**22.81**	**99.92**	**15.40**	**67.45**	**13.08**	**57.28**
Volatile organic compounds (as carbon)		Criteria	9.2E-01	#/ADTP	F	1	98%	**69.96**	**306.42**	**1.40**	**6.13**	**1.19**	**5.21**
Volatile organic compounds (as VOC)		Criteria	1.6E+00	#/ADTP	G	1	98%	**121.67**	**532.90**	**2.43**	**10.66**	**2.07**	**9.05**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	#/ADTP	A	1	99%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	2.7E-01	#/ADTP	C	1	99%	**20.76**	**90.93**	**0.21**	**0.91**	**0.18**	**0.77**
Total Reduced Sulfur (as Sulfur)		NSPS	1.5E-01	#/ADTP	A	1	99%	**11.41**	**49.96**	**0.11**	**0.50**	**0.10**	**0.42**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.6E-01	#/ADTP	D	1	99%	**12.12**	**53.08**	**0.12**	**0.53**	**0.10**	**0.45**
Total 112(b) Hazardous Air Pollutants								**1.14**	**5.00**	**0.02**	**0.10**	**0.02**	**0.08**
1,1,1-Trichloroethane	71556	HAP				1	98%						
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1	98%						
1,2-Dichloroethane	107062	HAP				1	98%						
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1	98%						
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1	98%						
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r)				1	98%						
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1	98%						
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP				1	98%						
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1	98%						
Chloroform	67663	HAP, TAP, (112r)				1	98%						
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1	98%						
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.5E-02	#/ADTP	A	1	98%	**1.14**	**5.00**	**0.02**	**0.10**	**0.02**	**0.08**
Methyl ethyl ketone	78933	HAP, TAP				1	98%						
Methyl isobutyl ketone	108101	HAP, TAP				1	98%						
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1	98%						
m-Xylene	108383	HAP, TAP				1	98%						
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1	98%						
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP				1	98%						
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Digester Chip Bin	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 3								
Title V Unit ID = 02. Equipment ID = 5210, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1	98%						
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1	98%						
Tetrachloroethylene	127184	HAP, TAP				1	98%						
Toluene	108883	HAP, TAP				1	98%						
Trichloroethylene	79016	HAP, TAP				1	98%						
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 9H - Continuous Digester.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler. No Uncontrolled Emissions.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.2 - adjusted from #/ton chips to #/ADTP assuming 50% yield.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Digester Relief Gas	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 3								
Title V Unit ID = 02. Equipment ID = 5210, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	8.4E-02	#/ADTP	E	1	32.5%	**6.39**	**27.98**	**4.31**	**18.88**	**3.66**	**16.04**
Volatile organic compounds (as carbon)		Criteria	1.6E-03	#/ADTP	B	1	98%	**0.12**	**0.53**	**0.00**	**0.01**	**0.00**	**0.01**
Volatile organic compounds (as VOC)		Criteria	3.1E-03	#/ADTP	A	1	98%	**0.24**	**1.03**	**0.00**	**0.02**	**0.00**	**0.02**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	3.6E-03	#/ADTP	A	1	99%	**0.27**	**1.20**	**0.00**	**0.01**	**0.00**	**0.01**
Total Reduced Sulfur (as TRS)		NSPS	6.9E-02	#/ADTP	C	1	99%	**5.23**	**22.91**	**0.05**	**0.23**	**0.04**	**0.19**
Total Reduced Sulfur (as Sulfur)		NSPS	4.2E-02	#/ADTP	A	1	99%	**3.19**	**13.99**	**0.03**	**0.14**	**0.03**	**0.12**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.5E-02	#/ADTP	D	1	99%	**3.39**	**14.86**	**0.03**	**0.15**	**0.03**	**0.13**
Total 112(b) Hazardous Air Pollutants								**0.11**	**0.47**	**0.00**	**0.01**	**0.00**	**0.01**
1,1,1-Trichloroethane	71556	HAP				1	98%						
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1	98%						
1,2-Dichloroethane	107062	HAP				1	98%						
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1	98%						
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1	98%						
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r)				1	98%						
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1	98%						
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP				1	98%						
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1	98%						
Chloroform	67663	HAP, TAP, (112r)				1	98%						
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1	98%						
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.4E-03	#/ADTP	A	1	98%	**0.11**	**0.47**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl ethyl ketone	78933	HAP, TAP				1	98%						
Methyl isobutyl ketone	108101	HAP, TAP				1	98%						
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1	98%						
m-Xylene	108383	HAP, TAP				1	98%						
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1	98%						
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP				1	98%						
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Digester Relief Gas	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 3								
Title V Unit ID = 02. Equipment ID = 5210, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1	98%						
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1	98%						
Tetrachloroethylene	127184	HAP, TAP				1	98%						
Toluene	108883	HAP, TAP				1	98%						
Trichloroethylene	79016	HAP, TAP				1	98%						
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 9A - Continuous Digester.
B) Emission factor adjusted from total VOC to VOC as carbon based on molecular weight of predominate VOC species.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Digester Blow Tank	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 3								
Title V Unit ID = 02. Equipment ID = 5210, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	3.8E-02	#/ADTP	E	1	32.5%	**2.89**	**12.66**	**1.95**	**8.54**	**1.66**	**7.26**
Volatile organic compounds (as carbon)		Criteria	3.5E-01	#/ADTP	F	1	98%	**26.61**	**116.57**	**0.53**	**2.33**	**0.45**	**1.98**
Volatile organic compounds (as VOC)		Criteria	4.1E-01	#/ADTP	G	1	98%	**31.18**	**136.56**	**0.62**	**2.73**	**0.53**	**2.32**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	3.2E-04	#/ADTP	A	1	99%	**0.02**	**0.11**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	3.5E-02	#/ADTP	C	1	99%	**2.63**	**11.54**	**0.03**	**0.12**	**0.02**	**0.10**
Total Reduced Sulfur (as Sulfur)		NSPS	1.9E-02	#/ADTP	A	1	99%	**1.44**	**6.33**	**0.01**	**0.06**	**0.01**	**0.05**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	2.0E-02	#/ADTP	D	1	99%	**1.54**	**6.72**	**0.02**	**0.07**	**0.01**	**0.06**
Total 112(b) Hazardous Air Pollutants								**0.85**	**3.74**	**0.02**	**0.07**	**0.01**	**0.06**
1,1,1-Trichloroethane	71556	HAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP				1	98%						
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1	98%						
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1	98%						
Acetophenone	98862	HAP, TAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r	5.0E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r	7.8E-04	#/ADTP	A	1	98%	**0.06**	**0.26**	**0.00**	**0.01**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	2.5E-04	#/ADTP	A	1	98%	**0.02**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1	98%						
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP	2.0E-04	#/ADTP	A	1	98%	**0.02**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	7.9E-03	#/ADTP	A	1	98%	**0.60**	**2.63**	**0.01**	**0.05**	**0.01**	**0.04**
Methyl ethyl ketone	78933	HAP, TAP	1.1E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Digester Blow Tank	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 3								
Title V Unit ID = 02. Equipment ID = 5210, 5270								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1	98%						
Tetrachloroethylene	127184	HAP, TAP				1	98%						
Toluene	108883	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 9B - Continuous Digester.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.2 - adjusted for evaporator emissions assuming 50/50 split with pulping.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Pressure Diffusion Washer	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 8								
Title V Unit ID = 02. Equipment ID = 5230, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	7.2E-02	#/ADTP	E	1	32.5%	**5.48**	**23.98**	**3.70**	**16.19**	**3.14**	**13.75**
Volatile organic compounds (as carbon)		Criteria	1.3E-01	#/ADTP	F	1	98%	**9.89**	**43.30**	**0.20**	**0.87**	**0.17**	**0.74**
Volatile organic compounds (as VOC)		Criteria	1.5E-01	#/ADTP	G	1	98%	**11.41**	**49.96**	**0.23**	**1.00**	**0.19**	**0.85**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	5.3E-05	#/ADTP	A	1	99%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	6.5E-02	#/ADTP	C	1	99%	**4.95**	**21.66**	**0.05**	**0.22**	**0.04**	**0.18**
Total Reduced Sulfur (as Sulfur)		NSPS	3.6E-02	#/ADTP	A	1	99%	**2.74**	**11.99**	**0.03**	**0.12**	**0.02**	**0.10**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.8E-02	#/ADTP	D	1	99%	**2.91**	**12.74**	**0.03**	**0.13**	**0.02**	**0.11**
Total 112(b) Hazardous Air Pollutants								**13.88**	**60.81**	**0.28**	**1.22**	**0.24**	**1.03**
1,1,1-Trichloroethane	71556	HAP	2.3E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	2.3E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	3.4E-04	#/ADTP	A	1	98%	**0.03**	**0.11**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.8E-03	#/ADTP	A	1	98%	**0.14**	**0.60**	**0.00**	**0.01**	**0.00**	**0.01**
Acetophenone	98862	HAP, TAP	1.8E-03	#/ADTP	A	1	98%	**0.14**	**0.60**	**0.00**	**0.01**	**0.00**	**0.01**
Acrolein	107028	HAP, TAP, (112r	4.5E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	8.3E-07	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r	4.0E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP	4.1E-04	#/ADTP	A	1	98%	**0.03**	**0.14**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r	1.1E-03	#/ADTP	A	1	98%	**0.08**	**0.37**	**0.00**	**0.01**	**0.00**	**0.01**
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	4.5E-07	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	6.9E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	2.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP	8.1E-02	#/ADTP	A	1	98%	**6.16**	**26.98**	**0.12**	**0.54**	**0.10**	**0.46**
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	8.1E-02	#/ADTP	A	1	98%	**6.16**	**26.98**	**0.12**	**0.54**	**0.10**	**0.46**
Methyl ethyl ketone	78933	HAP, TAP	1.3E-03	#/ADTP	A	1	98%	**0.10**	**0.43**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	6.5E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.1E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.4E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP	5.9E-03	#/ADTP	A	1	98%	**0.45**	**1.97**	**0.01**	**0.04**	**0.01**	**0.03**
o-Xylene	95476	HAP, TAP	6.1E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Pressure Diffusion Washer	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 8								
Title V Unit ID = 02. Equipment ID = 5230, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	6.4E-03	#/ADTP	A	1	98%	**0.49**	**2.13**	**0.01**	**0.04**	**0.01**	**0.04**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.4E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	1.6E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	6.8E-04	#/ADTP	A	1	98%	**0.05**	**0.23**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	2.8E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 7 - non-vacuum drum washers.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.6.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Knotters	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 5								
Title V Unit ID = 02. Equipment ID = 5250, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	2.6E-03	#/ADTP	E	1	32.5%	**0.20**	**0.87**	**0.13**	**0.58**	**0.11**	**0.50**
Volatile organic compounds (as carbon)		Criteria	5.0E-03	#/ADTP	F	1	98%	**0.38**	**1.67**	**0.01**	**0.03**	**0.01**	**0.03**
Volatile organic compounds (as VOC)		Criteria	1.1E-02	#/ADTP	G	1	98%	**0.84**	**3.66**	**0.02**	**0.07**	**0.01**	**0.06**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	#/ADTP	A	1	99%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	3.5E-03	#/ADTP	C	1	99%	**0.27**	**1.17**	**0.00**	**0.01**	**0.00**	**0.01**
Total Reduced Sulfur (as Sulfur)		NSPS	1.3E-03	#/ADTP	A	1	99%	**0.10**	**0.43**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.4E-03	#/ADTP	D	1	99%	**0.11**	**0.46**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**1.99**	**8.69**	**0.04**	**0.17**	**0.03**	**0.15**
1,1,1-Trichloroethane	71556	HAP	2.2E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	2.2E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	2.2E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	1.0E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	5.3E-04	#/ADTP	A	1	98%	**0.04**	**0.18**	**0.00**	**0.00**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r	9.0E-07	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	6.1E-07	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP	2.3E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	6.0E-07	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	8.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	2.5E-02	#/ADTP	A	1	98%	**1.90**	**8.33**	**0.04**	**0.17**	**0.03**	**0.14**
Methyl ethyl ketone	78933	HAP, TAP	3.6E-04	#/ADTP	A	1	98%	**0.03**	**0.12**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	4.2E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	2.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	1.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP	6.2E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Knotters	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 5								
Title V Unit ID = 02. Equipment ID = 5250, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	2.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.4E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	2.7E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.3E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	2.2E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 4.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.5.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Screens	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 5								
Title V Unit ID = 02. Equipment ID = 5250, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	1.8E-03	#/ADTP	E	1	32.5%	**0.14**	**0.60**	**0.09**	**0.40**	**0.08**	**0.34**
Volatile organic compounds (as carbon)		Criteria	4.0E-03	#/ADTP	F	1	98%	**0.30**	**1.33**	**0.01**	**0.03**	**0.01**	**0.02**
Volatile organic compounds (as VOC)		Criteria	1.0E-02	#/ADTP	G	1	98%	**0.76**	**3.33**	**0.02**	**0.07**	**0.01**	**0.06**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	#/ADTP	A	1	99%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	1.8E-03	#/ADTP	C	1	99%	**0.13**	**0.58**	**0.00**	**0.01**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS	9.0E-04	#/ADTP	A	1	99%	**0.07**	**0.30**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	9.6E-04	#/ADTP	D	1	99%	**0.07**	**0.32**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**17.62**	**77.19**	**0.35**	**1.54**	**0.30**	**1.31**
1,1,1-Trichloroethane	71556	HAP	1.5E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.5E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	1.5E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	4.9E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	8.0E-04	#/ADTP	A	1	98%	**0.06**	**0.27**	**0.00**	**0.01**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r	6.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	6.5E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP	4.0E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	4.0E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	5.0E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1	98%						
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	2.3E-01	#/ADTP	A	1	98%	**17.49**	**76.60**	**0.35**	**1.53**	**0.30**	**1.30**
Methyl ethyl ketone	78933	HAP, TAP	6.0E-04	#/ADTP	A	1	98%	**0.05**	**0.20**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	1.9E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	2.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1	98%						
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP	2.4E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Screens	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 5								
Title V Unit ID = 02. Equipment ID = 5250, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	9.1E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	1.8E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.6E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.4E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 5.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.5.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Decker	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 5								
Title V Unit ID = 02. Equipment ID = 5250, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	7.0E-02	#/ADTP	E	1	32.5%	**5.32**	**23.31**	**3.59**	**15.74**	**3.05**	**13.37**
Volatile organic compounds (as carbon)		Criteria	7.7E-02	#/ADTP	F	1	98%	**5.86**	**25.65**	**0.12**	**0.51**	**0.10**	**0.44**
Volatile organic compounds (as VOC)		Criteria	1.1E-01	#/ADTP	G	1	98%	**8.36**	**36.64**	**0.17**	**0.73**	**0.14**	**0.62**
		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	#/ADTP	A	1	99%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	5.6E-02	#/ADTP	C	1	99%	**4.24**	**18.56**	**0.04**	**0.19**	**0.04**	**0.16**
Total Reduced Sulfur (as Sulfur)		NSPS	3.5E-02	#/ADTP	A	1	99%	**2.66**	**11.66**	**0.03**	**0.12**	**0.02**	**0.10**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.7E-02	#/ADTP	D	1	99%	**2.83**	**12.39**	**0.03**	**0.12**	**0.02**	**0.11**
Total 112(b) Hazardous Air Pollutants								**6.54**	**28.64**	**1.14**	**5.01**	**0.97**	**4.26**
1,1,1-Trichloroethane	71556	HAP	6.0E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.0E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	6.0E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	1.1E-03	#/ADTP	A	1	98%	**0.08**	**0.37**	**0.00**	**0.01**	**0.00**	**0.01**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.3E-03	#/ADTP	A	1	98%	**0.17**	**0.77**	**0.00**	**0.02**	**0.00**	**0.01**
Acetophenone	98862	HAP, TAP	9.5E-04	#/ADTP	A	1	98%	**0.07**	**0.32**	**0.00**	**0.01**	**0.00**	**0.01**
Acrolein	107028	HAP, TAP, (112r	8.1E-05	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	5.8E-06	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP	2.9E-04	#/ADTP	A	1	98%	**0.02**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	2.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	2.2E-03	#/ADTP	A	1	98%	**0.17**	**0.73**	**0.00**	**0.01**	**0.00**	**0.01**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	3.2E-03	#/ADTP	A	1	98%	**0.24**	**1.07**	**0.00**	**0.02**	**0.00**	**0.02**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	8.5E-04	#/ADTP	A	1	98%	**0.06**	**0.28**	**0.00**	**0.01**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	7.0E-05	#/ADTP	A	1	98%	**0.01**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP	1.2E-02	#/ADTP	A	1	98%	**0.91**	**4.00**	**0.02**	**0.08**	**0.02**	**0.07**
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	3.5E-02	#/ADTP	A	1	98%	**2.66**	**11.66**	**0.05**	**0.23**	**0.05**	**0.20**
Methyl ethyl ketone	78933	HAP, TAP	1.5E-03	#/ADTP	A	1	98%	**0.11**	**0.50**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	7.7E-05	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	1.0E-04	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	5.5E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	2.5E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP	1.0E-02	#/ADTP	A	1	98%	**0.76**	**3.33**	**0.02**	**0.07**	**0.01**	**0.06**
o-Xylene	95476	HAP, TAP	5.3E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP	1.2E-02	#/ADTP	A	1		**0.91**	**4.00**	**0.91**	**4.00**	**0.78**	**3.39**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Decker	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 5								
Title V Unit ID = 02. Equipment ID = 5250, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	7.5E-04	#/ADTP	A	1	98%	**0.06**	**0.25**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	1.6E-03	#/ADTP	A	1		**0.12**	**0.53**	**0.12**	**0.53**	**0.10**	**0.45**
p-Xylene	106423	HAP, TAP	5.5E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.3E-04	#/ADTP	A	1	98%	**0.02**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	4.1E-04	#/ADTP	A	1	98%	**0.03**	**0.14**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	5.3E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	8.4E-04	#/ADTP	A	1	98%	**0.06**	**0.28**	**0.00**	**0.01**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 8.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.7.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Oxygen Delignification	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 7								
Title V Unit ID = 02. Equipment ID = 5240, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	1.2E-02	#/ADTP	E	1	32.5%	**0.88**	**3.86**	**0.60**	**2.61**	**0.51**	**2.21**
Volatile organic compounds (as carbon)		Criteria	2.0E-01	#/ADTP	F	1	98%	**15.21**	**66.61**	**0.30**	**1.33**	**0.26**	**1.13**
Volatile organic compounds (as VOC)		Criteria	4.8E-01	#/ADTP	G	1	98%	**36.50**	**159.87**	**0.73**	**3.20**	**0.62**	**2.72**
Carbon monoxide		Criteria	4.5E-02	#/ADTP	F	1		**3.42**	**14.99**	**3.42**	**14.99**	**2.91**	**12.73**
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	2.7E-03	#/ADTP	A	1	99%	**0.21**	**0.90**	**0.00**	**0.01**	**0.00**	**0.01**
Total Reduced Sulfur (as TRS)		NSPS	9.3E-03	#/ADTP	C	1	99%	**0.71**	**3.10**	**0.01**	**0.03**	**0.01**	**0.03**
Total Reduced Sulfur (as Sulfur)		NSPS	5.8E-03	#/ADTP	A	1	99%	**0.44**	**1.93**	**0.00**	**0.02**	**0.00**	**0.02**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	6.2E-03	#/ADTP	D	1	99%	**0.47**	**2.05**	**0.00**	**0.02**	**0.00**	**0.02**
Total 112(b) Hazardous Air Pollutants								**82.16**	**359.85**	**1.64**	**7.20**	**1.40**	**6.11**
1,1,1-Trichloroethane	71556	HAP	8.8E-05	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	2.4E-04	#/ADTP	A	1	98%	**0.02**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	3.5E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	1.8E-04	#/ADTP	A	1	98%	**0.01**	**0.06**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.3E-02	#/ADTP	A	1	98%	**0.99**	**4.33**	**0.02**	**0.09**	**0.02**	**0.07**
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r	1.4E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	2.4E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP	3.7E-04	#/ADTP	A	1	98%	**0.03**	**0.12**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.5E-05	#/ADTP	A	1	98%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	2.3E-04	#/ADTP	A	1	98%	**0.02**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	1.0E-02	#/ADTP	A	1	98%	**0.76**	**3.33**	**0.02**	**0.07**	**0.01**	**0.06**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.0E-04	#/ADTP	A	1	98%	**0.02**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	9.8E-01	#/ADTP	A	1	98%	**74.52**	**326.40**	**1.49**	**6.53**	**1.27**	**5.54**
Methyl ethyl ketone	78933	HAP, TAP	1.8E-03	#/ADTP	A	1	98%	**0.14**	**0.60**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	4.0E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	2.9E-04	#/ADTP	A	1	98%	**0.02**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	3.3E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP	7.3E-02	#/ADTP	A	1	98%	**5.55**	**24.31**	**0.11**	**0.49**	**0.09**	**0.41**
o-Xylene	95476	HAP, TAP	3.2E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Oxygen Delignification	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 7								
Title V Unit ID = 02. Equipment ID = 5240, 5270								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.6E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.1E-04	#/ADTP	A	1	98%	**0.02**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	2.0E-04	#/ADTP	A	1	98%	**0.02**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	6.1E-05	#/ADTP	A	1	98%	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.3E-04	#/ADTP	A	1	98%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP	1.1E-04	#/ADTP	A	1	98%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 3.
B) Emission factors from New Fiberline PSD Permit Application
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Turpentine recovery	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 6								
Title V Unit ID = 02. Equipment ID = 5220, 5260								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	6.0E-03	#/ADTP	E	1	66.25%	**0.46**	**2.00**	**0.15**	**0.67**	**0.13**	**0.57**
Volatile organic compounds (as carbon)		Criteria	3.5E-04	#/ADTP	B	1	98%	**0.03**	**0.12**	**0.00**	**0.00**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	9.2E-04	#/ADTP	A	1	98%	**0.07**	**0.31**	**0.00**	**0.01**	**0.00**	**0.01**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	2.5E-04	#/ADTP	A	1	99%	**0.02**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	5.0E-03	#/ADTP	C	1	99%	**0.38**	**1.65**	**0.00**	**0.02**	**0.00**	**0.01**
Total Reduced Sulfur (as Sulfur)		NSPS	3.0E-03	#/ADTP	A	1	99%	**0.23**	**1.00**	**0.00**	**0.01**	**0.00**	**0.01**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.2E-03	#/ADTP	D	1	99%	**0.24**	**1.06**	**0.00**	**0.01**	**0.00**	**0.01**
Total 112(b) Hazardous Air Pollutants								**0.07**	**0.31**	**0.00**	**0.01**	**0.00**	**0.01**
1,1,1-Trichloroethane	71556	HAP				1	98%						
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1	98%						
1,2-Dichloroethane	107062	HAP				1	98%						
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1	98%						
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1	98%						
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r)				1	98%						
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1	98%						
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP				1	98%						
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1	98%						
Chloroform	67663	HAP, TAP, (112r)				1	98%						
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1	98%						
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	9.2E-04	#/ADTP	A	1	98%	**0.07**	**0.31**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl ethyl ketone	78933	HAP, TAP				1	98%						
Methyl isobutyl ketone	108101	HAP, TAP				1	98%						
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1	98%						
m-Xylene	108383	HAP, TAP				1	98%						
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1	98%						
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP				1	98%						
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Turpentine recovery	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351
AEI Group ID = 002, Process Unit ID = 6								
Title V Unit ID = 02. Equipment ID = 5220, 5260								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1	98%						
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1	98%						
Tetrachloroethylene	127184	HAP, TAP				1	98%						
Toluene	108883	HAP, TAP				1	98%						
Trichloroethylene	79016	HAP, TAP				1	98%						
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 9I.
B) Emission factor adjusted from total VOC to VOC as carbon based on molecular weight of predominate VOC species.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Evaporators	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351

AEI Group ID = 007, Process Unit ID = 1

V Unit ID = 07. Equipment ID = 2400, 2500, 5100, 5260

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	3.28E+00	#/ADTP	E	1	66.25%	**249.42**	**1,092.45**	**84.18**	**368.70**	**71.50**	**313.15**
Volatile organic compounds (as carbon)		Criteria	1.8E-01	#/ADTP	F	1	98%	**13.96**	**61.12**	**0.28**	**1.22**	**0.24**	**1.04**
Volatile organic compounds (as VOC)		Criteria	4.9E-01	#/ADTP	B	1	98%	**37.26**	**163.20**	**0.75**	**3.26**	**0.63**	**2.77**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	9.1E-01	#/ADTP	B	1	99%	**69.20**	**303.09**	**0.69**	**3.03**	**0.59**	**2.57**
Total Reduced Sulfur (as TRS)		NSPS	2.13E+00	#/ADTP	C	1	99%	**161.97**	**709.42**	**1.62**	**7.09**	**1.38**	**6.03**
Total Reduced Sulfur (as Sulfur)		NSPS	1.64E+00	#/ADTP	B	1	99%	**125.03**	**547.63**	**1.25**	**5.48**	**1.06**	**4.65**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.75E+00	#/ADTP	D	1	99%	**132.84**	**581.85**	**1.33**	**5.82**	**1.13**	**4.94**
Total 112(b) Hazardous Air Pollutants								**37.49**	**164.20**	**0.75**	**3.28**	**0.64**	**2.79**
1,1,1-Trichloroethane	71556	HAP				1	98%						
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1	98%						
1,2-Dichloroethane	107062	HAP				1	98%						
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1	98%						
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1	98%						
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r)				1	98%						
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1	98%						
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP				1	98%						
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1	98%						
Chloroform	67663	HAP, TAP, (112r	1.5E-03	#/ADTP	A	1	98%	**0.11**	**0.50**	**0.00**	**0.01**	**0.00**	**0.01**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	1.5E-03	#/ADTP	A	1	98%	**0.11**	**0.50**	**0.00**	**0.01**	**0.00**	**0.01**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1	98%						
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	4.9E-01	#/ADTP	B	1	98%	**37.26**	**163.20**	**0.75**	**3.26**	**0.63**	**2.77**
Methyl ethyl ketone	78933	HAP, TAP				1	98%						
Methyl isobutyl ketone	108101	HAP, TAP				1	98%						
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1	98%						
m-Xylene	108383	HAP, TAP				1	98%						
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1	98%						
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP				1	98%						
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Evaporators	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351

AEI Group ID = 007, Process Unit ID = 1
V Unit ID = 07. Equipment ID = 2400, 2500, 5100, 5260

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1	98%						
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1	98%						
Tetrachloroethylene	127184	HAP, TAP				1	98%						
Toluene	108883	HAP, TAP				1	98%						
Trichloroethylene	79016	HAP, TAP				1	98%						
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 9C - Evaporators at Mills with Continuous Digesters.
B) Emission factors based on Bowater source testing September 11, 1996.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 50% removal of TRS in LVHC system scrubber and 100% conversion of TRS into SO2.
F) Emission factor adjusted from total VOC to VOC as carbon based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Condensate System	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351

AEI Group ID = 002, Process Unit ID = 4

Title V Unit ID = 09. Equipment ID = 9800, 9801, 9820

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria	6.2E+00	#/ADTP	E	1	32.5%	**471.46**	**2,064.99**	**318.23**	**1,393.87**	**270.29**	**1,183.86**
Volatile organic compounds (as carbon)		Criteria	5.64E+00	#/ADTP	H	1	98%	**428.88**	**1,878.47**	**8.58**	**37.57**	**7.29**	**31.91**
Volatile organic compounds (as VOC)		Criteria	1.05E+01	#/ADTP	A	1	98%	**796.16**	**3,487.16**	**15.92**	**69.74**	**13.52**	**59.24**
Carbon monoxide		Criteria	7.28E-02	#/ADTP	F	1		**5.53**	**24.23**	**5.53**	**24.23**	**4.70**	**20.58**
Lead		Criteria				1							
Nitrogen oxides		Criteria	7.18E-01	#/ADTP	F	1		**54.58**	**239.07**	**54.58**	**239.07**	**46.36**	**203.05**
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	4.9E-03	#/ADTP	G	1		**0.37**	**1.63**	**0.37**	**1.63**	**0.32**	**1.39**
Hydrogen Sulfide	7783064	NSPS, TAP	9.2E-01	#/ADTP	A	1	99%	**69.96**	**306.42**	**0.70**	**3.06**	**0.59**	**2.60**
Total Reduced Sulfur (as TRS)		NSPS	4.6E+00	#/ADTP	C	1	99%	**348.27**	**1,525.43**	**3.48**	**15.25**	**2.96**	**12.96**
Total Reduced Sulfur (as Sulfur)		NSPS	3.1E+00	#/ADTP	A	1	99%	**235.73**	**1,032.49**	**2.36**	**10.32**	**2.00**	**8.77**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.3E+00	#/ADTP	D	1	99%	**250.46**	**1,097.02**	**2.50**	**10.97**	**2.13**	**9.32**
Total 112(b) Hazardous Air Pollutants								**1,164.03**	**5,098.47**	**23.28**	**101.97**	**19.77**	**86.61**
1,1,1-Trichloroethane	71556	HAP	3.4E-04	#/ADTP	A	1	98%	**0.03**	**0.11**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	8.0E-04	#/ADTP	A	1	98%	**0.06**	**0.27**	**0.00**	**0.01**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	8.5E-05	#/ADTP	A	1	98%	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	2.5E-03	#/ADTP	A	1	98%	**0.19**	**0.83**	**0.00**	**0.02**	**0.00**	**0.01**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.1E-01	#/ADTP	A	1	98%	**8.36**	**36.64**	**0.17**	**0.73**	**0.14**	**0.62**
Acetophenone	98862	HAP, TAP				1	98%						
Acrolein	107028	HAP, TAP, (112r	1.9E-03	#/ADTP	A	1	98%	**0.14**	**0.63**	**0.00**	**0.01**	**0.00**	**0.01**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	6.1E-04	#/ADTP	A	1	98%	**0.05**	**0.20**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1	98%						
Carbon tetrachloride	56235	HAP, TAP	1.5E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1	98%						
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.8E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	1.6E-03	#/ADTP	A	1	98%	**0.12**	**0.53**	**0.00**	**0.01**	**0.00**	**0.01**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1	98%						
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1	98%						
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	1.2E-04	#/ADTP	A	1	98%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1	98%						
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1	98%						
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.50E+01	#/ADTP	B	1	98%	**1,142.91**	**5,005.93**	**22.86**	**100.12**	**19.41**	**85.03**
Methyl ethyl ketone	78933	HAP, TAP	4.4E-02	#/ADTP	A	1	98%	**3.35**	**14.65**	**0.07**	**0.29**	**0.06**	**0.25**
Methyl isobutyl ketone	108101	HAP, TAP	9.6E-02	#/ADTP	A	1	98%	**7.30**	**31.97**	**0.15**	**0.64**	**0.12**	**0.54**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.0E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.5E-03	#/ADTP	A	1	98%	**0.11**	**0.50**	**0.00**	**0.01**	**0.00**	**0.01**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	9.2E-03	#/ADTP	A	1	98%	**0.70**	**3.06**	**0.01**	**0.06**	**0.01**	**0.05**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1	98%						
o-Xylene	95476	HAP, TAP	4.2E-04	#/ADTP	A	1	98%	**0.03**	**0.14**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Condensate System	1,825	ADTP/Day	1,610	ADTP/Day	24	7	365	351

AEI Group ID = 002, Process Unit ID = 4
Title V Unit ID = 09. Equipment ID = 9800, 9801, 9820

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1	98%						
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.5E-03	#/ADTP	A	1	98%	**0.11**	**0.50**	**0.00**	**0.01**	**0.00**	**0.01**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	1.6E-03	#/ADTP	A	1	98%	**0.12**	**0.53**	**0.00**	**0.01**	**0.00**	**0.01**
Tetrachloroethylene	127184	HAP, TAP	1.4E-04	#/ADTP	A	1	98%	**0.01**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	5.3E-03	#/ADTP	A	1	98%	**0.40**	**1.77**	**0.01**	**0.04**	**0.01**	**0.03**
Trichloroethylene	79016	HAP, TAP	2.1E-05	#/ADTP	A	1	98%	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1	98%						

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 9D - Condensate Stripper at Mills with Batch Digesters (no factors for Mills Continuous Digester).
B) Emission factor based on Bowater MACT compliance demonstration December 2003.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Assumed 100% conversion of TRS (as S) to SO2 in Combination Boiler.
F) Emission factor from NCASI Technical Bulletin 884, Table 4.4 - adjusted to ADTP using actual 2004 condensate flow and production.
G) Emission factor from NCASI Technical Bulletin 858, Table 10 - Thermal Oxidizers.
H) Emission factor adjusted from total VOC to VOC as carbon based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Woodyard	3,445,000	tons/yr	3,006,054	tons/yr				
AEI Group ID = 001, Process Unit ID = 10								
Title V Unit ID = 01. Equipment ID = 1300								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter					A	1		**23.97**	**105.00**	**23.97**	**105.00**	**20.92**	**91.62**
Filterable particulate matter < 10 microns		Criteria			C	1		**3.60**	**15.75**	**3.60**	**15.75**	**3.14**	**13.74**
Filterable particulate matter < 2.5 microns		Criteria			C	1		**0.24**	**1.05**	**0.24**	**1.05**	**0.21**	**0.92**
Condensible particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total paticulate matter						1		**23.97**	**105.00**	**23.97**	**105.00**	**20.92**	**91.62**
Total particulate matter < 10 microns		Criteria				1		**3.60**	**15.75**	**3.60**	**15.75**	**3.14**	**13.74**
Total particulate matter < 2.5 microns		Criteria				1		**0.24**	**1.05**	**0.24**	**1.05**	**0.21**	**0.92**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria			B	1							
Volatile organic compounds (as VOC)		Criteria			B	1							
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Woodyard	3,445,000	tons/yr	3,006,054	tons/yr				
AEI Group ID = 001, Process Unit ID = 10								
Title V Unit ID = 01. Equipment ID = 1300								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Calculations in Title V application.
B) No accurate or reliable data availble to estimate VOC emissions from woodyard activities (see Title V).
C) PM-10 and PM-2.5 ratio based on AP-42, Appendix B-2, Category 6.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
New Bleaching System	1,752	ADTP/Day	1,530	ADTP/Day	24	7	365	351
AEI Group ID = 003, Process Unit ID = 2								
Title V Unit ID = 03. Equipment ID = 5300								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1							
Total particulate matter < 10 microns		Criteria				1							
Total particulate matter < 2.5 microns		Criteria				1							
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	5.0E-02	#/ODTP	B	1		**3.29**	**14.39**	**3.29**	**14.39**	**2.76**	**12.09**
Volatile organic compounds (as VOC)		Criteria	2.7E-01	#/ODTP	E	1		**17.74**	**77.70**	**17.74**	**77.70**	**14.91**	**65.30**
Carbon monoxide		Criteria	8.9E-01	#/ODTP	B	1		**58.54**	**256.40**	**58.54**	**256.40**	**49.20**	**215.50**
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r	1.2E-02	#/ADTP	H	1	95%	**18.10**	**79.30**	**0.91**	**3.96**	**0.76**	**3.33**
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS	4.4E-03	#/ADTP	C	1		**0.32**	**1.41**	**0.32**	**1.41**	**0.27**	**1.18**
Total Reduced Sulfur (as Sulfur)		NSPS	2.8E-03	#/ADTP	A	1		**0.20**	**0.90**	**0.20**	**0.90**	**0.17**	**0.75**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.0E-03	#/ADTP	D	1		**0.22**	**0.95**	**0.22**	**0.95**	**0.18**	**0.80**
Total 112(b) Hazardous Air Pollutants								**18.36**	**80.43**	**17.44**	**76.38**	**14.66**	**64.19**
1,1,1-Trichloroethane	71556	HAP	1.4E-05	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.1E-05	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	1.9E-05	#/ADTP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	6.0E-05	#/ADTP	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.02**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.0E-03	#/ADTP	A	1		**0.07**	**0.32**	**0.07**	**0.32**	**0.06**	**0.27**
Acetophenone	98862	HAP, TAP	1.8E-05	#/ADTP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r	2.3E-06	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	4.6E-06	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	4.5E-07	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	6.7E-04	#/ADTP	H	1	95%	**0.97**	**4.27**	**0.05**	**0.21**	**0.04**	**0.18**
Chlorobenzene	108907	HAP, TAP	1.3E-05	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	7.4E-02	#/ADTP	A	1		**5.40**	**23.66**	**5.40**	**23.66**	**4.54**	**19.89**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	1.2E-05	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.0E-06	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.5E-04	#/ADTP	A	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.09**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP	1.4E-03	#/ADTP	A	1		**0.10**	**0.45**	**0.10**	**0.45**	**0.09**	**0.38**
Hexachloroethane	67721	HAP, TAP	1.9E-03	#/ADTP	A	1		**0.14**	**0.61**	**0.14**	**0.61**	**0.12**	**0.51**
Hydrochloric acid	7647010	HAP, TAP, (112r	2.3E-02	#/ADTP	A	1		**1.68**	**7.35**	**1.68**	**7.35**	**1.41**	**6.18**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP	4.3E-03	#/ADTP	A	1		**0.31**	**1.37**	**0.31**	**1.37**	**0.26**	**1.16**
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.3E-01	#/ADTP	A	1		**9.49**	**41.57**	**9.49**	**41.57**	**7.98**	**34.94**
Methyl ethyl ketone	78933	HAP, TAP	2.7E-04	#/ADTP	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.07**
Methyl isobutyl ketone	108101	HAP, TAP	3.7E-05	#/ADTP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.5E-05	#/ADTP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
m-Xylene	108383	HAP, TAP	8.1E-06	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	8.6E-07	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP	5.3E-04	#/ADTP	A	1		**0.04**	**0.17**	**0.04**	**0.17**	**0.03**	**0.14**
o-Xylene	95476	HAP, TAP	1.0E-05	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
New Bleaching System	1,752	ADTP/Day	1,530	ADTP/Day	24	7	365	351
AEI Group ID = 003, Process Unit ID = 2								
Title V Unit ID = 03. Equipment ID = 5300								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	2.8E-04	#/ADTP	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.08**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	5.2E-04	#/ADTP	A	1		**0.04**	**0.17**	**0.04**	**0.17**	**0.03**	**0.14**
p-Xylene	106423	HAP, TAP	8.1E-06	#/ADTP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	1.7E-04	#/ADTP	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.05**
Tetrachloroethylene	127184	HAP, TAP	9.1E-05	#/ADTP	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Toluene	108883	HAP, TAP	1.6E-05	#/ADTP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	3.7E-05	#/ADTP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP	7.1E-05	#/ADTP	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.02**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin No. 858, Table 2A.
B) Emission factor from NCASI Technical Bulletin 884, Table 4.9.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

H) Emission factor from Bowater stack test February 2004.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Chlorine Dioxide Generating Plant	40	T ClO2/Day	31	T ClO2/Day	24	7	365	351
AEI Group ID = 004, Process Unit ID = 1								
Title V Unit ID = 04. Equipment ID = 1790								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.69E-02	#/T ClO2	B	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.09**
Volatile organic compounds (as VOC)		Criteria	6.00E-02	#/T ClO2	E	1		**0.10**	**0.44**	**0.10**	**0.44**	**0.08**	**0.33**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r	3.20E-02	#/T ClO2	D	1	92%	**0.67**	**2.92**	**0.05**	**0.23**	**0.04**	**0.18**
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.05**	**0.23**	**0.05**	**0.23**	**0.04**	**0.17**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.43E-03	#/T ClO2	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	0.00E+00	#/T ClO2	D	1	88%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r	8.89E-03	#/T ClO2	A	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.27E-03	#/T ClO2	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.52E-02	#/T ClO2	A	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.08**
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	1.10E-04	#/T ClO2	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Chlorine Dioxide Generating Plant	40	T ClO2/Day	31	T ClO2/Day	24	7	365	351
AEI Group ID = 004, Process Unit ID = 1								
Title V Unit ID = 04. Equipment ID = 1790								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	3.56E-04	#/T ClO2	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Highest average emission factors from NCASI Technical Bulletin No. 677, ClO2 Generators with scrubbers at mills E, K and N.
B) Highest average emission factors from NCASI Technical Bulletin No. 677 (THC - method 25A), ClO2 Generators with scrubbers at mills E, K and N.
C) Emission Limit from Permit 2440-0005-CJ, Condition II.A.
D) Emission factor from Bowater stack test conducted November 1997.
E) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Thermo Mechanical Pulping System	1,010	ADTP/Day	803.5	ADTP/Day	24	7	365	259
AEI Group ID = 005, Process Unit ID = 1								
Title V Unit ID = 05. Equipment ID = 4400								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.67E+00	#/ODTP	B	1		**63.25**	**277.04**	**63.25**	**277.04**	**35.67**	**156.23**
Volatile organic compounds (as VOC)		Criteria	2.04E+00	#/ODTP	C	1		**77.27**	**338.42**	**77.27**	**338.42**	**43.57**	**190.85**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**9.85**	**43.16**	**9.85**	**43.16**	**5.56**	**24.34**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.20E-02	#/ODTP	A	1		**0.83**	**3.65**	**0.83**	**3.65**	**0.47**	**2.06**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP	1.40E-02	#/ODTP	A	1		**0.53**	**2.32**	**0.53**	**2.32**	**0.30**	**1.31**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r	1.20E-02	#/ODTP	A	1		**0.45**	**1.99**	**0.45**	**1.99**	**0.26**	**1.12**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r	1.60E-03	#/ODTP	A	1		**0.06**	**0.27**	**0.06**	**0.27**	**0.03**	**0.15**
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	2.70E-02	#/ODTP	A	1		**1.02**	**4.48**	**1.02**	**4.48**	**0.58**	**2.53**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	1.50E-03	#/ODTP	A	1		**0.06**	**0.25**	**0.06**	**0.25**	**0.03**	**0.14**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.50E-01	#/ODTP	A	1		**5.68**	**24.88**	**5.68**	**24.88**	**3.20**	**14.03**
Methyl ethyl ketone	78933	HAP, TAP	9.60E-04	#/ODTP	A	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.02**	**0.09**
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	3.40E-03	#/ODTP	A	1		**0.13**	**0.56**	**0.13**	**0.56**	**0.07**	**0.32**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Thermo Mechanical Pulping System	1,010	ADTP/Day	803.5	ADTP/Day	24	7	365	259
AEI Group ID = 005, Process Unit ID = 1								
Title V Unit ID = 05. Equipment ID = 4400								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	1.20E-02	#/ODTP	A	1		**0.45**	**1.99**	**0.45**	**1.99**	**0.26**	**1.12**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	1.40E-02	#/ODTP	A	1		**0.53**	**2.32**	**0.53**	**2.32**	**0.30**	**1.31**
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	1.70E-03	#/ODTP	A	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.04**	**0.16**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Average emission factors from NCASI Technical Bulletin No. 738, TMP vents at Mill RR.
B) Emission factor from February 2001 PSD Permit Application.
C) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors converted from ADTP to ODTP assuming 0.9 ODTP/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
TMP Bleaching System	375	ADTP/Day	104.4	ADTP/Day	24	7	365	259
AEI Group ID = 005, Process Unit ID = 1								
Title V Unit ID = 05. Equipment ID = 4400								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	4.70E-02	#/ADTP	C	1		**0.73**	**3.22**	**0.73**	**3.22**	**0.14**	**0.63**
Volatile organic compounds (as VOC)		Criteria	1.20E-01	#/ADTP	B	1		**1.88**	**8.21**	**1.88**	**8.21**	**0.37**	**1.62**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.80**	**7.88**	**1.80**	**7.88**	**0.35**	**1.55**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP	5.40E-04	#/ADTP	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.40E-03	#/ADTP	A	1		**0.07**	**0.30**	**0.07**	**0.30**	**0.01**	**0.06**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.10E-01	#/ADTP	A	1		**1.72**	**7.54**	**1.72**	**7.54**	**0.34**	**1.49**
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
TMP Bleaching System	375	ADTP/Day	104.4	ADTP/Day	24	7	365	259
AEI Group ID = 005, Process Unit ID = 1								
Title V Unit ID = 05. Equipment ID = 4400								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Average emission factors from NCASI FPAC Study.
B) Emission factor from December 2004 Construction Permit Application.
C) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors converted from ADTP to ODTP assuming 0.9 ODTP/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = All								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								**3.09**	**13.54**	**3.09**	**13.54**	**0.77**	**3.39**
Filterable particulate matter < 10 microns		Criteria						**1.91**	**8.36**	**1.91**	**8.36**	**0.77**	**3.37**
Filterable particulate matter < 2.5 microns		Criteria						**1.08**	**4.73**	**1.08**	**4.73**	**0.77**	**3.36**
Condensible particulate matter < 2.5 microns		Criteria						**1.98**	**8.66**	**1.98**	**8.66**	**0.83**	**3.63**
Total paticulate matter								**5.07**	**22.20**	**5.07**	**22.20**	**1.60**	**7.01**
Total particulate matter < 10 microns		Criteria						**3.89**	**17.02**	**3.89**	**17.02**	**1.60**	**7.00**
Total particulate matter < 2.5 microns		Criteria						**3.00**	**13.13**	**3.00**	**13.13**	**1.60**	**6.99**
Sulfur dioxide	7446095	Criteria						**8.40**	**36.79**	**8.40**	**36.79**	**0.07**	**0.30**
Volatile organic compounds (as carbon)		Criteria						**20.81**	**91.15**	**20.81**	**91.15**	**16.76**	**73.39**
Volatile organic compounds (as VOC)		Criteria						**46.49**	**203.65**	**46.49**	**203.65**	**36.76**	**160.99**
Carbon monoxide		Criteria						**13.41**	**58.76**	**13.41**	**58.76**	**6.64**	**29.06**
Lead		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria						**23.66**	**103.63**	**23.66**	**103.63**	**7.94**	**34.78**
Carbon dioxide	124389	GHG						**26,475.84**	**115,964.17**	**26,475.84**	**115,964.17**	**9,278.81**	**40,641.18**
Biogenic carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)						**1.06**	**4.63**	**1.06**	**4.63**	**0.18**	**0.77**
Nitrous oxide	10024972	GHG						**0.21**	**0.93**	**0.21**	**0.93**	**0.02**	**0.08**
Carbon dioxide equivalent		GHG						**26,563.50**	**116,348.15**	**26,563.50**	**116,348.15**	**9,288.06**	**40,681.71**
Chlorine dioxide	10049044	112r						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfuric acid mist	7664939	TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS						**0.33**	**1.47**	**0.33**	**1.47**	**0.27**	**1.16**
Total Reduced Sulfur (as Sulfur)		NSPS						**0.22**	**0.98**	**0.22**	**0.98**	**0.18**	**0.78**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.24**	**1.04**	**0.24**	**1.04**	**0.19**	**0.82**
Total 112(b) Hazardous Air Pollutants								**12.48**	**54.68**	**12.48**	**54.68**	**10.32**	**45.20**
1,1,1-Trichloroethane	71556	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2,4-Trichlorobenzene	120821	HAP						**0.71**	**3.11**	**0.71**	**3.11**	**0.56**	**2.47**
1,4-Dichlorobenzene	106467	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r)						**1.49**	**6.52**	**1.49**	**6.52**	**1.25**	**5.49**
Acetophenone	98862	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r)						**0.04**	**0.19**	**0.04**	**0.19**	**0.03**	**0.15**
Acrylonitrile	107131	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP						**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.09**
Benzyl chloride	100447	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP						**0.37**	**1.64**	**0.37**	**1.64**	**0.33**	**1.43**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)						**0.22**	**0.96**	**0.22**	**0.96**	**0.19**	**0.84**
Carbon tetrachloride	56235	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Catechol	120809	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP						**0.06**	**0.25**	**0.06**	**0.25**	**0.05**	**0.20**
Chloroform	67663	HAP, TAP, (112r)						**0.06**	**0.28**	**0.06**	**0.28**	**0.05**	**0.24**
Chloromethane	74873	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r)						**0.06**	**0.28**	**0.06**	**0.28**	**0.03**	**0.14**
Glycol Ethers		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachloroethane	67721	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen fluoride	7664393	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Iodomethane	74884	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP						**7.38**	**32.31**	**7.38**	**32.31**	**6.17**	**27.01**
Methyl ethyl ketone	78933	HAP, TAP						**0.07**	**0.33**	**0.07**	**0.33**	**0.06**	**0.26**
Methyl isobutyl ketone	108101	HAP, TAP						**0.10**	**0.46**	**0.10**	**0.46**	**0.08**	**0.36**
Methyl hydrazine	60334	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP						**0.19**	**0.84**	**0.19**	**0.84**	**0.17**	**0.73**
m-Xylene	108383	HAP, TAP						**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.14**
Naphthalene	91203	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP						**0.29**	**1.26**	**0.29**	**1.26**	**0.14**	**0.62**
Nickel Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP						**0.06**	**0.27**	**0.06**	**0.27**	**0.05**	**0.21**
p-Cresol	106445	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = All								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.81**	**3.56**	**0.81**	**3.56**	**0.71**	**3.10**
p-Xylene	106423	HAP, TAP						**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.14**
Selenium Compounds		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.18**	**0.77**	**0.18**	**0.77**	**0.14**	**0.61**
Tetrachloroethylene	127184	HAP, TAP						**0.16**	**0.68**	**0.16**	**0.68**	**0.12**	**0.54**
Toluene	108883	HAP, TAP						**0.02**	**0.10**	**0.02**	**0.10**	**0.01**	**0.05**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.10**	**0.44**	**0.10**	**0.44**	**0.08**	**0.35**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 2000 - 2010								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								**0.82**	**3.61**	**0.82**	**3.61**	**0.13**	**0.56**
Filterable particulate matter < 10 microns		Criteria						**0.47**	**2.06**	**0.47**	**2.06**	**0.13**	**0.56**
Filterable particulate matter < 2.5 microns		Criteria						**0.22**	**0.96**	**0.22**	**0.96**	**0.13**	**0.56**
Condensible particulate matter < 2.5 microns		Criteria						**0.46**	**2.02**	**0.46**	**2.02**	**0.10**	**0.46**
Total paticulate matter								**1.29**	**5.64**	**1.29**	**5.64**	**0.23**	**1.02**
Total particulate matter < 10 microns		Criteria						**0.93**	**4.08**	**0.93**	**4.08**	**0.23**	**1.02**
Total particulate matter < 2.5 microns		Criteria						**0.66**	**2.91**	**0.66**	**2.91**	**0.23**	**1.02**
Sulfur dioxide	7446095	Criteria						**2.52**	**11.06**	**2.52**	**11.06**	**0.01**	**0.06**
Volatile organic compounds (as carbon)		Criteria						**3.87**	**16.93**	**3.87**	**16.93**	**2.83**	**12.39**
Volatile organic compounds (as VOC)		Criteria						**7.60**	**33.30**	**7.60**	**33.30**	**5.39**	**23.59**
Carbon monoxide		Criteria						**4.03**	**17.66**	**4.03**	**17.66**	**1.53**	**6.69**
Lead		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria						**7.11**	**31.15**	**7.11**	**31.15**	**1.83**	**8.00**
Carbon dioxide	124389	GHG						**7,957.67**	**34,854.60**	**7,957.67**	**34,854.60**	**2,134.76**	**9,350.23**
Biogenic carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)						**0.32**	**1.39**	**0.32**	**1.39**	**0.04**	**0.18**
Nitrous oxide	10024972	GHG						**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.02**
Carbon dioxide equivalent		GHG						**7,984.02**	**34,970.01**	**7,984.02**	**34,970.01**	**2,136.88**	**9,359.52**
Chlorine dioxide	10049044	112r						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfuric acid mist	7664939	TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**1.52**	**6.68**	**1.52**	**6.68**	**1.20**	**5.26**
1,1,1-Trichloroethane	71556	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2,4-Trichlorobenzene	120821	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r)						**0.20**	**0.86**	**0.20**	**0.86**	**0.16**	**0.70**
Acetophenone	98862	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP						**0.08**	**0.35**	**0.08**	**0.35**	**0.07**	**0.29**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)						**0.05**	**0.21**	**0.05**	**0.21**	**0.04**	**0.17**
Carbon tetrachloride	56235	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Catechol	120809	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r)						**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Chloromethane	74873	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r)						**0.02**	**0.08**	**0.02**	**0.08**	**0.01**	**0.03**
Glycol Ethers		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachloroethane	67721	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen fluoride	7664393	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Iodomethane	74884	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP						**0.86**	**3.78**	**0.86**	**3.78**	**0.71**	**3.09**
Methyl ethyl ketone	78933	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP						**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.15**
m-Xylene	108383	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP						**0.09**	**0.38**	**0.09**	**0.38**	**0.03**	**0.14**
Nickel Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 2000 - 2010								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.17**	**0.76**	**0.17**	**0.76**	**0.14**	**0.63**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 4600 - 4610								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								**1.12**	**4.91**	**1.12**	**4.91**	**0.21**	**0.92**
Filterable particulate matter < 10 microns		Criteria						**0.65**	**2.84**	**0.65**	**2.84**	**0.21**	**0.91**
Filterable particulate matter < 2.5 microns		Criteria						**0.31**	**1.38**	**0.31**	**1.38**	**0.21**	**0.91**
Condensible particulate matter < 2.5 microns		Criteria						**0.62**	**2.70**	**0.62**	**2.70**	**0.17**	**0.76**
Total paticulate matter								**1.74**	**7.61**	**1.74**	**7.61**	**0.38**	**1.69**
Total particulate matter < 10 microns		Criteria						**1.26**	**5.53**	**1.26**	**5.53**	**0.38**	**1.68**
Total particulate matter < 2.5 microns		Criteria						**0.91**	**3.98**	**0.91**	**3.98**	**0.38**	**1.67**
Sulfur dioxide	7446095	Criteria						**3.37**	**14.74**	**3.37**	**14.74**	**0.04**	**0.15**
Volatile organic compounds (as carbon)		Criteria						**5.78**	**25.34**	**5.78**	**25.34**	**4.54**	**19.89**
Volatile organic compounds (as VOC)		Criteria						**11.33**	**49.61**	**11.33**	**49.61**	**8.65**	**37.88**
Carbon monoxide		Criteria						**5.38**	**23.55**	**5.38**	**23.55**	**2.53**	**11.07**
Lead		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria						**9.48**	**41.53**	**9.48**	**41.53**	**3.04**	**13.33**
Carbon dioxide	124389	GHG						**10,610.23**	**46,472.80**	**10,610.23**	**46,472.80**	**3,555.00**	**15,570.90**
Biogenic carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)						**0.42**	**1.85**	**0.42**	**1.85**	**0.07**	**0.30**
Nitrous oxide	10024972	GHG						**0.08**	**0.37**	**0.08**	**0.37**	**0.01**	**0.03**
Carbon dioxide equivalent		GHG						**10,645.36**	**46,626.68**	**10,645.36**	**46,626.68**	**3,558.61**	**15,586.72**
Chlorine dioxide	10049044	112r						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfuric acid mist	7664939	TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**2.30**	**10.08**	**2.30**	**10.08**	**1.93**	**8.45**
1,1,1-Trichloroethane	71556	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2,4-Trichlorobenzene	120821	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r)						**0.30**	**1.31**	**0.30**	**1.31**	**0.26**	**1.13**
Acetophenone	98862	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP						**0.12**	**0.54**	**0.12**	**0.54**	**0.11**	**0.46**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)						**0.07**	**0.31**	**0.07**	**0.31**	**0.06**	**0.27**
Carbon tetrachloride	56235	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Catechol	120809	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r)						**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.08**
Chloromethane	74873	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r)						**0.02**	**0.11**	**0.02**	**0.11**	**0.01**	**0.05**
Glycol Ethers		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachloroethane	67721	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen fluoride	7664393	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Iodomethane	74884	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP						**1.31**	**5.76**	**1.31**	**5.76**	**1.13**	**4.96**
Methyl ethyl ketone	78933	HAP, TAP						**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.02**
Methyl isobutyl ketone	108101	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP						**0.06**	**0.27**	**0.06**	**0.27**	**0.05**	**0.24**
m-Xylene	108383	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP						**0.12**	**0.50**	**0.12**	**0.50**	**0.05**	**0.24**
Nickel Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 4600 - 4610								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.27**	**1.16**	**0.27**	**1.16**	**0.23**	**1.00**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 4100 - 4130								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								**0.95**	**4.16**	**0.95**	**4.16**	**0.28**	**1.22**
Filterable particulate matter < 10 microns		Criteria						**0.60**	**2.61**	**0.60**	**2.61**	**0.28**	**1.22**
Filterable particulate matter < 2.5 microns		Criteria						**0.35**	**1.52**	**0.35**	**1.52**	**0.28**	**1.22**
Condensible particulate matter < 2.5 microns		Criteria						**0.70**	**3.08**	**0.70**	**3.08**	**0.39**	**1.73**
Total paticulate matter								**1.65**	**7.23**	**1.65**	**7.23**	**0.67**	**2.94**
Total particulate matter < 10 microns		Criteria						**1.30**	**5.69**	**1.30**	**5.69**	**0.67**	**2.94**
Total particulate matter < 2.5 microns		Criteria						**1.03**	**4.53**	**1.03**	**4.53**	**0.67**	**2.94**
Sulfur dioxide	7446095	Criteria						**2.51**	**10.99**	**2.51**	**10.99**	**0.02**	**0.08**
Volatile organic compounds (as carbon)		Criteria						**7.64**	**33.47**	**7.64**	**33.47**	**6.59**	**28.88**
Volatile organic compounds (as VOC)		Criteria						**14.71**	**64.43**	**14.71**	**64.43**	**12.52**	**54.82**
Carbon monoxide		Criteria						**4.01**	**17.55**	**4.01**	**17.55**	**2.58**	**11.30**
Lead		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria						**7.07**	**30.95**	**7.07**	**30.95**	**3.07**	**13.45**
Carbon dioxide	124389	GHG						**7,907.94**	**34,636.76**	**7,907.94**	**34,636.76**	**3,589.05**	**15,720.05**
Biogenic carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)						**0.32**	**1.38**	**0.32**	**1.38**	**0.07**	**0.30**
Nitrous oxide	10024972	GHG						**0.06**	**0.28**	**0.06**	**0.28**	**0.01**	**0.03**
Carbon dioxide equivalent		GHG						**7,934.12**	**34,751.45**	**7,934.12**	**34,751.45**	**3,592.57**	**15,735.47**
Chlorine dioxide	10049044	112r						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfuric acid mist	7664939	TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**3.13**	**13.73**	**3.13**	**13.73**	**2.80**	**12.28**
1,1,1-Trichloroethane	71556	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2,4-Trichlorobenzene	120821	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r)						**0.42**	**1.83**	**0.42**	**1.83**	**0.38**	**1.66**
Acetophenone	98862	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP						**0.17**	**0.75**	**0.17**	**0.75**	**0.15**	**0.68**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)						**0.10**	**0.44**	**0.10**	**0.44**	**0.09**	**0.40**
Carbon tetrachloride	56235	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Catechol	120809	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r)						**0.03**	**0.13**	**0.03**	**0.13**	**0.03**	**0.11**
Chloromethane	74873	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r)						**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
Glycol Ethers		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachloroethane	67721	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen fluoride	7664393	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Iodomethane	74884	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP						**1.84**	**8.07**	**1.84**	**8.07**	**1.66**	**7.28**
Methyl ethyl ketone	78933	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Methyl isobutyl ketone	108101	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP						**0.09**	**0.38**	**0.09**	**0.38**	**0.08**	**0.35**
m-Xylene	108383	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP						**0.09**	**0.38**	**0.09**	**0.38**	**0.06**	**0.24**
Nickel Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 4100 - 4130								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.37**	**1.63**	**0.37**	**1.63**	**0.34**	**1.47**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Paper Machine 1 - Process	471	ADTFP/Day	406	ADTFP/Day	24	7	365	346
AEI Group ID = 006, Process Unit ID = 1								
Title V Unit ID = 06. Equipment ID = 2000, 2005								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			5.80E-03	#/ADTFP	C	1		**0.11**	**0.50**	**0.11**	**0.50**	**0.09**	**0.41**
Filterable particulate matter < 10 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.11**	**0.50**	**0.11**	**0.50**	**0.09**	**0.41**
Filterable particulate matter < 2.5 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.11**	**0.50**	**0.11**	**0.50**	**0.09**	**0.41**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.11**	**0.50**	**0.11**	**0.50**	**0.09**	**0.41**
Total particulate matter < 10 microns		Criteria				1		**0.11**	**0.50**	**0.11**	**0.50**	**0.09**	**0.41**
Total particulate matter < 2.5 microns		Criteria				1		**0.11**	**0.50**	**0.11**	**0.50**	**0.09**	**0.41**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.70E-01	#/ADTFP	A	1		**3.33**	**14.61**	**3.33**	**14.61**	**2.73**	**11.95**
Volatile organic compounds (as VOC)		Criteria	3.20E-01	#/ADTFP	B	1		**6.28**	**27.50**	**6.28**	**27.50**	**5.14**	**22.49**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.42**	**6.23**	**1.42**	**6.23**	**1.16**	**5.09**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.00E-02	#/ADTFP	A	1		**0.20**	**0.86**	**0.20**	**0.86**	**0.16**	**0.70**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP	4.10E-03	#/ADTFP	A	1		**0.08**	**0.35**	**0.08**	**0.35**	**0.07**	**0.29**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r	2.40E-03	#/ADTFP	A	1		**0.05**	**0.21**	**0.05**	**0.21**	**0.04**	**0.17**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r	6.90E-04	#/ADTFP	A	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	7.20E-05	#/ADTFP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	4.40E-02	#/ADTFP	A	1		**0.86**	**3.78**	**0.86**	**3.78**	**0.71**	**3.09**
Methyl ethyl ketone	78933	HAP, TAP	1.50E-04	#/ADTFP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	2.10E-03		A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.15**
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Paper Machine 1 - Process	471	ADTFP/Day	406	ADTFP/Day	24	7	365	346
AEI Group ID = 006, Process Unit ID = 1								
Title V Unit ID = 06. Equipment ID = 2000, 2005								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	8.90E-03	#/ADTFP	A	1		**0.17**	**0.76**	**0.17**	**0.76**	**0.14**	**0.63**
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.80E-05	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin No. 740, Newsprint Paper Machines at Mill RR.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Emission factor from NCASI Technical Blletin No. 884.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Coater - Natural Gas Firing	48	MM Btu/hr	19	MM Btu/hr	24	7	365	346
AEI Group ID = 006, Process Unit ID = 7								
Title V Unit ID = 06. Equipment ID = 2010								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.03**	**0.15**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.03**	**0.15**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.03**	**0.15**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**0.27**	**1.20**	**0.27**	**1.20**	**0.10**	**0.45**
Total paticulate matter						1		**0.36**	**1.60**	**0.36**	**1.60**	**0.14**	**0.60**
Total particulate matter < 10 microns		Criteria				1		**0.36**	**1.60**	**0.36**	**1.60**	**0.14**	**0.60**
Total particulate matter < 2.5 microns		Criteria				1		**0.36**	**1.60**	**0.36**	**1.60**	**0.14**	**0.60**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.01**	**0.05**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**0.26**	**1.16**	**0.26**	**1.16**	**0.10**	**0.44**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**0.66**	**2.89**	**0.66**	**2.89**	**0.25**	**1.09**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**4.03**	**17.66**	**4.03**	**17.66**	**1.53**	**6.68**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	1.00E-01	#/MM Btu	A	1		**4.80**	**21.02**	**4.80**	**21.02**	**1.82**	**7.96**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**5,610.58**	**24,574.35**	**5,610.58**	**24,574.35**	**2,122.95**	**9,298.51**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.04**	**0.18**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.02**
Carbon dioxide equivalent					J	1		**5,616.08**	**24,598.45**	**5,616.08**	**24,598.45**	**2,125.03**	**9,307.63**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.10**	**0.45**	**0.10**	**0.45**	**0.04**	**0.17**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.03**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.09**	**0.38**	**0.09**	**0.38**	**0.03**	**0.14**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Coater - Natural Gas Firing	48	MM Btu/hr	19	MM Btu/hr	24	7	365	346
AEI Group ID = 006, Process Unit ID = 7								
Title V Unit ID = 06. Equipment ID = 2010								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Small Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Coater - Propane Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	346
AEI Group ID = 006, Process Unit ID = 8								
Title V Unit ID = 06. Equipment ID = 2010								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			2.21E-03	#/MM Btu	A	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	5.52E-03	#/MM Btu	A	1		**0.27**	**1.16**	**0.27**	**1.16**	**0.00**	**0.00**
Total paticulate matter						1		**0.37**	**1.63**	**0.37**	**1.63**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.37**	**1.63**	**0.37**	**1.63**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.37**	**1.63**	**0.37**	**1.63**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	1.99E-04	#/MM Btu	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	1.10E-02	#/MM Btu	A	1		**0.53**	**2.32**	**0.53**	**2.32**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.10E-02	#/MM Btu	C	2.5		**1.33**	**5.81**	**1.33**	**5.81**	**0.00**	**0.00**
Carbon monoxide		Criteria	8.29E-02	#/MM Btu	A	1		**3.98**	**17.42**	**3.98**	**17.42**	**0.00**	**0.00**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.44E-01	#/MM Btu	A	1		**6.90**	**30.20**	**6.90**	**30.20**	**0.00**	**0.00**
Carbon dioxide	124389	GHG	6.15E+01	kg/MM Btu	D	1		**6,503.70**	**28,486.22**	**6,503.70**	**28,486.22**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	D	1		**0.32**	**1.39**	**0.32**	**1.39**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	D	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			E	1		**6,530.05**	**28,601.63**	**6,530.05**	**28,601.63**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Coater - Propane Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	346
AEI Group ID = 006, Process Unit ID = 8								
Title V Unit ID = 06. Equipment ID = 2010								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Propane-fired Industrial Boilers - Table 1.5-1.
B) All particulate matter assumed to be less than 2.5, consistent with AP-42..
C) Primary VOC assumed to be formaldehyde.
D) Emission factor for propane combustion in EPA MRR, Table C-1 and C-2.
E) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons propane to #/MM Btu assuming 90,500 Btu/gallon propane.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Coater - Kerosene Firing	48	MM Btu/hr	0.1	MM Btu/hr	24	7	365	346
AEI Group ID = 006, Process Unit ID = 9								
Title V Unit ID = 06. Equipment ID = 2010								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.48E-02	#/MM Btu	A	1		**0.71**	**3.11**	**0.71**	**3.11**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	7.41E-03	#/MM Btu	B	1		**0.36**	**1.56**	**0.36**	**1.56**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	1.85E-03	#/MM Btu	B	1		**0.09**	**0.39**	**0.09**	**0.39**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	9.63E-03	#/MM Btu	C	1		**0.46**	**2.02**	**0.46**	**2.02**	**0.00**	**0.00**
Total paticulate matter						1		**1.17**	**5.14**	**1.17**	**5.14**	**0.00**	**0.01**
Total particulate matter < 10 microns		Criteria				1		**0.82**	**3.58**	**0.82**	**3.58**	**0.00**	**0.01**
Total particulate matter < 2.5 microns		Criteria				1		**0.55**	**2.41**	**0.55**	**2.41**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	5.26E-02	#/MM Btu	A	1		**2.52**	**11.06**	**2.52**	**11.06**	**0.00**	**0.02**
Volatile organic compounds (as carbon)		Criteria	1.48E-03	#/MM Btu	D	1		**0.07**	**0.31**	**0.07**	**0.31**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.48E-03	#/MM Btu	H	2.5		**0.18**	**0.78**	**0.18**	**0.78**	**0.00**	**0.00**
Carbon monoxide		Criteria	3.70E-02	#/MM Btu	A	1		**1.78**	**7.79**	**1.78**	**7.79**	**0.00**	**0.01**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.48E-01	#/MM Btu	A	1		**7.11**	**31.15**	**7.11**	**31.15**	**0.01**	**0.05**
Carbon dioxide	124389	GHG	7.52E+01	kg/MM Btu	I	1		**7,957.67**	**34,854.60**	**7,957.67**	**34,854.60**	**11.81**	**51.72**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**0.32**	**1.39**	**0.32**	**1.39**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**7,984.02**	**34,970.01**	**7,984.02**	**34,970.01**	**11.85**	**51.89**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.02**	**0.11**	**0.02**	**0.11**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP	1.75E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	4.00E-06	#/MM Btu	G	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	1.59E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP	3.00E-06	#/MM Btu	G	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.71E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.56E-04	#/MM Btu	E	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	9.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	6.00E-06	#/MM Btu	G	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	3.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	8.37E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 1 - Coater - Kerosene Firing	48	MM Btu/hr	0.1	MM Btu/hr	24	7	365	346
AEI Group ID = 006, Process Unit ID = 9								
Title V Unit ID = 06. Equipment ID = 2010								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP	8.07E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP	2.44E-05	#/MM Btu	E	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.50E-05	#/MM Btu	G	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.59E-05	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-1.
B) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-6.
C) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-2.
D) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-3.
E) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers - Table 1.3-8.
F) Emission factors from AP-42 for Uncontrolled Residual Oil-fired Boilers - Table 1.3-9.
G) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Utility Boilers - Table 1.3-10.
H) Primary VOC assumed to be formaldehyde.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons kerosene to #/MM Btu assuming 135,000 Btu/gallon kerosene.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Paper Machine 2 - Process	717	ADTFP/Day	624	ADTFP/Day	24	7	365	361
AEI Group ID = 006, Process Unit ID = 2								
Title V Unit ID = 06. Equipment ID = 4600, 4605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			5.80E-03	#/ADTFP	C	1		**0.17**	**0.76**	**0.17**	**0.76**	**0.15**	**0.65**
Filterable particulate matter < 10 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.17**	**0.76**	**0.17**	**0.76**	**0.15**	**0.65**
Filterable particulate matter < 2.5 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.17**	**0.76**	**0.17**	**0.76**	**0.15**	**0.65**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.17**	**0.76**	**0.17**	**0.76**	**0.15**	**0.65**
Total particulate matter < 10 microns		Criteria				1		**0.17**	**0.76**	**0.17**	**0.76**	**0.15**	**0.65**
Total particulate matter < 2.5 microns		Criteria				1		**0.17**	**0.76**	**0.17**	**0.76**	**0.15**	**0.65**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.70E-01	#/ADTFP	A	1		**5.08**	**22.24**	**5.08**	**22.24**	**4.38**	**19.16**
Volatile organic compounds (as VOC)		Criteria	3.20E-01	#/ADTFP	B	1		**9.56**	**41.86**	**9.56**	**41.86**	**8.24**	**36.07**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**2.16**	**9.48**	**2.16**	**9.48**	**1.86**	**8.17**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.00E-02	#/ADTFP	A	1		**0.30**	**1.31**	**0.30**	**1.31**	**0.26**	**1.13**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP	4.10E-03	#/ADTFP	A	1		**0.12**	**0.54**	**0.12**	**0.54**	**0.11**	**0.46**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r	2.40E-03		A	1		**0.07**	**0.31**	**0.07**	**0.31**	**0.06**	**0.27**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r	6.90E-04	#/ADTFP	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.08**
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	7.20E-05	#/ADTFP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	4.40E-02	#/ADTFP	A	1		**1.31**	**5.76**	**1.31**	**5.76**	**1.13**	**4.96**
Methyl ethyl ketone	78933	HAP, TAP	1.50E-04	#/ADTFP	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.02**
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	2.10E-03		A	1		**0.06**	**0.27**	**0.06**	**0.27**	**0.05**	**0.24**
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Paper Machine 2 - Process	717	ADTFP/Day	624	ADTFP/Day	24	7	365	361
AEI Group ID = 006, Process Unit ID = 2								
Title V Unit ID = 06. Equipment ID = 4600, 4605								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	8.90E-03	#/ADTFP	A	1		**0.27**	**1.16**	**0.27**	**1.16**	**0.23**	**1.00**
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.80E-05	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin No. 740, Newsprint Paper Machines at Mill RR.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Emission factor from NCASI Technical Blletin No. 884.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Coater - Natural Gas Firing	64	MM Btu/hr	30	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 7								
Title V Unit ID = 06. Equipment ID = 4610								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.12**	**0.53**	**0.12**	**0.53**	**0.06**	**0.25**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.12**	**0.53**	**0.12**	**0.53**	**0.06**	**0.25**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.12**	**0.53**	**0.12**	**0.53**	**0.06**	**0.25**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**0.36**	**1.60**	**0.36**	**1.60**	**0.17**	**0.75**
Total paticulate matter						1		**0.49**	**2.13**	**0.49**	**2.13**	**0.23**	**1.00**
Total particulate matter < 10 microns		Criteria				1		**0.49**	**2.13**	**0.49**	**2.13**	**0.23**	**1.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.49**	**2.13**	**0.49**	**2.13**	**0.23**	**1.00**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.04**	**0.17**	**0.04**	**0.17**	**0.02**	**0.08**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**0.35**	**1.54**	**0.35**	**1.54**	**0.16**	**0.72**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**0.88**	**3.85**	**0.88**	**3.85**	**0.41**	**1.80**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**5.38**	**23.55**	**5.38**	**23.55**	**2.52**	**11.02**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	1.00E-01	#/MM Btu	A	1		**6.40**	**28.03**	**6.40**	**28.03**	**3.00**	**13.12**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**7,480.78**	**32,765.80**	**7,480.78**	**32,765.80**	**3,501.12**	**15,334.92**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.14**	**0.62**	**0.14**	**0.62**	**0.07**	**0.29**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.03**
Carbon dioxide equivalent		GHG			J	1		**7,488.11**	**32,797.93**	**7,488.11**	**32,797.93**	**3,504.56**	**15,349.96**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.14**	**0.60**	**0.14**	**0.60**	**0.06**	**0.28**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.04**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.12**	**0.50**	**0.12**	**0.50**	**0.05**	**0.24**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Coater - Natural Gas Firing	64	MM Btu/hr	30	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 7								
Title V Unit ID = 06. Equipment ID = 4610								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Small Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Coater - Propane Firing	64	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 8								
Title V Unit ID = 06. Equipment ID = 4610								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			2.21E-03	#/MM Btu	A	1		**0.14**	**0.62**	**0.14**	**0.62**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.14**	**0.62**	**0.14**	**0.62**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.14**	**0.62**	**0.14**	**0.62**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	5.52E-03	#/MM Btu	B	1		**0.35**	**1.55**	**0.35**	**1.55**	**0.00**	**0.00**
Total paticulate matter						1		**0.50**	**2.17**	**0.50**	**2.17**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.50**	**2.17**	**0.50**	**2.17**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.50**	**2.17**	**0.50**	**2.17**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	1.99E-04	#/MM Btu	A	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	1.10E-02	#/MM Btu	A	1		**0.71**	**3.10**	**0.71**	**3.10**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.10E-02	#/MM Btu	C	2.5		**1.77**	**7.74**	**1.77**	**7.74**	**0.00**	**0.00**
Carbon monoxide		Criteria	8.29E-02	#/MM Btu	A	1		**5.30**	**23.23**	**5.30**	**23.23**	**0.00**	**0.00**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.44E-01	#/MM Btu	A	1		**9.19**	**40.27**	**9.19**	**40.27**	**0.00**	**0.00**
Carbon dioxide	124389	GHG	6.15E+01	kg/MM Btu	D	1		**8,671.60**	**37,981.63**	**8,671.60**	**37,981.63**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	D	1		**0.42**	**1.85**	**0.42**	**1.85**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	D	1		**0.08**	**0.37**	**0.08**	**0.37**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			E	1		**8,706.74**	**38,135.51**	**8,706.74**	**38,135.51**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Coater - Propane Firing	64	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 8								
Title V Unit ID = 06. Equipment ID = 4610								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Propane-fired Industrial Boilers - Table 1.5-1.
B) All particulate matter assumed to be less than 2.5, consistent with AP-42..
C) Primary VOC assumed to be formaldehyde.
D) Emission factor for propane combustion in EPA MRR, Table C-1 and C-2.
E) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons propane to #/MM Btu assuming 90,500 Btu/gallon propane.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Coater - Kerosene Firing	64	MM Btu/hr	0.3	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 9								
Title V Unit ID = 06. Equipment ID = 4610								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.48E-02	#/MM Btu	A	1		**0.95**	**4.15**	**0.95**	**4.15**	**0.00**	**0.02**
Filterable particulate matter < 10 microns		Criteria	7.41E-03	#/MM Btu	B	1		**0.47**	**2.08**	**0.47**	**2.08**	**0.00**	**0.01**
Filterable particulate matter < 2.5 microns		Criteria	1.85E-03	#/MM Btu	B	1		**0.12**	**0.52**	**0.12**	**0.52**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	9.63E-03	#/MM Btu	C	1		**0.62**	**2.70**	**0.62**	**2.70**	**0.00**	**0.01**
Total paticulate matter						1		**1.56**	**6.85**	**1.56**	**6.85**	**0.01**	**0.03**
Total particulate matter < 10 microns		Criteria				1		**1.09**	**4.78**	**1.09**	**4.78**	**0.01**	**0.02**
Total particulate matter < 2.5 microns		Criteria				1		**0.73**	**3.22**	**0.73**	**3.22**	**0.00**	**0.02**
Sulfur dioxide	7446095	Criteria	5.26E-02	#/MM Btu	A	1		**3.37**	**14.74**	**3.37**	**14.74**	**0.02**	**0.07**
Volatile organic compounds (as carbon)		Criteria	1.48E-03	#/MM Btu	D	1		**0.09**	**0.42**	**0.09**	**0.42**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.48E-03	#/MM Btu	H	2.5		**0.24**	**1.04**	**0.24**	**1.04**	**0.00**	**0.01**
Carbon monoxide		Criteria	3.70E-02	#/MM Btu	A	1		**2.37**	**10.38**	**2.37**	**10.38**	**0.01**	**0.05**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.48E-01	#/MM Btu	A	1		**9.48**	**41.53**	**9.48**	**41.53**	**0.05**	**0.21**
Carbon dioxide	124389	GHG	7.52E+01	kg/MM Btu	I	1		**10,610.23**	**46,472.80**	**10,610.23**	**46,472.80**	**53.88**	**235.98**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**0.42**	**1.85**	**0.42**	**1.85**	**0.00**	**0.01**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.08**	**0.37**	**0.08**	**0.37**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**10,645.36**	**46,626.68**	**10,645.36**	**46,626.68**	**54.06**	**236.76**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.03**	**0.14**	**0.03**	**0.14**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP	1.75E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	4.00E-06	#/MM Btu	G	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	1.59E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP	3.00E-06	#/MM Btu	G	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.71E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.56E-04	#/MM Btu	E	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	9.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	6.00E-06	#/MM Btu	G	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	3.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	8.37E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 2 - Coater - Kerosene Firing	64	MM Btu/hr	0.3	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 9								
Title V Unit ID = 06. Equipment ID = 4610								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP	8.07E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP	2.44E-05	#/MM Btu	E	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.50E-05	#/MM Btu	G	1.41		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.59E-05	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-1.
B) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-6.
C) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-2.
D) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-3.
E) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers - Table 1.3-8.
F) Emission factors from AP-42 for Uncontrolled Residual Oil-fired Boilers - Table 1.3-9.
G) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Utility Boilers - Table 1.3-10.
H) Primary VOC assumed to be formaldehyde.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons kerosene to #/MM Btu assuming 135,000 Btu/gallon kerosene.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Paper Machine 3	1,005	ADTFP/Day	917	ADTFP/Day	24	7	365	361
AEI Group ID = 006, Process Unit ID = 3								
Title V Unit ID = 06. Equipment ID = 4100								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			5.80E-03	#/ADTFP	C	1		**0.24**	**1.06**	**0.24**	**1.06**	**0.22**	**0.96**
Filterable particulate matter < 10 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.24**	**1.06**	**0.24**	**1.06**	**0.22**	**0.96**
Filterable particulate matter < 2.5 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.24**	**1.06**	**0.24**	**1.06**	**0.22**	**0.96**
Condensible particulate matter < 2.5 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.24**	**1.06**	**0.24**	**1.06**	**0.22**	**0.96**
Total paticulate matter						1		**0.49**	**2.13**	**0.49**	**2.13**	**0.44**	**1.92**
Total particulate matter < 10 microns		Criteria				1		**0.49**	**2.13**	**0.49**	**2.13**	**0.44**	**1.92**
Total particulate matter < 2.5 microns		Criteria				1		**0.49**	**2.13**	**0.49**	**2.13**	**0.44**	**1.92**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.70E-01	#/ADTFP	A	1		**7.12**	**31.16**	**7.12**	**31.16**	**6.43**	**28.14**
Volatile organic compounds (as VOC)		Criteria	3.20E-01	#/ADTFP	B	1		**13.39**	**58.66**	**13.39**	**58.66**	**12.09**	**52.98**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**3.03**	**13.28**	**3.03**	**13.28**	**2.74**	**11.99**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.00E-02	#/ADTFP	A	1		**0.42**	**1.83**	**0.42**	**1.83**	**0.38**	**1.66**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP	4.10E-03	#/ADTFP	A	1		**0.17**	**0.75**	**0.17**	**0.75**	**0.15**	**0.68**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r	2.40E-03	#/ADTFP	A	1		**0.10**	**0.44**	**0.10**	**0.44**	**0.09**	**0.40**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r	6.90E-04	#/ADTFP	A	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.03**	**0.11**
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	7.20E-05	#/ADTFP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	4.40E-02	#/ADTFP	A	1		**1.84**	**8.07**	**1.84**	**8.07**	**1.66**	**7.28**
Methyl ethyl ketone	78933	HAP, TAP	1.50E-04	#/ADTFP	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	2.10E-03		A	1		**0.09**	**0.38**	**0.09**	**0.38**	**0.08**	**0.35**
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Paper Machine 3	1,005	ADTFP/Day	917	ADTFP/Day	24	7	365	361
AEI Group ID = 006, Process Unit ID = 3								
Title V Unit ID = 06. Equipment ID = 4100								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	8.90E-03	#/ADTFP	A	1		**0.37**	**1.63**	**0.37**	**1.63**	**0.34**	**1.47**
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.80E-05	#/ADTFP	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 740, Newsprint Machine at Mill RR.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Emission factor from NCASI Technical Blletin No. 884.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Coater - Natural Gas Firing	48	MM Btu/hr	31	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 7								
Title V Unit ID = 06. Equipment ID = 4110, 4120, 4130								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.06**	**0.26**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.06**	**0.26**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.06**	**0.26**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**0.27**	**1.19**	**0.27**	**1.19**	**0.18**	**0.77**
Total paticulate matter						1		**0.36**	**1.59**	**0.36**	**1.59**	**0.23**	**1.02**
Total particulate matter < 10 microns		Criteria				1		**0.36**	**1.59**	**0.36**	**1.59**	**0.23**	**1.02**
Total particulate matter < 2.5 microns		Criteria				1		**0.36**	**1.59**	**0.36**	**1.59**	**0.23**	**1.02**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.08**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**0.26**	**1.15**	**0.26**	**1.15**	**0.17**	**0.74**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**0.66**	**2.87**	**0.66**	**2.87**	**0.42**	**1.85**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**4.01**	**17.55**	**4.01**	**17.55**	**2.58**	**11.30**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	1.00E-01	#/MM Btu	A	1		**4.77**	**20.89**	**4.77**	**20.89**	**3.07**	**13.45**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**5,575.52**	**24,420.76**	**5,575.52**	**24,420.76**	**3,589.05**	**15,720.05**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.07**	**0.30**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.03**
Carbon dioxide equivalent		GHG			J	1		**5,580.98**	**24,444.71**	**5,580.98**	**24,444.71**	**3,592.57**	**15,735.47**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.10**	**0.45**	**0.10**	**0.45**	**0.07**	**0.29**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.04**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.09**	**0.38**	**0.09**	**0.38**	**0.06**	**0.24**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Coater - Natural Gas Firing	48	MM Btu/hr	31	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 7								
Title V Unit ID = 06. Equipment ID = 4110, 4120, 4130								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Small Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Coater - Propane Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361

AEI Group ID = 006, Process Unit ID = 8

Title V Unit ID = 06. Equipment ID = 4110, 4120, 4130

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			2.21E-03	#/MM Btu	A	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	5.52E-03	#/MM Btu	B	1		**0.26**	**1.15**	**0.26**	**1.15**	**0.00**	**0.00**
Total paticulate matter						1		**0.37**	**1.62**	**0.37**	**1.62**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.37**	**1.62**	**0.37**	**1.62**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.37**	**1.62**	**0.37**	**1.62**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	1.99E-04	#/MM Btu	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	1.10E-02	#/MM Btu	A	1		**0.53**	**2.31**	**0.53**	**2.31**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.10E-02	#/MM Btu	C	2.5		**1.32**	**5.77**	**1.32**	**5.77**	**0.00**	**0.00**
Carbon monoxide		Criteria	8.29E-02	#/MM Btu	A	1		**3.95**	**17.31**	**3.95**	**17.31**	**0.00**	**0.00**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.44E-01	#/MM Btu	A	1		**6.85**	**30.01**	**6.85**	**30.01**	**0.00**	**0.00**
Carbon dioxide	124389	GHG	6.15E+01	kg/MM Btu	D	1		**6,463.06**	**28,308.18**	**6,463.06**	**28,308.18**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	D	1		**0.32**	**1.38**	**0.32**	**1.38**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	D	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			E	1		**6,489.24**	**28,422.87**	**6,489.24**	**28,422.87**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Coater - Propane Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361

AEI Group ID = 006, Process Unit ID = 8
Title V Unit ID = 06. Equipment ID = 4110, 4120, 4130

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Propane-fired Industrial Boilers - Table 1.5-1.
B) All particulate matter assumed to be less than 2.5, consistent with AP-42..
C) Primary VOC assumed to be formaldehyde.
D) Emission factor for propane combustion in EPA MRR, Table C-1 and C-2.
E) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons propane to #/MM Btu assuming 90,500 Btu/gallon propane.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Coater - Kerosene Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361

AEI Group ID = 006, Process Unit ID = 9

Title V Unit ID = 06. Equipment ID = 4110, 4120, 4130

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.48E-02	#/MM Btu	A	1		**0.71**	**3.10**	**0.71**	**3.10**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	7.41E-03	#/MM Btu	B	1		**0.35**	**1.55**	**0.35**	**1.55**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	1.85E-03	#/MM Btu	B	1		**0.09**	**0.39**	**0.09**	**0.39**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	9.63E-03	#/MM Btu	C	1		**0.46**	**2.01**	**0.46**	**2.01**	**0.00**	**0.00**
Total paticulate matter						1		**1.17**	**5.11**	**1.17**	**5.11**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.81**	**3.56**	**0.81**	**3.56**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.55**	**2.40**	**0.55**	**2.40**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	5.26E-02	#/MM Btu	A	1		**2.51**	**10.99**	**2.51**	**10.99**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	1.48E-03	#/MM Btu	D	1		**0.07**	**0.31**	**0.07**	**0.31**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.48E-03	#/MM Btu	H	2.5		**0.18**	**0.77**	**0.18**	**0.77**	**0.00**	**0.00**
Carbon monoxide		Criteria	3.70E-02	#/MM Btu	A	1		**1.77**	**7.74**	**1.77**	**7.74**	**0.00**	**0.00**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.48E-01	#/MM Btu	A	1		**7.07**	**30.95**	**7.07**	**30.95**	**0.00**	**0.00**
Carbon dioxide	124389	GHG	7.52E+01	kg/MM Btu	I	1		**7,907.94**	**34,636.76**	**7,907.94**	**34,636.76**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**0.32**	**1.38**	**0.32**	**1.38**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**7,934.12**	**34,751.45**	**7,934.12**	**34,751.45**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.02**	**0.11**	**0.02**	**0.11**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP	1.75E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	4.00E-06	#/MM Btu	G	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	1.59E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP	3.00E-06	#/MM Btu	G	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.71E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.56E-04	#/MM Btu	E	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	9.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	6.00E-06	#/MM Btu	G	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	3.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	8.37E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine 3 - Coater - Kerosene Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 9								
Title V Unit ID = 06. Equipment ID = 4110, 4120, 4130								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP	8.07E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP	2.44E-05	#/MM Btu	E	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.50E-05	#/MM Btu	G	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.59E-05	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-1.
B) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-6.
C) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-2.
D) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-3.
E) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers - Table 1.3-8.
F) Emission factors from AP-42 for Uncontrolled Residual Oil-fired Boilers - Table 1.3-9.
G) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Utility Boilers - Table 1.3-10.
H) Primary VOC assumed to be formaldehyde.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons kerosene to #/MM Btu assuming 135,000 Btu/gallon kerosene.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Pulp Dryer	812	ADTFP/Day	720	ADTFP/Day	24	7	365	327
AEI Group ID = 006, Process Unit ID = 4								
Title V Unit ID = 06. Equipment ID = 2100								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			5.80E-03	#/ADTFP	C	1		**0.20**	**0.86**	**0.20**	**0.86**	**0.16**	**0.68**
Filterable particulate matter < 10 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.20**	**0.86**	**0.20**	**0.86**	**0.16**	**0.68**
Filterable particulate matter < 2.5 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.20**	**0.86**	**0.20**	**0.86**	**0.16**	**0.68**
Condensible particulate matter < 2.5 microns		Criteria	5.80E-03	#/ADTFP	C	1		**0.20**	**0.86**	**0.20**	**0.86**	**0.16**	**0.68**
Total paticulate matter						1		**0.39**	**1.72**	**0.39**	**1.72**	**0.31**	**1.36**
Total particulate matter < 10 microns		Criteria				1		**0.39**	**1.72**	**0.39**	**1.72**	**0.31**	**1.36**
Total particulate matter < 2.5 microns		Criteria				1		**0.39**	**1.72**	**0.39**	**1.72**	**0.31**	**1.36**
Sulfur dioxide	7446095	Criteria	0.00E+00			1							
Volatile organic compounds (as carbon)		Criteria	1.04E-01	#/ADTFP	A	1		**3.52**	**15.41**	**3.52**	**15.41**	**2.79**	**12.23**
Volatile organic compounds (as VOC)		Criteria	3.80E-01	#/ADTFP	B	1		**12.85**	**56.30**	**12.85**	**56.30**	**10.20**	**44.69**
Carbon monoxide		Criteria	0.00E+00			1							
Lead		Criteria	0.00E+00			1							
Nitrogen oxides		Criteria	0.00E+00			1							
Carbon dioxide	124389	GHG	0.00E+00			1							
Biogenic carbon dioxide	124389	GHG	0.00E+00			1							
Methane	74828	GHG, (112r)	0.00E+00			1							
Nitrous oxide	10024972	GHG	0.00E+00			1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r	0.00E+00			1							
Sulfuric acid mist	7664939	TAP	0.00E+00			1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	9.9E-03	#/ADTFP	A	1		**0.33**	**1.47**	**0.33**	**1.47**	**0.27**	**1.16**
Total Reduced Sulfur (as Sulfur)		NSPS	6.6E-03	#/ADTFP	A	1		**0.22**	**0.98**	**0.22**	**0.98**	**0.18**	**0.78**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	7.0E-03	#/ADTFP	A	1		**0.24**	**1.04**	**0.24**	**1.04**	**0.19**	**0.82**
Total 112(b) Hazardous Air Pollutants								**5.52**	**24.19**	**5.52**	**24.19**	**4.38**	**19.20**
1,1,1-Trichloroethane	71556	HAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP	0.00E+00			1							
1,1-Dichloroethene	75354	HAP, (112r)	0.00E+00			1							
1,1,2-Trichloroethane	79005	HAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP	0.00E+00			1							
1,2,4-Trichlorobenzene	120821	HAP	2.10E-02	#/ADTFP	A	1		**0.71**	**3.11**	**0.71**	**3.11**	**0.56**	**2.47**
1,4-Dichlorobenzene	106467	HAP	0.00E+00			1							
2-Chloroacetophenone	532274	HAP	0.00E+00			1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP	0.00E+00			1							
2,4-Dinitrophenol	51286	HAP	0.00E+00			1							
2,4-Dinitrotoluene	121142	HAP	0.00E+00			1							
2,4,6-Trichlorophenol	88062	HAP	0.00E+00			1							
4-Nitrophenol	100027	HAP	0.00E+00			1							
Acetaldehyde	75070	HAP, TAP, (112r	1.70E-02	#/ADTFP	A	1		**0.58**	**2.52**	**0.58**	**2.52**	**0.46**	**2.00**
Acetophenone	98862	HAP, TAP	0.00E+00			1							
Acrolein	107028	HAP, TAP, (112r	1.30E-03	#/ADTFP	A	1		**0.04**	**0.19**	**0.04**	**0.19**	**0.03**	**0.15**
Acrylonitrile	107131	HAP, TAP, (112r	0.00E+00			1							
Aniline	62533	HAP, TAP	0.00E+00			1							
Antimony Compounds		HAP, TAP	0.00E+00			1.20							
Arsenic Compounds		HAP, TAP	0.00E+00			1.32							
Benzene	71432	HAP, TAP	7.80E-04	#/ADTFP	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.09**
Benzyl chloride	100447	HAP, TAP	0.00E+00			1							
Beryllium Compounds		HAP, TAP	0.00E+00			2.78							
Biphenyl	92524	HAP, TAP	0.00E+00			1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	0.00E+00			1							
Bromoform	75252	HAP, TAP	0.00E+00			1							
Bromomethane	74839	HAP, TAP	0.00E+00			1							
Cadmium Compounds		HAP, TAP	0.00E+00			1.14							
Carbon disulfide	75150	HAP, TAP, (112r	0.00E+00			1							
Carbon tetrachloride	56235	HAP, TAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r	0.00E+00			1							
Catechol	120809	HAP, TAP	0.00E+00			1							
Chlorine	7782505	HAP, TAP, (112r	0.00E+00			1							
Chlorobenzene	108907	HAP, TAP	1.70E-03	#/ADTFP	A	1		**0.06**	**0.25**	**0.06**	**0.25**	**0.05**	**0.20**
Chloroform	67663	HAP, TAP, (112r	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r	0.00E+00			1							
Chromium Compounds		HAP	0.00E+00			1.31							
Chromium(+6) Compounds		HAP, TAP	0.00E+00			1.31							
Cobalt Compounds		HAP, TAP	0.00E+00			1.27							
Cresols	1319773	HAP, TAP	0.00E+00			1							
Cumene	98828	HAP, TAP	0.00E+00			1							
Cyanide Compounds		HAP, TAP	5.81E-03			1							
Dibenzofuran	132649	HAP, TAP	0.00E+00			1							
Diethanolamine	111422	HAP, TAP	8.90E-03			1							
Dimethyl phthalate	131113	HAP, TAP	0.00E+00			1							
Dimethyl sulfate	77781	HAP, TAP	0.00E+00			1							
Ethylbenzene	100414	HAP, TAP	0.00E+00			1							
Ethyl chloride	75003	HAP, TAP, (112r	0.00E+00			1							
Ethylene dibromide	106934	HAP, TAP	0.00E+00			1							
Formaldehyde	50000	HAP, TAP, (112r	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP	5.14E-03			1							
Hexachlorobenzene	118741	HAP, TAP	0.00E+00			1							
Hexachlorocyclopentadiene	77474	HAP, TAP	0.00E+00			1							
Hexachloroethane	67721	HAP, TAP	0.00E+00			1							
Hydrochloric acid	7647010	HAP, TAP, (112r	0.00E+00			1							
Hydrogen fluoride	7664393	HAP, (112r)	0.00E+00			1.05							
Iodomethane	74884	HAP	0.00E+00			1							
Isophorone	78591	HAP, TAP	0.00E+00			1							
Lead Compounds		HAP, TAP	0.00E+00			1.08							
Manganese Compounds		HAP, TAP	0.00E+00			1.29							
m-Cresol	108394	HAP, TAP	0.00E+00			1							
Mercury Compounds		HAP	0.00E+00			1.08							
Methanol	67561	HAP, TAP	9.93E-02	#/ADTFP	A	1		**3.36**	**14.71**	**3.36**	**14.71**	**2.67**	**11.67**
Methyl ethyl ketone	78933	HAP, TAP	1.80E-03	#/ADTFP	A	1		**0.06**	**0.27**	**0.06**	**0.27**	**0.05**	**0.21**
Methyl isobutyl ketone	108101	HAP, TAP	3.10E-03	#/ADTFP	A	1		**0.10**	**0.46**	**0.10**	**0.46**	**0.08**	**0.36**
Methyl hydrazine	60334	HAP, TAP, (112r	0.00E+00			1							
Methyl methacrylate	80626	HAP, TAP	0.00E+00			1							
Methyl tert butyl ether	1634044	HAP, TAP	0.00E+00			1							
Methylene chloride	75092	HAP, TAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.20E-03	#/ADTFP	A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.14**
Naphthalene	91203	HAP, TAP	0.00E+00			1							
n-Hexane	110543	HAP, TAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	0.00E+00			1.27							
o-Cresol	95487	HAP, TAP	0.00E+00			1							
o-Xylene	95476	HAP, TAP	1.80E-03	#/ADTFP	A	1		**0.06**	**0.27**	**0.06**	**0.27**	**0.05**	**0.21**
p-Cresol	106445	HAP, TAP	0.00E+00			1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill - Pulp Dryer	812	ADTFP/Day	720	ADTFP/Day	24	7	365	327
AEI Group ID = 006, Process Unit ID = 4								
Title V Unit ID = 06. Equipment ID = 2100								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP	0.00E+00			1							
Phenol	108952	HAP, TAP	0.00E+00			1							
Phosphorus	7723140	HAP, TAP	0.00E+00			1							
Polycyclic organic matter		HAP, TAP	0.00E+00			1							
Propionaldehyde	123386	HAP, TAP	0.00E+00			1							
p-Xylene	106423	HAP, TAP	1.20E-03	#/ADTFP	A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.14**
Selenium Compounds		HAP, TAP	0.00E+00			1.41							
Styrene	100425	HAP, TAP	5.20E-03	#/ADTFP	A	1		**0.18**	**0.77**	**0.18**	**0.77**	**0.14**	**0.61**
Tetrachloroethylene	127184	HAP, TAP	4.60E-03	#/ADTFP	A	1		**0.16**	**0.68**	**0.16**	**0.68**	**0.12**	**0.54**
Toluene	108883	HAP, TAP	3.30E-04	#/ADTFP	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Trichloroethylene	79016	HAP, TAP	0.00E+00	#/ADTFP	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r	0.00E+00			1							
Vinyl chloride	75014	HAP, TAP	0.00E+00			1							
Xylenes	1330207	HAP, TAP	3.00E-03	#/ADTFP	A	1		**0.10**	**0.44**	**0.10**	**0.44**	**0.08**	**0.35**

8. REFERENCES:
A) Average emission factors from NCASI Technical Bulletin No. 701, Table 18 - Pulp Dryer.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Emission factor from NCASI Technical Blletin No. 884.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Precipitator Mix Tanks	3,169	Ton BLS/Day	2,723	Ton BLS/Day	24	7	365	349
AEI Group ID = 007, Process Unit ID = 2								
Title V Unit ID = 07. Equipment ID = 2515, 5115								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			0.00E+00			1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	0.00E+00			1							
Volatile organic compounds (as carbon)		Criteria	1.30E-03	#/T BLS	D	1		**0.17**	**0.75**	**0.17**	**0.75**	**0.14**	**0.62**
Volatile organic compounds (as VOC)		Criteria	4.00E-03	#/T BLS	E	1		**0.53**	**2.31**	**0.53**	**2.31**	**0.43**	**1.90**
Carbon monoxide		Criteria	0.00E+00			1							
Lead		Criteria	0.00E+00			1							
Nitrogen oxides		Criteria	0.00E+00			1							
Carbon dioxide	124389	GHG	0.00E+00			1							
Biogenic carbon dioxide	124389	GHG	0.00E+00			1							
Methane	74828	GHG, (112r)	0.00E+00			1							
Nitrous oxide	10024972	GHG	0.00E+00			1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r	0.00E+00			1							
Sulfuric acid mist	7664939	TAP	0.00E+00			1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	1.7E-04	#/T BLS	G	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
Total Reduced Sulfur (as Sulfur)		NSPS	1.0E-04	#/T BLS	F	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.1E-04	#/T BLS	H	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Total 112(b) Hazardous Air Pollutants								**0.92**	**4.01**	**0.92**	**4.01**	**0.75**	**3.30**
1,1,1-Trichloroethane	71556	HAP	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP	0.00E+00			1							
1,1-Dichloroethene	75354	HAP, (112r)	0.00E+00			1							
1,1,2-Trichloroethane	79005	HAP	6.40E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP	0.00E+00			1							
1,2,4-Trichlorobenzene	120821	HAP	2.36E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,4-Dichlorobenzene	106467	HAP	0.00E+00			1							
2-Chloroacetophenone	532274	HAP	0.00E+00			1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP	0.00E+00			1							
2,4-Dinitrophenol	51286	HAP	0.00E+00			1							
2,4-Dinitrotoluene	121142	HAP	0.00E+00			1							
2,4,6-Trichlorophenol	88062	HAP	0.00E+00			1							
4-Nitrophenol	100027	HAP	0.00E+00			1							
Acetaldehyde	75070	HAP, TAP, (112r	2.62E-04	#/T BLS	A	1		**0.03**	**0.15**	**0.03**	**0.15**	**0.03**	**0.12**
Acetophenone	98862	HAP, TAP	0.00E+00			1							
Acrolein	107028	HAP, TAP, (112r	7.03E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r	0.00E+00			1							
Aniline	62533	HAP, TAP	0.00E+00			1							
Antimony Compounds		HAP, TAP	0.00E+00			1.20							
Arsenic Compounds		HAP, TAP	0.00E+00			1.32							
Benzene	71432	HAP, TAP	9.94E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP	0.00E+00			1							
Beryllium Compounds		HAP, TAP	0.00E+00			2.78							
Biphenyl	92524	HAP, TAP	0.00E+00			1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	0.00E+00			1							
Bromoform	75252	HAP, TAP	0.00E+00			1							
Bromomethane	74839	HAP, TAP	0.00E+00			1							
Cadmium Compounds		HAP, TAP	0.00E+00			1.14							
Carbon disulfide	75150	HAP, TAP, (112r	0.00E+00			1							
Carbon tetrachloride	56235	HAP, TAP	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r	0.00E+00			1							
Catechol	120809	HAP, TAP	0.00E+00			1							
Chlorine	7782505	HAP, TAP, (112r	0.00E+00			1							
Chlorobenzene	108907	HAP, TAP	1.35E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r	0.00E+00			1							
Chromium Compounds		HAP	0.00E+00			1.31							
Chromium(+6) Compounds		HAP, TAP	0.00E+00			1.31							
Cobalt Compounds		HAP, TAP	0.00E+00			1.27							
Cresols	1319773	HAP, TAP	0.00E+00			1							
Cumene	98828	HAP, TAP	0.00E+00			1							
Cyanide Compounds		HAP, TAP	0.00E+00			1							
Dibenzofuran	132649	HAP, TAP	0.00E+00			1							
Diethanolamine	111422	HAP, TAP	0.00E+00			1							
Dimethyl phthalate	131113	HAP, TAP	0.00E+00			1							
Dimethyl sulfate	77781	HAP, TAP	0.00E+00			1							
Ethylbenzene	100414	HAP, TAP	0.00E+00			1							
Ethyl chloride	75003	HAP, TAP, (112r	0.00E+00			1							
Ethylene dibromide	106934	HAP, TAP	0.00E+00			1							
Formaldehyde	50000	HAP, TAP, (112r	2.69E-05	#/T BLS	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP	0.00E+00			1							
Hexachlorobenzene	118741	HAP, TAP	0.00E+00			1							
Hexachlorocyclopentadiene	77474	HAP, TAP	0.00E+00			1							
Hexachloroethane	67721	HAP, TAP	0.00E+00			1							
Hydrochloric acid	7647010	HAP, TAP, (112r	0.00E+00			1							
Hydrogen fluoride	7664393	HAP, (112r)	0.00E+00			1.05							
Iodomethane	74884	HAP	0.00E+00			1							
Isophorone	78591	HAP, TAP	0.00E+00			1							
Lead Compounds		HAP, TAP	0.00E+00			1.08							
Manganese Compounds		HAP, TAP	0.00E+00			1.29							
m-Cresol	108394	HAP, TAP	0.00E+00			1							
Mercury Compounds		HAP	0.00E+00			1.08							
Methanol	67561	HAP, TAP	6.48E-03	#/T BLS	A	1		**0.86**	**3.75**	**0.86**	**3.75**	**0.70**	**3.08**
Methyl ethyl ketone	78933	HAP, TAP	8.85E-05	#/T BLS	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Methyl isobutyl ketone	108101	HAP, TAP	1.97E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r	0.00E+00			1							
Methyl methacrylate	80626	HAP, TAP	0.00E+00			1							
Methyl tert butyl ether	1634044	HAP, TAP	0.00E+00			1							
Methylene chloride	75092	HAP, TAP	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.25E-06	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP	0.00E+00			1							
n-Hexane	110543	HAP, TAP	6.31E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	0.00E+00			1.27							
o-Cresol	95487	HAP, TAP	0.00E+00			1							
o-Xylene	95476	HAP, TAP	1.70E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP	0.00E+00			1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Precipitator Mix Tanks	3,169	Ton BLS/Day	2,723	Ton BLS/Day	24	7	365	349
AEI Group ID = 007, Process Unit ID = 2								
Title V Unit ID = 07. Equipment ID = 2515, 5115								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP	0.00E+00			1							
Phenol	108952	HAP, TAP	0.00E+00			1							
Phosphorus	7723140	HAP, TAP	0.00E+00			1							
Polycyclic organic matter		HAP, TAP	0.00E+00			1							
Propionaldehyde	123386	HAP, TAP	0.00E+00			1							
p-Xylene	106423	HAP, TAP	1.25E-06	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	0.00E+00			1.41							
Styrene	100425	HAP, TAP	2.96E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	1.41E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	2.79E-05	#/T BLS	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r	0.00E+00			1							
Vinyl chloride	75014	HAP, TAP	0.00E+00			1							
Xylenes	1330207	HAP, TAP	0.00E+00	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:
A) Highest average emission factors from NCASI Technical Bulletin No. 677, Salt Cake Mix Tanks at mills L and N.
B) Highest average emission factors from NCASI Technical Bulletin No. 677 (m-,p-xylene), Salt Cake Mix Tanks at mills L and N.
C) Highest average emission factors from NCASI Technical Bulletin No. 677 (THC - method 25A), Salt Cake Mix Tanks at mills L and N.
C) Highest average emission factors from NCASI Technical Bulletin No. 677 (THC - method 25A), Salt Cake Mix Tanks at mills L and N.
E) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
F) Emission factor from NCASI Technical Bulletin 849, Table 20.
G) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
H) Assumed TRS (as S) converted to H2S based on molecular weight.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Worst-Case Emissions								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 07. Equipment ID = 2505								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								1,759.36	7,705.99	17.59	77.06	13.94	61.06
Filterable particulate matter < 10 microns		Criteria						931.42	4,079.64	9.31	40.80	7.38	32.33
Filterable particulate matter < 2.5 microns		Criteria						691.51	3,028.82	6.92	30.29	5.48	24.00
Condensible particulate matter < 2.5 microns		Criteria						3.60	15.77	3.60	15.77	2.25	9.85
Total paticulate matter								1,762.13	7,718.15	20.37	89.22	16.19	70.92
Total particulate matter < 10 microns		Criteria						934.20	4,091.80	12.09	52.95	9.63	42.18
Total particulate matter < 2.5 microns		Criteria						694.29	3,040.98	9.69	42.44	7.73	33.86
Sulfur dioxide	7446095	Criteria						791.28	3,465.81	791.28	3,465.81	19.57	85.71
Volatile organic compounds (as carbon)		Criteria						4.23	18.54	4.23	18.54	3.38	14.80
Volatile organic compounds (as VOC)		Criteria						6.59	28.85	6.59	28.85	5.28	23.13
Carbon monoxide		Criteria						56.92	249.31	56.92	249.31	45.26	198.22
Lead		Criteria						0.01	0.04	0.01	0.04	0.00	0.00
Nitrogen oxides		Criteria						112.80	494.06	112.80	494.06	57.51	251.89
Carbon dioxide	124389	GHG						59,603.17	261,061.90	59,603.17	261,061.90	856.60	3,751.92
Biogenic carbon dioxide	124389	GHG						234,959.44	1,029,122.33	234,959.44	1,029,122.33	186,095.05	815,096.32
Methane	74828	GHG, (112r)						74.67	327.05	74.67	327.05	59.17	259.18
Nitrous oxide	10024972	GHG						12.44	54.51	12.44	54.51	9.86	43.20
Carbon dioxide equivalent		GHG						240,385.41	1,052,888.08	240,385.41	1,052,888.08	191,252.03	837,683.88
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						35.19	154.14	35.19	154.14	1.25	5.48
Hydrogen Sulfide	7783064	NSPS, TAP						0.16	0.70	0.16	0.70	0.13	0.55
Total Reduced Sulfur (as TRS)		NSPS						0.27	1.20	0.27	1.20	0.22	0.95
Total Reduced Sulfur (as Sulfur)		NSPS						0.22	0.97	0.22	0.97	0.18	0.77
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						0.23	1.03	0.23	1.03	0.19	0.81
Total 112(b) Hazardous Air Pollutants								8.66	37.94	8.66	37.94	6.89	30.16
1,1,1-Trichloroethane	71556	HAP						0.03	0.12	0.03	0.12	0.02	0.10
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.03	0.12	0.03	0.12	0.02	0.10
1,2-Dichloroethane	107062	HAP						0.03	0.12	0.03	0.12	0.02	0.10
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.04	0.16	0.04	0.16	0.03	0.13
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						0.02	0.09	0.02	0.09	0.02	0.07
Acetophenone	98862	HAP, TAP						0.56	2.47	0.56	2.47	0.45	1.96
Acrolein	107028	HAP, TAP, (112r)						0.01	0.05	0.01	0.05	0.01	0.04
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.02	0.07	0.02	0.07	0.00	0.00
Arsenic Compounds		HAP, TAP						0.01	0.04	0.01	0.04	0.00	0.00
Benzene	71432	HAP, TAP						0.03	0.13	0.03	0.13	0.02	0.10
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.33	1.44	0.33	1.44	0.26	1.14
Carbon tetrachloride	56235	HAP, TAP						0.03	0.11	0.03	0.11	0.02	0.09
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.83	3.65	0.83	3.65	0.01	0.05
Chlorobenzene	108907	HAP, TAP						0.01	0.04	0.01	0.04	0.01	0.03
Chloroform	67663	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.01	0.00	0.01	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Cobalt Compounds		HAP, TAP						0.02	0.08	0.02	0.08	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						0.71	3.09	0.71	3.09	0.56	2.45
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.61	2.68	0.61	2.68	0.48	2.12
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.23	0.99	0.23	0.99	0.18	0.79
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						2.59	11.33	2.59	11.33	2.05	8.98
Hydrogen fluoride	7664393	HAP, (112r)						0.09	0.41	0.09	0.41	0.00	0.01
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
Manganese Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.01
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.02	0.10	0.02	0.10	0.00	0.00
Methanol	67561	HAP, TAP						2.07	9.07	2.07	9.07	1.64	7.18
Methyl ethyl ketone	78933	HAP, TAP						0.04	0.19	0.04	0.19	0.04	0.15
Methyl isobutyl ketone	108101	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.01
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.02	0.10	0.02	0.10	0.02	0.08
m-Xylene	108383	HAP, TAP						0.01	0.04	0.01	0.04	0.01	0.03
Naphthalene	91203	HAP, TAP						0.01	0.05	0.01	0.05	0.01	0.04
n-Hexane	110543	HAP, TAP						0.01	0.05	0.01	0.05	0.01	0.04
Nickel Compounds		HAP, TAP						0.49	2.13	0.49	2.13	0.01	0.04
o-Cresol	95487	HAP, TAP						0.61	2.68	0.61	2.68	0.48	2.12
o-Xylene	95476	HAP, TAP						0.02	0.07	0.02	0.07	0.01	0.05
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Worst-Case Emissions								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 07. Equipment ID = 2505								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.52**	**2.27**	**0.52**	**2.27**	**0.41**	**1.80**
Phosphorus	7723140	HAP, TAP						**0.02**	**0.10**	**0.02**	**0.10**	**0.01**	**0.03**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Selenium Compounds		HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.09**
Tetrachloroethylene	127184	HAP, TAP						**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
Toluene	108883	HAP, TAP						**0.01**	**0.07**	**0.01**	**0.07**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP						**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.10**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Black Liquor Solids	1,129.0	Ton BLS/Day	934.6	Ton BLS/Day	24	7	365	349
AEI Group ID = 007, Process Unit ID = 4								
Title V Unit ID = 07. Equipment ID = 2505								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			3.74E-01	#/T BLS	F	1	99%	**1,759.36**	**7,705.99**	**17.59**	**77.06**	**13.93**	**61.03**
Filterable particulate matter < 10 microns		Criteria	1.98E-01	#/T BLS	F	1	99%	**931.42**	**4,079.64**	**9.31**	**40.80**	**7.38**	**32.31**
Filterable particulate matter < 2.5 microns		Criteria	1.47E-01	#/T BLS	F	1	99%	**691.51**	**3,028.82**	**6.92**	**30.29**	**5.48**	**23.99**
Condensible particulate matter < 2.5 microns		Criteria	5.90E-02	#/T BLS	F	1		**2.78**	**12.16**	**2.78**	**12.16**	**2.20**	**9.63**
Total paticulate matter						1		**1,762.13**	**7,718.15**	**20.37**	**89.22**	**16.13**	**70.66**
Total particulate matter < 10 microns		Criteria				1		**934.20**	**4,091.80**	**12.09**	**52.95**	**9.58**	**41.94**
Total particulate matter < 2.5 microns		Criteria				1		**694.29**	**3,040.98**	**9.69**	**42.44**	**7.68**	**33.62**
Sulfur dioxide	7446095	Criteria	2.20E-01	#/T BLS	E	1		**10.35**	**45.33**	**10.35**	**45.33**	**8.20**	**35.90**
Volatile organic compounds (as carbon)		Criteria	9.00E-02	#/T BLS	E	1		**4.23**	**18.54**	**4.23**	**18.54**	**3.35**	**14.69**
Volatile organic compounds (as VOC)		Criteria	1.40E-01	#/T BLS	G	1		**6.59**	**28.85**	**6.59**	**28.85**	**5.22**	**22.85**
Carbon monoxide		Criteria	1.21E+00	#/T BLS	E	1		**56.92**	**249.31**	**56.92**	**249.31**	**45.08**	**197.46**
Lead		Criteria	1.20E-05	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	1.50E+00	#/T BLS	E	1		**70.56**	**309.06**	**70.56**	**309.06**	**55.89**	**244.79**
Carbon dioxide	124389	GHG				1		**0.00**					
Biogenic carbon dioxide	124389	GHG	9.44E+01	kg/MM Btu	H	1		**234,959.44**	**1,029,122.33**	**234,959.44**	**1,029,122.33**	**186,095.05**	**815,096.32**
Methane	74828	GHG, (112r)	3.00E-02	kg/MM Btu	H	1		**74.67**	**327.05**	**74.67**	**327.05**	**59.14**	**259.03**
Nitrous oxide	10024972	GHG	5.00E-03	kg/MM Btu	H	1		**12.44**	**54.51**	**12.44**	**54.51**	**9.86**	**43.17**
Carbon dioxide equivalent		GHG			I	1		**240,385.41**	**1,052,888.08**	**240,385.41**	**1,052,888.08**	**190,392.58**	**833,919.52**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	2.00E-02	#/T BLS	A	1		**0.94**	**4.12**	**0.94**	**4.12**	**0.75**	**3.26**
Hydrogen Sulfide	7783064	NSPS, TAP	3.4E-03	#/T BLS	A	1		**0.16**	**0.70**	**0.16**	**0.70**	**0.13**	**0.55**
Total Reduced Sulfur (as TRS)		NSPS	5.8E-03	#/T BLS	A	1		**0.27**	**1.20**	**0.27**	**1.20**	**0.22**	**0.95**
Total Reduced Sulfur (as Sulfur)		NSPS	4.7E-03	#/T BLS	A	1		**0.22**	**0.97**	**0.22**	**0.97**	**0.18**	**0.77**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-03	#/T BLS	D	1		**0.23**	**1.03**	**0.23**	**1.03**	**0.19**	**0.81**
Total 112(b) Hazardous Air Pollutants								**8.66**	**37.94**	**8.66**	**37.94**	**6.86**	**30.05**
1,1,1-Trichloroethane	71556	HAP	6.00E-04	#/T BLS	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.10**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.00E-04	#/T BLS	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.10**
1,2-Dichloroethane	107062	HAP	6.00E-04	#/T BLS	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.10**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	7.70E-04	#/T BLS	A	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.03**	**0.13**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	4.20E-04	#/T BLS	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.07**
Acetophenone	98862	HAP, TAP	1.20E-02	#/T BLS	A	1		**0.56**	**2.47**	**0.56**	**2.47**	**0.45**	**1.96**
Acrolein	107028	HAP, TAP, (112r	2.60E-04	#/T BLS	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	1.50E-06	#/T BLS	B	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	1.30E-08	#/T BLS	B	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	6.40E-04	#/T BLS	A	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.10**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.30E-08	#/T BLS	B	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	7.10E-06	#/T BLS	B	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	7.00E-03	#/T BLS	A	1		**0.33**	**1.44**	**0.33**	**1.44**	**0.26**	**1.14**
Carbon tetrachloride	56235	HAP, TAP	5.50E-04	#/T BLS	A	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.09**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.80E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Chloroform	67663	HAP, TAP, (112r	2.40E-05	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP	1.90E-05	#/T BLS	B	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	1.40E-05	#/T BLS	B	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	1.60E-06	#/T BLS	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	1.50E-02	#/T BLS	A	1		**0.71**	**3.09**	**0.71**	**3.09**	**0.56**	**2.45**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.30E-02	#/T BLS	A	1		**0.61**	**2.68**	**0.61**	**2.68**	**0.48**	**2.12**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.80E-03	#/T BLS	A	1		**0.23**	**0.99**	**0.23**	**0.99**	**0.18**	**0.78**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r	5.50E-02	#/T BLS	A	1		**2.59**	**11.33**	**2.59**	**11.33**	**2.05**	**8.98**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	1.20E-05	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	5.20E-05	#/T BLS	B	1.29		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	1.80E-07	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	4.40E-02	#/T BLS	A	1		**2.07**	**9.07**	**2.07**	**9.07**	**1.64**	**7.18**
Methyl ethyl ketone	78933	HAP, TAP	9.40E-04	#/T BLS	A	1		**0.04**	**0.19**	**0.04**	**0.19**	**0.04**	**0.15**
Methyl isobutyl ketone	108101	HAP, TAP	3.30E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.80E-04	#/T BLS	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
m-Xylene	108383	HAP, TAP	1.80E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Naphthalene	91203	HAP, TAP	2.60E-04	#/T BLS	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
n-Hexane	110543	HAP, TAP	2.50E-04	#/T BLS	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Nickel Compounds		HAP, TAP	3.30E-05	#/T BLS	B	1.27		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
o-Cresol	95487	HAP, TAP	1.30E-02	#/T BLS	A	1		**0.61**	**2.68**	**0.61**	**2.68**	**0.48**	**2.12**
o-Xylene	95476	HAP, TAP	3.30E-04	#/T BLS	A	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.05**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Black Liquor Solids	1,129.0	Ton BLS/Day	934.6	Ton BLS/Day	24	7	365	349
AEI Group ID = 007, Process Unit ID = 4								
Title V Unit ID = 07. Equipment ID = 2505								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	1.10E-02	#/T BLS	A	1		**0.52**	**2.27**	**0.52**	**2.27**	**0.41**	**1.80**
Phosphorus	7723140	HAP, TAP	2.00E-04	#/T BLS	B	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.80E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Selenium Compounds		HAP, TAP	8.00E-07	#/T BLS	B	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	5.60E-04	#/T BLS	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.09**
Tetrachloroethylene	127184	HAP, TAP	4.80E-04	#/T BLS	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
Toluene	108883	HAP, TAP	3.30E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP	6.00E-04	#/T BLS	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.10**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 14A.
B) Emission factors from NCASI Technical Bulletin 858, Table 14B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.12.
F) Emission factors from NCASI 2012 Pulp and Paper Criteria Pollutant Database.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
H) Emission factor for north american softwood kraft pulping liquor in EPA MRR, Table AA-1, TBLS converted to MM Btu assuming 6,000 Btu/lb BLS.
I) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission Factors for references G, H, I and J converted from #/ADTP to #/T BLS assuming 3,500 # BLS/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Residual Oil	360	MM Btu/hr	5	MM Btu/hr	24	7	365	354
AEI Group ID = 007, Process Unit ID = 3								
Title V Unit ID = 07. Equipment ID = 2505								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.22E-03	#/MM Btu	G	1	99%	**43.77**	**191.71**	**0.44**	**1.92**	**0.01**	**0.03**
Filterable particulate matter < 10 microns		Criteria	7.62E-04	#/MM Btu	G	1	99%	**27.44**	**120.18**	**0.27**	**1.20**	**0.00**	**0.02**
Filterable particulate matter < 2.5 microns		Criteria	5.08E-04	#/MM Btu	G	1	99%	**18.29**	**80.12**	**0.18**	**0.80**	**0.00**	**0.01**
Condensible particulate matter < 2.5 microns		Criteria	1.00E-02	#/MM Btu	M	1		**3.60**	**15.77**	**3.60**	**15.77**	**0.05**	**0.23**
Total paticulate matter								**47.37**	**207.48**	**4.04**	**17.69**	**0.06**	**0.25**
Total particulate matter < 10 microns		Criteria						**31.04**	**135.95**	**3.87**	**16.97**	**0.06**	**0.24**
Total particulate matter < 2.5 microns		Criteria						**21.89**	**95.89**	**3.78**	**16.57**	**0.05**	**0.24**
Sulfur dioxide	7446095	Criteria	2.20E+00	#/MM Btu	E	1		**791.28**	**3,465.81**	**791.28**	**3,465.81**	**11.37**	**49.81**
Volatile organic compounds (as carbon)		Criteria	5.07E-03	#/MM Btu	F	1		**1.82**	**7.99**	**1.82**	**7.99**	**0.03**	**0.11**
Volatile organic compounds (as VOC)		Criteria	5.07E-03	#/MM Btu	O	2.5		**4.56**	**19.97**	**4.56**	**19.97**	**0.07**	**0.29**
Carbon monoxide		Criteria	3.33E-02	#/MM Btu	E	1		**12.00**	**52.56**	**12.00**	**52.56**	**0.17**	**0.76**
Lead		Criteria	2.80E-05	#/MM Btu	K	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Nitrogen oxides		Criteria	3.13E-01	#/MM Btu	E	1		**112.80**	**494.06**	**112.80**	**494.06**	**1.62**	**7.10**
Carbon dioxide	124389	GHG	7.51E+01	kg/MM Btu	P	1		**59,603.17**	**261,061.90**	**59,603.17**	**261,061.90**	**856.60**	**3,751.92**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	P	1		**2.38**	**10.43**	**2.38**	**10.43**	**0.03**	**0.15**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	P	1		**0.48**	**2.09**	**0.48**	**2.09**	**0.01**	**0.03**
Carbon dioxide equivalent		GHG			Q	1		**59,800.79**	**261,927.48**	**59,800.79**	**261,927.48**	**859.44**	**3,764.36**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	7.98E-02	#/MM Btu	N	1.23		**35.19**	**154.14**	**35.19**	**154.14**	**0.51**	**2.22**
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.72**	**7.53**	**1.72**	**7.53**	**0.02**	**0.11**
1,1,1-Trichloroethane	71556	HAP	1.57E-06	#/MM Btu	I	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	3.50E-05	#/MM Btu	J	1.20		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	2.00E-05	#/MM Btu	L	1.32		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	3.00E-06	#/MM Btu	L	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.10E-07	#/MM Btu	L	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.04E-05	#/MM Btu	L	1.14		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	2.31E-03	#/MM Btu	J	1		**0.83**	**3.65**	**0.83**	**3.65**	**0.01**	**0.05**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	5.63E-06	#/MM Btu	J	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	4.04E-06	#/MM Btu	L	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	4.01E-05	#/MM Btu	J	1.27		**0.02**	**0.08**	**0.02**	**0.08**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.24E-07	#/MM Btu	I	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.07E-04	#/MM Btu	H	1		**0.15**	**0.64**	**0.15**	**0.64**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)	2.49E-04	#/MM Btu	J	1.05		**0.09**	**0.41**	**0.09**	**0.41**	**0.00**	**0.01**
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	2.80E-05	#/MM Btu	K	1.08		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	2.60E-05	#/MM Btu	L	1.29		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.15E-05	#/MM Btu	L	1.08		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	1.21E-05	#/MM Btu	L	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	1.06E-03	#/MM Btu	L	1.27		**0.49**	**2.13**	**0.49**	**2.13**	**0.01**	**0.03**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	7.27E-07	#/MM Btu	I	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Residual Oil	360	MM Btu/hr	5	MM Btu/hr	24	7	365	354
AEI Group ID = 007, Process Unit ID = 3								
Title V Unit ID = 07. Equipment ID = 2505								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP	6.31E-05	#/MM Btu	J	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP	8.67E-06	#/MM Btu	H	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.14E-05	#/MM Btu	L	1.41		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.13E-05	#/MM Btu	I	1		**0.01**	**0.07**	**0.01**	**0.07**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Utility Boilers.
E) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S.
F) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-3.
G) Maximum emission factors from AP-42 for Residual Oil-fired Utility Boilers with ESP's Table 1.3-4: assumes 2.1% Sulfur.
H) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-8.
I) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-9 (PCDD is OCDD).
J) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-11.
K) Emission factor from U.S. EPA document "Estimating Air Toxic Emissions from Coal and Oil Combustion Sources" [EPA-450/2-89-001] for Uncontrolled Residual Oil-fired Utility Boilers (Table 4-1).
L) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4b), Residual Oil-fired Utility Boilers.
M) Emission factor from AP-42 for Uncontrolled Residual Oil-fired Boilers - Table 1.3-2.
N) Maximum SO3 emission factor from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S. Process variablilty factor adjusts SO3 to H2SO4.
O) Primary VOC assumed to be formaldehyde.
P) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
Q) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/T BLS assuming 1,000 Btu/scf natural gas and 6,000 Btu/# BLS.
Emission factors for reference D converted from #/MM Btu to #/T BLS assuming 6,000 Btu/# BLS.
Emission factors for references E, F, G and H converted from #/10^3 gal oil to #/T BLS assuming 150,000 Btu/gal oil and 6,000 Btu/# BLS.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Worst-Case Emissions								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 07. Equipment ID = 5105								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								3,179.00	13,924.02	31.79	139.24	26.75	117.14
Filterable particulate matter < 10 microns		Criteria						1,683.00	7,371.54	16.83	73.72	14.16	62.02
Filterable particulate matter < 2.5 microns		Criteria						1,249.50	5,472.81	12.50	54.73	10.51	46.04
Condensible particulate matter < 2.5 microns		Criteria						5.02	21.97	5.02	21.97	4.26	18.67
Total paticulate matter								3,184.02	13,945.99	36.81	161.21	31.01	135.82
Total particulate matter < 10 microns		Criteria						1,688.02	7,393.51	21.85	95.68	18.42	80.70
Total particulate matter < 2.5 microns		Criteria						1,254.52	5,494.78	17.51	76.69	14.78	64.72
Sulfur dioxide	7446095	Criteria						791.28	3,465.81	791.28	3,465.81	25.47	111.57
Volatile organic compounds (as carbon)		Criteria						7.65	33.51	7.65	33.51	6.46	28.29
Volatile organic compounds (as VOC)		Criteria						11.90	52.12	11.90	52.12	10.07	44.10
Carbon monoxide		Criteria						102.85	450.48	102.85	450.48	86.67	379.63
Lead		Criteria						0.01	0.04	0.01	0.04	0.00	0.00
Nitrogen oxides		Criteria						127.50	558.45	127.50	558.45	108.68	476.03
Carbon dioxide	124389	GHG						59,603.17	261,061.90	59,603.17	261,061.90	754.38	3,304.20
Biogenic carbon dioxide	124389	GHG						424,550.26	1,859,530.16	424,550.26	1,859,530.16	357,102.79	1,564,110.23
Methane	74828	GHG, (112r)						134.92	590.95	134.92	590.95	113.52	497.20
Nitrous oxide	10024972	GHG						22.49	98.49	22.49	98.49	18.92	82.87
Carbon dioxide equivalent		GHG						434,354.50	1,902,472.70	434,354.50	1,902,472.70	366,106.28	1,603,545.52
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						35.19	154.14	35.19	154.14	1.86	8.16
Hydrogen Sulfide	7783064	NSPS, TAP						0.29	1.27	0.29	1.27	0.24	1.06
Total Reduced Sulfur (as TRS)		NSPS						0.49	2.17	0.49	2.17	0.42	1.82
Total Reduced Sulfur (as Sulfur)		NSPS						0.40	1.75	0.40	1.75	0.34	1.47
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						0.42	1.86	0.42	1.86	0.36	1.56
Total 112(b) Hazardous Air Pollutants								15.65	68.56	15.65	68.56	13.19	57.76
1,1,1-Trichloroethane	71556	HAP						0.05	0.22	0.05	0.22	0.04	0.19
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.05	0.22	0.05	0.22	0.04	0.19
1,2-Dichloroethane	107062	HAP						0.05	0.22	0.05	0.22	0.04	0.19
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.07	0.29	0.07	0.29	0.06	0.24
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						0.04	0.16	0.04	0.16	0.03	0.13
Acetophenone	98862	HAP, TAP						1.02	4.47	1.02	4.47	0.86	3.76
Acrolein	107028	HAP, TAP, (112r)						0.02	0.10	0.02	0.10	0.02	0.08
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.02	0.07	0.02	0.07	0.00	0.00
Arsenic Compounds		HAP, TAP						0.01	0.04	0.01	0.04	0.00	0.00
Benzene	71432	HAP, TAP						0.05	0.24	0.05	0.24	0.05	0.20
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.60	2.61	0.60	2.61	0.50	2.19
Carbon tetrachloride	56235	HAP, TAP						0.05	0.20	0.05	0.20	0.04	0.17
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.83	3.65	0.83	3.65	0.01	0.04
Chlorobenzene	108907	HAP, TAP						0.02	0.07	0.02	0.07	0.01	0.06
Chloroform	67663	HAP, TAP, (112r)						0.00	0.01	0.00	0.01	0.00	0.01
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.01	0.00	0.01	0.00	0.01
Chromium(+6) Compounds		HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.01
Cobalt Compounds		HAP, TAP						0.02	0.08	0.02	0.08	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						1.28	5.58	1.28	5.58	1.07	4.70
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						1.11	4.84	1.11	4.84	0.93	4.07
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.41	1.79	0.41	1.79	0.35	1.51
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						4.68	20.48	4.68	20.48	3.93	17.22
Hydrogen fluoride	7664393	HAP, (112r)						0.09	0.41	0.09	0.41	0.00	0.01
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
Manganese Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.02
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.02	0.10	0.02	0.10	0.00	0.00
Methanol	67561	HAP, TAP						3.74	16.38	3.74	16.38	3.15	13.78
Methyl ethyl ketone	78933	HAP, TAP						0.08	0.35	0.08	0.35	0.07	0.29
Methyl isobutyl ketone	108101	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.01
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.04	0.18	0.04	0.18	0.03	0.15
m-Xylene	108383	HAP, TAP						0.02	0.07	0.02	0.07	0.01	0.06
Naphthalene	91203	HAP, TAP						0.02	0.10	0.02	0.10	0.02	0.08
n-Hexane	110543	HAP, TAP						0.67	2.92	0.67	2.92	0.02	0.08
Nickel Compounds		HAP, TAP						0.49	2.13	0.49	2.13	0.01	0.04
o-Cresol	95487	HAP, TAP						1.11	4.84	1.11	4.84	0.93	4.07
o-Xylene	95476	HAP, TAP						0.03	0.12	0.03	0.12	0.02	0.10
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Worst-Case Emissions								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 07. Equipment ID = 5105								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.94**	**4.10**	**0.94**	**4.10**	**0.79**	**3.44**
Phosphorus	7723140	HAP, TAP						**0.02**	**0.10**	**0.02**	**0.10**	**0.01**	**0.06**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.06**
Selenium Compounds		HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.05**	**0.21**	**0.05**	**0.21**	**0.04**	**0.18**
Tetrachloroethylene	127184	HAP, TAP						**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.15**
Toluene	108883	HAP, TAP						**0.01**	**0.07**	**0.01**	**0.07**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP						**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.19**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Black Liquor Solids	2,040	Ton BLS/Day	1,789	Ton BLS/Day	24	7	365	350
AEI Group ID = 007, Process Unit ID = 6								
Title V Unit ID = 07. Equipment ID = 5105								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			3.74E-01	#/T BLS	F	1	99%	**3,179.00**	**13,924.02**	**31.79**	**139.24**	**26.74**	**117.12**
Filterable particulate matter < 10 microns		Criteria	1.98E-01	#/T BLS	F	1	99%	**1,683.00**	**7,371.54**	**16.83**	**73.72**	**14.16**	**62.00**
Filterable particulate matter < 2.5 microns		Criteria	1.47E-01	#/T BLS	F	1	99%	**1,249.50**	**5,472.81**	**12.50**	**54.73**	**10.51**	**46.03**
Condensible particulate matter < 2.5 microns		Criteria	5.90E-02	#/T BLS	F	1		**5.02**	**21.97**	**5.02**	**21.97**	**4.22**	**18.48**
Total paticulate matter						1		**3,184.02**	**13,945.99**	**36.81**	**161.21**	**30.96**	**135.60**
Total particulate matter < 10 microns		Criteria				1		**1,688.02**	**7,393.51**	**21.85**	**95.68**	**18.37**	**80.48**
Total particulate matter < 2.5 microns		Criteria				1		**1,254.52**	**5,494.78**	**17.51**	**76.69**	**14.73**	**64.51**
Sulfur dioxide	7446095	Criteria	2.20E-01	#/T BLS	E	1		**18.70**	**81.91**	**18.70**	**81.91**	**15.73**	**68.89**
Volatile organic compounds (as carbon)		Criteria	9.00E-02	#/T BLS	E	1		**7.65**	**33.51**	**7.65**	**33.51**	**6.43**	**28.18**
Volatile organic compounds (as VOC)		Criteria	1.40E-01	#/T BLS	G	1		**11.90**	**52.12**	**11.90**	**52.12**	**10.01**	**43.84**
Carbon monoxide		Criteria	1.21E+00	#/T BLS	E	1		**102.85**	**450.48**	**102.85**	**450.48**	**86.51**	**378.92**
Lead		Criteria	1.20E-05	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	1.50E+00	#/T BLS	E	1		**127.50**	**558.45**	**127.50**	**558.45**	**107.24**	**469.73**
Carbon dioxide	124389	GHG				1		**0.00**					
Biogenic carbon dioxide	124389	GHG	9.44E+01	kg/MM Btu	H	1		**424,550.26**	**1,859,530.16**	**424,550.26**	**1,859,530.16**	**357,102.79**	**1,564,110.23**
Methane	74828	GHG, (112r)	3.00E-02	kg/MM Btu	H	1		**134.92**	**590.95**	**134.92**	**590.95**	**113.49**	**497.07**
Nitrous oxide	10024972	GHG	5.00E-03	kg/MM Btu	H	1		**22.49**	**98.49**	**22.49**	**98.49**	**18.91**	**82.84**
Carbon dioxide equivalent		GHG			I	1		**434,354.50**	**1,902,472.70**	**434,354.50**	**1,902,472.70**	**365,349.45**	**1,600,230.57**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	2.00E-02	#/T BLS	A	1		**1.70**	**7.45**	**1.70**	**7.45**	**1.43**	**6.26**
Hydrogen Sulfide	7783064	NSPS, TAP	3.4E-03	#/T BLS	A	1		**0.29**	**1.27**	**0.29**	**1.27**	**0.24**	**1.06**
Total Reduced Sulfur (as TRS)		NSPS	5.8E-03	#/T BLS	C	1		**0.49**	**2.17**	**0.49**	**2.17**	**0.42**	**1.82**
Total Reduced Sulfur (as Sulfur)		NSPS	4.7E-03	#/T BLS	A	1		**0.40**	**1.75**	**0.40**	**1.75**	**0.34**	**1.47**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-03	#/T BLS	D	1		**0.42**	**1.86**	**0.42**	**1.86**	**0.36**	**1.56**
Total 112(b) Hazardous Air Pollutants								**15.65**	**68.56**	**15.65**	**68.56**	**13.17**	**57.67**
1,1,1-Trichloroethane	71556	HAP	6.00E-04	#/T BLS	A	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.19**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.00E-04	#/T BLS	A	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.19**
1,2-Dichloroethane	107062	HAP	6.00E-04	#/T BLS	A	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.19**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	7.70E-04	#/T BLS	A	1		**0.07**	**0.29**	**0.07**	**0.29**	**0.06**	**0.24**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	4.20E-04	#/T BLS	A	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.03**	**0.13**
Acetophenone	98862	HAP, TAP	1.20E-02	#/T BLS	A	1		**1.02**	**4.47**	**1.02**	**4.47**	**0.86**	**3.76**
Acrolein	107028	HAP, TAP, (112r	2.60E-04	#/T BLS	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	1.50E-06	#/T BLS	B	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	1.30E-08	#/T BLS	B	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	6.40E-04	#/T BLS	A	1		**0.05**	**0.24**	**0.05**	**0.24**	**0.05**	**0.20**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.30E-08	#/T BLS	B	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	7.10E-06	#/T BLS	B	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	7.00E-03	#/T BLS	A	1		**0.60**	**2.61**	**0.60**	**2.61**	**0.50**	**2.19**
Carbon tetrachloride	56235	HAP, TAP	5.50E-04	#/T BLS	A	1		**0.05**	**0.20**	**0.05**	**0.20**	**0.04**	**0.17**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.80E-04	#/T BLS	A	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.06**
Chloroform	67663	HAP, TAP, (112r	2.40E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP	1.90E-05	#/T BLS	B	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Chromium(+6) Compounds		HAP, TAP	1.40E-05	#/T BLS	B	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Cobalt Compounds		HAP, TAP	1.60E-06	#/T BLS	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	1.50E-02	#/T BLS	A	1		**1.28**	**5.58**	**1.28**	**5.58**	**1.07**	**4.70**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.30E-02	#/T BLS	A	1		**1.11**	**4.84**	**1.11**	**4.84**	**0.93**	**4.07**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.80E-03	#/T BLS	A	1		**0.41**	**1.79**	**0.41**	**1.79**	**0.34**	**1.50**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r	5.50E-02	#/T BLS	A	1		**4.68**	**20.48**	**4.68**	**20.48**	**3.93**	**17.22**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	1.20E-05	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	5.20E-05	#/T BLS	B	1.29		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	1.80E-07	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	4.40E-02	#/T BLS	A	1		**3.74**	**16.38**	**3.74**	**16.38**	**3.15**	**13.78**
Methyl ethyl ketone	78933	HAP, TAP	9.40E-04	#/T BLS	A	1		**0.08**	**0.35**	**0.08**	**0.35**	**0.07**	**0.29**
Methyl isobutyl ketone	108101	HAP, TAP	3.30E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.80E-04	#/T BLS	A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.15**
m-Xylene	108383	HAP, TAP	1.80E-04	#/T BLS	A	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.06**
Naphthalene	91203	HAP, TAP	2.60E-04	#/T BLS	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
n-Hexane	110543	HAP, TAP	2.50E-04	#/T BLS	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.08**
Nickel Compounds		HAP, TAP	3.30E-05	#/T BLS	B	1.27		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
o-Cresol	95487	HAP, TAP	1.30E-02	#/T BLS	A	1		**1.11**	**4.84**	**1.11**	**4.84**	**0.93**	**4.07**
o-Xylene	95476	HAP, TAP	3.30E-04	#/T BLS	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.10**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Black Liquor Solids	2,040	Ton BLS/Day	1,789	Ton BLS/Day	24	7	365	350
AEI Group ID = 007, Process Unit ID = 6								
Title V Unit ID = 07. Equipment ID = 5105								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	1.10E-02	#/T BLS	A	1		**0.94**	**4.10**	**0.94**	**4.10**	**0.79**	**3.44**
Phosphorus	7723140	HAP, TAP	2.00E-04	#/T BLS	B	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.06**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.80E-04	#/T BLS	A	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.06**
Selenium Compounds		HAP, TAP	8.00E-07	#/T BLS	B	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	5.60E-04	#/T BLS	A	1		**0.05**	**0.21**	**0.05**	**0.21**	**0.04**	**0.18**
Tetrachloroethylene	127184	HAP, TAP	4.80E-04	#/T BLS	A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.15**
Toluene	108883	HAP, TAP	3.30E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP	6.00E-04	#/T BLS	A	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.19**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 14A.
B) Emission factors from NCASI Technical Bulletin 858, Table 14B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.12.
F) Emission factors from NCASI 2012 Pulp and Paper Criteria Pollutant Database.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
H) Emission factor for north american softwood kraft pulping liquor in EPA MRR, Table AA-1, TBLS converted to MM Btu assuming 6,000 Btu/lb BLS.
I) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:

NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission Factors for references G, H, I and J converted from #/ADTP to #/T BLS assuming 3500 # BLS/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Natural Gas	370	MM Btu/hr	0	MM Btu/hr	24	7	365	352
AEI Group ID = 007, Process Unit ID = 7								
Title V Unit ID = 07. Equipment ID = 5105								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.70**	**3.08**	**0.70**	**3.08**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.70**	**3.08**	**0.70**	**3.08**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.70**	**3.08**	**0.70**	**3.08**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**2.11**	**9.24**	**2.11**	**9.24**	**0.00**	**0.00**
Total paticulate matter						1		**2.81**	**12.32**	**2.81**	**12.32**	**0.00**	**0.01**
Total particulate matter < 10 microns		Criteria				1		**2.81**	**12.32**	**2.81**	**12.32**	**0.00**	**0.01**
Total particulate matter < 2.5 microns		Criteria				1		**2.81**	**12.32**	**2.81**	**12.32**	**0.00**	**0.01**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.22**	**0.97**	**0.22**	**0.97**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**2.04**	**8.91**	**2.04**	**8.91**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**5.09**	**22.28**	**5.09**	**22.28**	**0.00**	**0.01**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**31.08**	**136.13**	**31.08**	**136.13**	**0.01**	**0.06**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.80E-01	#/MM Btu	A	1		**103.60**	**453.77**	**103.60**	**453.77**	**0.05**	**0.21**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**43,248.24**	**189,427.28**	**43,248.24**	**189,427.28**	**20.47**	**89.64**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.82**	**3.57**	**0.82**	**3.57**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.08**	**0.36**	**0.08**	**0.36**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**43,290.65**	**189,613.06**	**43,290.65**	**189,613.06**	**20.49**	**89.73**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.80**	**3.48**	**0.80**	**3.48**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.12**	**0.54**	**0.12**	**0.54**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.67**	**2.92**	**0.67**	**2.92**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Natural Gas	370	MM Btu/hr	0	MM Btu/hr	24	7	365	352
AEI Group ID = 007, Process Unit ID = 7								
Title V Unit ID = 07. Equipment ID = 5105								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Utility Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/T BLS assuming 1,000 Btu/scf natural gas and 6,000 Btu/# BLS.
Emission factors for reference D converted from #/MM Btu to #/T BLS assuming 6,000 Btu/# BLS.
Emission factors for references E, F, G and H converted from #/10^3 gal oil to #/T BLS assuming 150,000 Btu/gal oil and 6,000 Btu/# BLS.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Residual Oil	360	MM Btu/hr	5	MM Btu/hr	24	7	365	352
AEI Group ID = 007, Process Unit ID = 5								
Title V Unit ID = 07. Equipment ID = 5105								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.22E-03	#/MM Btu	G	1	99%	**43.77**	**191.71**	**0.44**	**1.92**	**0.01**	**0.02**
Filterable particulate matter < 10 microns		Criteria	7.62E-04	#/MM Btu	G	1	99%	**27.44**	**120.18**	**0.27**	**1.20**	**0.00**	**0.01**
Filterable particulate matter < 2.5 microns		Criteria	5.08E-04	#/MM Btu	G	1	99%	**18.29**	**80.12**	**0.18**	**0.80**	**0.00**	**0.01**
Condensible particulate matter < 2.5 microns		Criteria	1.00E-02	#/MM Btu	M	1		**3.60**	**15.77**	**3.60**	**15.77**	**0.04**	**0.19**
Total paticulate matter								**47.37**	**207.48**	**4.04**	**17.69**	**0.05**	**0.22**
Total particulate matter < 10 microns		Criteria						**31.04**	**135.95**	**3.87**	**16.97**	**0.05**	**0.21**
Total particulate matter < 2.5 microns		Criteria						**21.89**	**95.89**	**3.78**	**16.57**	**0.05**	**0.20**
Sulfur dioxide	7446095	Criteria	2.20E+00	#/MM Btu	E	1		**791.28**	**3,465.81**	**791.28**	**3,465.81**	**9.74**	**42.68**
Volatile organic compounds (as carbon)		Criteria	5.07E-03	#/MM Btu	F	1		**1.82**	**7.99**	**1.82**	**7.99**	**0.02**	**0.10**
Volatile organic compounds (as VOC)		Criteria	5.07E-03	#/MM Btu	O	2.5		**4.56**	**19.97**	**4.56**	**19.97**	**0.06**	**0.25**
Carbon monoxide		Criteria	3.33E-02	#/MM Btu	E	1		**12.00**	**52.56**	**12.00**	**52.56**	**0.15**	**0.65**
Lead		Criteria	2.80E-05	#/MM Btu	K	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Nitrogen oxides		Criteria	3.13E-01	#/MM Btu	E	1		**112.80**	**494.06**	**112.80**	**494.06**	**1.39**	**6.08**
Carbon dioxide	124389	GHG	7.51E+01	kg/MM Btu	P	1		**59,603.17**	**261,061.90**	**59,603.17**	**261,061.90**	**733.92**	**3,214.56**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	P	1		**2.38**	**10.43**	**2.38**	**10.43**	**0.03**	**0.13**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	P	1		**0.48**	**2.09**	**0.48**	**2.09**	**0.01**	**0.03**
Carbon dioxide equivalent		GHG			Q	1		**59,800.79**	**261,927.48**	**59,800.79**	**261,927.48**	**736.35**	**3,225.22**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	7.98E-02	#/MM Btu	N	1.23		**35.19**	**154.14**	**35.19**	**154.14**	**0.43**	**1.90**
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.72**	**7.53**	**1.72**	**7.53**	**0.02**	**0.09**
1,1,1-Trichloroethane	71556	HAP	1.57E-06	#/MM Btu	I	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	3.50E-05	#/MM Btu	J	1.20		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	2.00E-05	#/MM Btu	L	1.32		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	3.00E-06	#/MM Btu	L	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.10E-07	#/MM Btu	L	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.04E-05	#/MM Btu	L	1.14		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	2.31E-03	#/MM Btu	J	1		**0.83**	**3.65**	**0.83**	**3.65**	**0.01**	**0.04**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	5.63E-06	#/MM Btu	J	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	4.04E-06	#/MM Btu	L	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	4.01E-05	#/MM Btu	J	1.27		**0.02**	**0.08**	**0.02**	**0.08**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.24E-07	#/MM Btu	I	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.07E-04	#/MM Btu	H	1		**0.15**	**0.64**	**0.15**	**0.64**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)	2.49E-04	#/MM Btu	J	1.05		**0.09**	**0.41**	**0.09**	**0.41**	**0.00**	**0.01**
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	2.80E-05	#/MM Btu	K	1.08		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	2.60E-05	#/MM Btu	L	1.29		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.15E-05	#/MM Btu	L	1.08		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	1.21E-05	#/MM Btu	L	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	1.06E-03	#/MM Btu	L	1.27		**0.49**	**2.13**	**0.49**	**2.13**	**0.01**	**0.03**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	7.27E-07	#/MM Btu	I	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Residual Oil	360	MM Btu/hr	5	MM Btu/hr	24	7	365	352
AEI Group ID = 007, Process Unit ID = 5								
Title V Unit ID = 07. Equipment ID = 5105								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP	6.31E-05	#/MM Btu	J	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP	8.67E-06	#/MM Btu	H	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.14E-05	#/MM Btu	L	1.41		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.13E-05	#/MM Btu	I	1		**0.01**	**0.07**	**0.01**	**0.07**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Utility Boilers.
E) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S.
F) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-3.
G) Maximum emission factors from AP-42 for Residual Oil-fired Utility Boilers with ESP's Table 1.3-4: assumes 2.1% Sulfur.
H) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-8.
I) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-9 (PCDD is OCDD).
J) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-11.
K) Emission factor from U.S. EPA document "Estimating Air Toxic Emissions from Coal and Oil Combustion Sources" [EPA-450/2-89-001] for Uncontrolled Residual Oil-fired Utility Boilers (Table 4-1).
L) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4b), Residual Oil-fired Utility Boilers.
M) PM-10 and PM-2.5 ratio based on AP-42, Table 1.3-4.
N) Maximum SO3 emission factor from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S. Process variablilty factor adjusts SO3 to H2SO4.
O) Primary VOC assumed to be formaldehyde.
P) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
Q) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/T BLS assuming 1,000 Btu/scf natural gas and 6,000 Btu/# BLS.
Emission factors for reference D converted from #/MM Btu to #/T BLS assuming 6,000 Btu/# BLS.
Emission factors for references E, F, G and H converted from #/10^3 gal oil to #/T BLS assuming 150,000 Btu/gal oil and 6,000 Btu/# BLS.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Smelt Tank 2	1,129.0	Ton BLS/Day	934.6	Ton BLS/Day	24	7	365	349
AEI Group ID = 007, Process Unit ID = 8								
Title V Unit ID = 07. Equipment ID = 2510								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.46E-01	#/T BLS	F	1	98%	**343.40**	**1,504.11**	**6.87**	**30.08**	**5.44**	**23.83**
Filterable particulate matter < 10 microns		Criteria	8.50E-03	#/T BLS	F	1	98%	**19.99**	**87.57**	**0.40**	**1.75**	**0.32**	**1.39**
Filterable particulate matter < 2.5 microns		Criteria	8.50E-03	#/T BLS	F	1	98%	**19.99**	**87.57**	**0.40**	**1.75**	**0.32**	**1.39**
Condensible particulate matter < 2.5 microns		Criteria	8.50E-03	#/T BLS	F	1		**0.40**	**1.75**	**0.40**	**1.75**	**0.32**	**1.39**
Total paticulate matter						1		**343.80**	**1,505.86**	**7.27**	**31.83**	**5.76**	**25.21**
Total particulate matter < 10 microns		Criteria				1		**20.39**	**89.32**	**0.80**	**3.50**	**0.63**	**2.77**
Total particulate matter < 2.5 microns		Criteria				1		**20.39**	**89.32**	**0.80**	**3.50**	**0.63**	**2.77**
Sulfur dioxide	7446095	Criteria	5.00E-03	#/T BLS	E	1		**0.24**	**1.03**	**0.24**	**1.03**	**0.19**	**0.82**
Volatile organic compounds (as carbon)		Criteria	1.00E-02	#/T BLS	E	1		**0.47**	**2.06**	**0.47**	**2.06**	**0.37**	**1.63**
Volatile organic compounds (as VOC)		Criteria	2.50E-02	#/T BLS	G	1		**1.18**	**5.15**	**1.18**	**5.15**	**0.93**	**4.08**
Carbon monoxide		Criteria	8.00E-03	#/T BLS	E	1		**0.38**	**1.65**	**0.38**	**1.65**	**0.30**	**1.31**
Lead		Criteria	3.40E-06	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.00E-02	#/T BLS	E	1		**0.94**	**4.12**	**0.94**	**4.12**	**0.75**	**3.26**
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	6.80E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP	6.0E-03	#/T BLS	A	1		**0.28**	**1.24**	**0.28**	**1.24**	**0.22**	**0.98**
Total Reduced Sulfur (as TRS)		NSPS	7.9E-03	#/T BLS	A	1		**0.37**	**1.63**	**0.37**	**1.63**	**0.30**	**1.29**
Total Reduced Sulfur (as Sulfur)		NSPS	6.9E-03	#/T BLS	A	1		**0.32**	**1.42**	**0.32**	**1.42**	**0.26**	**1.13**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	7.3E-03	#/T BLS	D	1		**0.34**	**1.51**	**0.34**	**1.51**	**0.27**	**1.20**
Total 112(b) Hazardous Air Pollutants								**0.90**	**3.92**	**0.90**	**3.92**	**0.71**	**3.11**
1,1,1-Trichloroethane	71556	HAP	5.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.70E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	4.10E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	2.60E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.80E-04	#/T BLS	A	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Acetophenone	98862	HAP, TAP	9.50E-04	#/T BLS	A	1		**0.04**	**0.20**	**0.04**	**0.20**	**0.04**	**0.16**
Acrolein	107028	HAP, TAP, (112r	7.50E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	2.20E-07	#/T BLS	B	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	1.40E-08	#/T BLS	B	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	5.50E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.80E-07	#/T BLS	B	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	1.00E-05	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	1.30E-05	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP	9.50E-07	#/T BLS	B	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	2.50E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP	1.90E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Carbonyl sulfide	463581	HAP, TAP, (112r	2.40E-04	#/T BLS	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	2.00E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	2.30E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r	1.10E-04	#/T BLS	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.02**
Chromium Compounds		HAP	3.70E-06	#/T BLS	B	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	3.40E-06	#/T BLS	B	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	3.10E-07	#/T BLS	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	2.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.50E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.50E-03	#/T BLS	A	1		**0.16**	**0.72**	**0.16**	**0.72**	**0.13**	**0.57**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP	1.10E-04	#/T BLS	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.02**
Hexachloroethane	67721	HAP, TAP	1.90E-03	#/T BLS	A	1		**0.09**	**0.39**	**0.09**	**0.39**	**0.07**	**0.31**
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	3.40E-06	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	1.30E-05	#/T BLS	B	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	9.00E-09	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	9.30E-03	#/T BLS	A	1		**0.44**	**1.92**	**0.44**	**1.92**	**0.35**	**1.52**
Methyl ethyl ketone	78933	HAP, TAP	1.40E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	3.00E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	8.30E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	4.70E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP	5.00E-04	#/T BLS	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.08**
n-Hexane	110543	HAP, TAP	5.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	2.40E-06	#/T BLS	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP	8.50E-04	#/T BLS	A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.14**
o-Xylene	95476	HAP, TAP	1.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Smelt Tank 2	1,129.0	Ton BLS/Day	934.6	Ton BLS/Day	24	7	365	349
AEI Group ID = 007, Process Unit ID = 8								
Title V Unit ID = 07. Equipment ID = 2510								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	7.50E-04	#/T BLS	A	1		**0.04**	**0.15**	**0.04**	**0.15**	**0.03**	**0.12**
Phosphorus	7723140	HAP, TAP	1.70E-05	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	4.70E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	2.90E-07	#/T BLS	B	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	1.20E-04	#/T BLS	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.02**
Tetrachloroethylene	127184	HAP, TAP	3.70E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.80E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.50E-05	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r	4.40E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 17A.
B) Emission factors from NCASI Technical Bulletin 858, Table 17B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.15.
F) Emission factors from NCASI 2012 Pulp and Paper Criteria Pollutant Database.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission Factors for references F, G, H and J converted from #/ADTP to #/T BLS assuming 3,500 # BLS/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Smelt Tank 3	2,040	Ton BLS/Day	1,789	Ton BLS/Day	24	7	365	350
AEI Group ID = 007, Process Unit ID = 9								
Title V Unit ID = 07. Equipment ID = 5110								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.46E-01	#/T BLS	F	1	98%	**620.50**	**2,717.79**	**12.41**	**54.36**	**10.44**	**45.72**
Filterable particulate matter < 10 microns		Criteria	8.50E-03	#/T BLS	F	1	98%	**36.13**	**158.23**	**0.72**	**3.16**	**0.61**	**2.66**
Filterable particulate matter < 2.5 microns		Criteria	8.50E-03	#/T BLS	F	1	98%	**36.13**	**158.23**	**0.72**	**3.16**	**0.61**	**2.66**
Condensible particulate matter < 2.5 microns		Criteria	8.50E-03	#/T BLS	F	1		**0.72**	**3.16**	**0.72**	**3.16**	**0.61**	**2.66**
Total paticulate matter						1		**621.22**	**2,720.95**	**13.13**	**57.52**	**11.05**	**48.38**
Total particulate matter < 10 microns		Criteria				1		**36.85**	**161.39**	**1.45**	**6.33**	**1.22**	**5.32**
Total particulate matter < 2.5 microns		Criteria				1		**36.85**	**161.39**	**1.45**	**6.33**	**1.22**	**5.32**
Sulfur dioxide	7446095	Criteria	5.00E-03	#/T BLS	E	1		**0.43**	**1.86**	**0.43**	**1.86**	**0.36**	**1.57**
Volatile organic compounds (as carbon)		Criteria	1.00E-02	#/T BLS	E	1		**0.85**	**3.72**	**0.85**	**3.72**	**0.71**	**3.13**
Volatile organic compounds (as VOC)		Criteria	2.50E-02	#/T BLS	G	1		**2.13**	**9.31**	**2.13**	**9.31**	**1.79**	**7.83**
Carbon monoxide		Criteria	8.00E-03	#/T BLS	E	1		**0.68**	**2.98**	**0.68**	**2.98**	**0.57**	**2.51**
Lead		Criteria	3.40E-06	#/T BLS	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.00E-02	#/T BLS	E	1		**1.70**	**7.45**	**1.70**	**7.45**	**1.43**	**6.26**
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	6.80E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP	6.0E-03	#/T BLS	A	1		**0.51**	**2.23**	**0.51**	**2.23**	**0.43**	**1.88**
Total Reduced Sulfur (as TRS)		NSPS	7.9E-03	#/T BLS	A	1		**0.67**	**2.95**	**0.67**	**2.95**	**0.57**	**2.48**
Total Reduced Sulfur (as Sulfur)		NSPS	6.9E-03	#/T BLS	A	1		**0.59**	**2.57**	**0.59**	**2.57**	**0.49**	**2.16**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	7.3E-03	#/T BLS	D	1		**0.62**	**2.73**	**0.62**	**2.73**	**0.52**	**2.30**
Total 112(b) Hazardous Air Pollutants								**1.62**	**7.09**	**1.62**	**7.09**	**1.36**	**5.96**
1,1,1-Trichloroethane	71556	HAP	5.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.70E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	4.10E-05	#/T BLS	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	2.60E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.80E-04	#/T BLS	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.09**
Acetophenone	98862	HAP, TAP	9.50E-04	#/T BLS	A	1		**0.08**	**0.35**	**0.08**	**0.35**	**0.07**	**0.30**
Acrolein	107028	HAP, TAP, (112r	7.50E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	2.20E-07	#/T BLS	B	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	1.40E-08	#/T BLS	B	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	5.50E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.80E-07	#/T BLS	B	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	1.00E-05	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	1.30E-05	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP	9.50E-07	#/T BLS	B	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	2.50E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP	1.90E-04	#/T BLS	A	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.06**
Carbonyl sulfide	463581	HAP, TAP, (112r	2.40E-04	#/T BLS	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.08**
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	2.00E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	2.30E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r	1.10E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Chromium Compounds		HAP	3.70E-06	#/T BLS	B	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	3.40E-06	#/T BLS	B	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	3.10E-07	#/T BLS	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	2.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.50E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.50E-03	#/T BLS	A	1		**0.30**	**1.30**	**0.30**	**1.30**	**0.25**	**1.10**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP	1.10E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Hexachloroethane	67721	HAP, TAP	1.90E-03	#/T BLS	A	1		**0.16**	**0.71**	**0.16**	**0.71**	**0.14**	**0.59**
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	3.40E-06	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	1.30E-05	#/T BLS	B	1.29		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	9.00E-09	#/T BLS	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	9.30E-03	#/T BLS	A	1		**0.79**	**3.46**	**0.79**	**3.46**	**0.66**	**2.91**
Methyl ethyl ketone	78933	HAP, TAP	1.40E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	3.00E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	8.30E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	4.70E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP	5.00E-04	#/T BLS	A	1		**0.04**	**0.19**	**0.04**	**0.19**	**0.04**	**0.16**
n-Hexane	110543	HAP, TAP	5.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	2.40E-06	#/T BLS	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP	8.50E-04	#/T BLS	A	1		**0.07**	**0.32**	**0.07**	**0.32**	**0.06**	**0.27**
o-Xylene	95476	HAP, TAP	1.90E-07	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Smelt Tank 3	2,040	Ton BLS/Day	1,789	Ton BLS/Day	24	7	365	350
AEI Group ID = 007, Process Unit ID = 9								
Title V Unit ID = 07. Equipment ID = 5110								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	7.50E-04	#/T BLS	A	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.05**	**0.23**
Phosphorus	7723140	HAP, TAP	1.70E-05	#/T BLS	B	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	4.70E-08	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	2.90E-07	#/T BLS	B	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	1.20E-04	#/T BLS	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.04**
Tetrachloroethylene	127184	HAP, TAP	3.70E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.80E-06	#/T BLS	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.50E-05	#/T BLS	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r	4.40E-05	#/T BLS	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 17A.
B) Emission factors from NCASI Technical Bulletin 858, Table 17B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.15.
F) Emission factors from NCASI 2012 Pulp and Paper Criteria Pollutant Database.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission Factors for references F, G, H and J converted from #/ADTP to #/T BLS assuming 3500 # BLS/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Lime Kiln 2	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351
AEI Group ID = 007, Process Unit ID = 10	141	MM Btu/hr	94	MM Btu/hr				
Title V Unit ID = 07. Equipment ID = 2723								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	REFERENCE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			8.90E-02	#/T CaO	F	1	99%	**172.44**	**755.28**	**1.72**	**7.55**	**1.11**	**4.85**
Filterable particulate matter < 10 microns		Criteria	2.93E-02	#/T CaO	F	1	99%	**56.77**	**248.65**	**0.57**	**2.49**	**0.36**	**1.60**
Filterable particulate matter < 2.5 microns		Criteria	9.26E-03	#/T CaO	F	1	99%	**17.94**	**78.58**	**0.18**	**0.79**	**0.12**	**0.50**
Condensible particulate matter < 2.5 microns		Criteria	1.75E-01	#/T CaO	F	1		**3.39**	**14.85**	**3.39**	**14.85**	**2.18**	**9.53**
Total paticulate matter						1		**175.83**	**770.13**	**5.12**	**22.40**	**3.28**	**14.38**
Total particulate matter < 10 microns		Criteria				1		**60.16**	**263.50**	**3.96**	**17.34**	**2.54**	**11.13**
Total particulate matter < 2.5 microns		Criteria				1		**21.33**	**93.43**	**3.57**	**15.64**	**2.29**	**10.03**
Sulfur dioxide	7446095	Criteria	3.30E-01	#/T CaO	E	1		**6.39**	**28.00**	**6.39**	**28.00**	**4.10**	**17.97**
Volatile organic compounds (as carbon)		Criteria	2.30E-02	#/T CaO	E	1		**0.45**	**1.95**	**0.45**	**1.95**	**0.29**	**1.25**
Volatile organic compounds (as VOC)		Criteria	5.30E-02	#/T CaO	I	1		**1.03**	**4.50**	**1.03**	**4.50**	**0.66**	**2.89**
Carbon monoxide		Criteria	1.28E-01	#/T CaO	L	1		**2.48**	**10.86**	**2.48**	**10.86**	**1.59**	**6.97**
Lead		Criteria	1.50E-05	#/T CaO	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.12E+00	#/T CaO	K	1		**41.08**	**179.91**	**41.08**	**179.91**	**26.36**	**115.46**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	Q, S	1		**16,481.08**	**72,187.15**	**16,481.08**	**72,187.15**	**10,576.79**	**46,326.35**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	Q, S	1		**0.31**	**1.36**	**0.31**	**1.36**	**0.20**	**0.87**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	Q, S	1		**0.03**	**0.14**	**0.03**	**0.14**	**0.02**	**0.09**
Carbon dioxide equivalent					R	1		**16,497.25**	**72,257.95**	**16,497.25**	**72,257.95**	**10,587.17**	**46,371.79**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	6.80E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP	5.0E-02	#/T CaO	A	1		**0.97**	**4.24**	**0.97**	**4.24**	**0.62**	**2.72**
Total Reduced Sulfur (as TRS)		NSPS	5.0E-02	#/T CaO	C	1		**0.97**	**4.25**	**0.97**	**4.25**	**0.62**	**2.72**
Total Reduced Sulfur (as Sulfur)		NSPS	4.7E-02	#/T CaO	A	1		**0.91**	**3.99**	**0.91**	**3.99**	**0.58**	**2.56**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-02	#/T CaO	D	1		**0.97**	**4.24**	**0.97**	**4.24**	**0.62**	**2.72**
Total 112(b) Hazardous Air Pollutants								**1.65**	**7.21**	**1.65**	**7.21**	**1.06**	**4.63**
1,1,1-Trichloroethane	71556	HAP	8.00E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	3.80E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
1,2-Dichloroethane	107062	HAP	3.70E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	1.30E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	9.60E-04	#/T CaO	A	1		**0.02**	**0.08**	**0.02**	**0.08**	**0.01**	**0.05**
Acetophenone	98862	HAP, TAP	5.50E-03	#/T CaO	A	1		**0.11**	**0.47**	**0.11**	**0.47**	**0.07**	**0.30**
Acrolein	107028	HAP, TAP, (112r	2.10E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	1.50E-06	#/T CaO	B	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	5.40E-07	#/T CaO	B	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	3.30E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.60E-06	#/T CaO	B	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	1.60E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Cadmium Compounds		HAP, TAP	1.10E-05	#/T CaO	B	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	2.90E-04	#/T CaO	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.02**
Carbon tetrachloride	56235	HAP, TAP	1.50E-03	#/T CaO	A	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.08**
Carbonyl sulfide	463581	HAP, TAP, (112r	3.90E-03	#/T CaO	A	1		**0.08**	**0.33**	**0.08**	**0.33**	**0.05**	**0.21**
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.10E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	3.60E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r	1.70E-03	#/T CaO	A	1		**0.03**	**0.14**	**0.03**	**0.14**	**0.02**	**0.09**
Chromium Compounds		HAP	3.30E-05	#/T CaO	B	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	7.70E-06	#/T CaO	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	5.50E-03	#/T CaO	A	1		**0.11**	**0.47**	**0.11**	**0.47**	**0.07**	**0.30**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	3.00E-03	#/T CaO	A	1		**0.06**	**0.25**	**0.06**	**0.25**	**0.04**	**0.16**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	1.50E-03	#/T CaO	A	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.08**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP	1.20E-02	#/T CaO	A	1		**0.23**	**1.02**	**0.23**	**1.02**	**0.15**	**0.65**
Hexachloroethane	67721	HAP, TAP	1.00E-02	#/T CaO	A	1		**0.19**	**0.85**	**0.19**	**0.85**	**0.12**	**0.54**
Hydrochloric acid	7647010	HAP, TAP, (112r	2.10E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	1.50E-05	#/T CaO	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.30E-05	#/T CaO	B	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP	9.50E-03	#/T CaO	A	1		**0.18**	**0.81**	**0.18**	**0.81**	**0.12**	**0.52**
Mercury Compounds		HAP	3.00E-08	#/T CaO	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	8.00E-03	#/T CaO	A	1		**0.16**	**0.68**	**0.16**	**0.68**	**0.10**	**0.44**
Methyl ethyl ketone	78933	HAP, TAP	4.30E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	2.00E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	4.20E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	6.80E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP	1.30E-02	#/T CaO	A	1		**0.25**	**1.10**	**0.25**	**1.10**	**0.16**	**0.71**
n-Hexane	110543	HAP, TAP	2.10E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	4.10E-05	#/T CaO	B	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP	4.70E-03	#/T CaO	A	1		**0.09**	**0.40**	**0.09**	**0.40**	**0.06**	**0.26**
o-Xylene	95476	HAP, TAP	2.10E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Lime Kiln 2	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351
AEI Group ID = 007, Process Unit ID = 10	141	MM Btu/hr	94	MM Btu/hr				
Title V Unit ID = 07. Equipment ID = 2723								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	REFERENCE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	2.70E-04	#/T CaO	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.01**
Phosphorus	7723140	HAP, TAP	5.00E-04	#/T CaO	B	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	6.80E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	2.80E-07	#/T CaO	B	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	5.70E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	2.60E-04	#/T CaO	A	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.01**
Toluene	108883	HAP, TAP	1.50E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	3.70E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Vinyl acetate	108054	HAP, TAP, (112r	8.00E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 16A.
B) Emission factors from NCASI Technical Bulletin 858, Table 16B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.13 - Oil-fired Lime Kiln with ESP.
F) Emission factors from NCASI 2012 Pulp and Paper Criteria Pollutant Database - Oil-fired Lime kiln with ESP.

I) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
J) Emission limit from permit 2440-0005-CI, Condition II.A. converted from ppm into lb/hr and tpy (maximum emissions only).
K) Emission factor calculated using Bowater stack testing on 3/30/2010 (159 ppm) and 9/13/2011 (162 ppm).
L) Emission factor from 8/28/2008 Bowater stack test.

24900.00

Q) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
R) Emission factor based on GWP in EPA MRR, Table A-1.
S) Average heat input based on maximum heat input and lime production.

9. NOTES:
NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission Factors for reference K converted from #/ADTP to #/T CaO assuming 550 # CaO/ADTP.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351
AEI Group ID = 007, Process Unit ID = 11								
Title V Unit ID = 07. Equipment ID = 2700 to 2703								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								**174.63**	**764.86**	**1.75**	**7.65**	**0.93**	**3.98**
Filterable particulate matter < 10 microns		Criteria						**134.50**	**589.10**	**1.34**	**5.89**	**0.73**	**3.13**
Filterable particulate matter < 2.5 microns		Criteria						**64.15**	**280.98**	**0.64**	**2.81**	**0.38**	**1.63**
Condensible particulate matter < 2.5 microns		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total paticulate matter								**174.63**	**764.86**	**1.75**	**7.65**	**0.93**	**3.98**
Total particulate matter < 10 microns		Criteria						**134.50**	**589.10**	**1.34**	**5.89**	**0.73**	**3.13**
Total particulate matter < 2.5 microns		Criteria						**64.15**	**280.98**	**0.64**	**2.81**	**0.38**	**1.63**
Sulfur dioxide	7446095	Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria						**2.84**	**12.43**	**2.95**	**12.91**	**1.89**	**8.28**
Volatile organic compounds (as VOC)		Criteria						**6.42**	**28.11**	**6.67**	**29.22**	**4.29**	**18.75**
Carbon monoxide		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfuric acid mist	7664939	TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS						**0.12**	**0.52**	**0.20**	**0.88**	**0.13**	**0.56**
Total Reduced Sulfur (as Sulfur)		NSPS						**0.07**	**0.33**	**0.13**	**0.55**	**0.08**	**0.35**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.08**	**0.35**	**0.13**	**0.58**	**0.09**	**0.37**
Total 112(b) Hazardous Air Pollutants								**4.51**	**19.77**	**4.92**	**21.56**	**3.17**	**13.84**
1,1,1-Trichloroethane	71556	HAP						**0.00**	**0.02**	**0.01**	**0.03**	**0.01**	**0.02**
1,1-Dichloroethane	75343	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP						**0.01**	**0.02**	**0.01**	**0.04**	**0.01**	**0.02**
1,2-Dichloroethane	107062	HAP						**0.00**	**0.02**	**0.01**	**0.04**	**0.01**	**0.02**
1,2-Dichloropropane	78875	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2,4-Trichlorobenzene	120821	HAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
1,4-Dichlorobenzene	106467	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r)						**0.16**	**0.70**	**0.16**	**0.71**	**0.10**	**0.45**
Acetophenone	98862	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r)						**0.00**	**0.01**	**0.00**	**0.02**	**0.00**	**0.01**
Acrylonitrile	107131	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Benzyl chloride	100447	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP						**0.02**	**0.10**	**0.04**	**0.16**	**0.02**	**0.11**
Carbonyl sulfide	463581	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Catechol	120809	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Chloroform	67663	HAP, TAP, (112r)						**0.02**	**0.08**	**0.03**	**0.13**	**0.02**	**0.08**
Chloromethane	74873	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r)						**0.01**	**0.06**	**0.06**	**0.25**	**0.04**	**0.16**
Glycol Ethers		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachloroethane	67721	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen fluoride	7664393	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Iodomethane	74884	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP						**4.17**	**18.25**	**4.46**	**19.53**	**2.87**	**12.53**
Methyl ethyl ketone	78933	HAP, TAP						**0.04**	**0.17**	**0.04**	**0.19**	**0.03**	**0.12**
Methyl isobutyl ketone	108101	HAP, TAP						**0.00**	**0.02**	**0.01**	**0.02**	**0.00**	**0.01**
Methyl hydrazine	60334	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP						**0.01**	**0.05**	**0.02**	**0.08**	**0.01**	**0.05**
m-Xylene	108383	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.06**	**0.01**	**0.04**
Naphthalene	91203	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
p-Cresol	106445	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351
AEI Group ID = 007, Process Unit ID = 11								
Title V Unit ID = 07. Equipment ID = 2700 to 2703								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.06**	**0.01**	**0.04**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.03**
Tetrachloroethylene	127184	HAP, TAP						**0.01**	**0.02**	**0.01**	**0.04**	**0.01**	**0.03**
Toluene	108883	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.04**	**0.01**	**0.02**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.02**	**0.01**	**0.04**	**0.01**	**0.02**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Slaker and Causticizers	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700, 2701

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			2.2E-02	#/T CaO	E	1	99%	**42.63**	**186.70**	**0.43**	**1.87**	**0.27**	**1.20**
Filterable particulate matter < 10 microns		Criteria	2.2E-02	#/T CaO	G	1	99%	**42.63**	**186.70**	**0.43**	**1.87**	**0.27**	**1.20**
Filterable particulate matter < 2.5 microns		Criteria	2.0E-02	#/T CaO	G	1	99%	**39.60**	**173.44**	**0.40**	**1.73**	**0.25**	**1.11**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**42.63**	**186.70**	**0.43**	**1.87**	**0.27**	**1.20**
Total particulate matter < 10 microns		Criteria				1		**42.63**	**186.70**	**0.43**	**1.87**	**0.27**	**1.20**
Total particulate matter < 2.5 microns		Criteria				1		**39.60**	**173.44**	**0.40**	**1.73**	**0.25**	**1.11**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	5.7E-02	#/T CaO	E	1		**1.10**	**4.84**	**1.10**	**4.84**	**0.71**	**3.10**
Volatile organic compounds (as VOC)		Criteria	1.1E-01	#/T CaO	F	1		**2.13**	**9.33**	**2.13**	**9.33**	**1.37**	**5.99**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	2.0E-03	#/T CaO	C	1		**0.04**	**0.17**	**0.04**	**0.17**	**0.02**	**0.11**
Total Reduced Sulfur (as Sulfur)		NSPS	1.2E-03	#/T CaO	B	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.07**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.3E-03	#/T CaO	D	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.07**
Total 112(b) Hazardous Air Pollutants								**1.26**	**5.54**	**1.26**	**5.54**	**0.81**	**3.56**
1,1,1-Trichloroethane	71556	HAP	1.3E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.3E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloroethane	107062	HAP	1.2E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	3.9E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	6.8E-03	#/T CaO	A	1		**0.13**	**0.58**	**0.13**	**0.58**	**0.08**	**0.37**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	4.7E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	5.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	5.8E-04	#/T CaO	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.03**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	3.5E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	4.5E-04	#/T CaO	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.02**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.7E-04	#/T CaO	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	5.4E-02	#/T CaO	A	1		**1.05**	**4.58**	**1.05**	**4.58**	**0.67**	**2.94**
Methyl ethyl ketone	78933	HAP, TAP	1.2E-03	#/T CaO	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.01**	**0.07**
Methyl isobutyl ketone	108101	HAP, TAP	4.9E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	2.4E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
m-Xylene	108383	HAP, TAP	4.1E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	4.3E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	3.4E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Slaker and Causticizers	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary
Title V Unit ID = 07. Equipment ID = 2700, 2701

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	4.1E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	4.0E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Tetrachloroethylene	127184	HAP, TAP	9.6E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Toluene	108883	HAP, TAP	1.7E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP	1.2E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 849, Table 24.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) PM-10 and PM-2.5 ratio based on NCASI Technical Bulletin 884, Table 4.13 (lime kiln w/scrubber).

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Precoat Filters	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	4.1E-03	#/T CaO	E	1		**0.08**	**0.35**	**0.08**	**0.35**	**0.05**	**0.22**
Volatile organic compounds (as VOC)		Criteria	9.7E-03	#/T CaO	F	1		**0.19**	**0.82**	**0.19**	**0.82**	**0.12**	**0.53**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	2.3E-03	#/T CaO	C	1		**0.04**	**0.20**	**0.04**	**0.20**	**0.03**	**0.13**
Total Reduced Sulfur (as Sulfur)		NSPS	1.5E-03	#/T CaO	B	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.08**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.6E-03	#/T CaO	D	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.09**
Total 112(b) Hazardous Air Pollutants								**0.30**	**1.33**	**0.30**	**1.33**	**0.19**	**0.85**
1,1,1-Trichloroethane	71556	HAP	8.5E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	9.9E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloroethane	107062	HAP	9.8E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	4.5E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.1E-03	#/T CaO	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	5.3E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	1.9E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	4.6E-04	#/T CaO	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	6.2E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	3.6E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	2.1E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.2E-02	#/T CaO	A	1		**0.23**	**1.02**	**0.23**	**1.02**	**0.15**	**0.65**
Methyl ethyl ketone	78933	HAP, TAP	1.5E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	9.2E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	1.9E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
m-Xylene	108383	HAP, TAP	8.2E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	6.8E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	4.5E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Precoat Filters	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary
Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	8.2E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	3.7E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	6.3E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.9E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP	9.8E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Precoat Filter Vacuum Pumps	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.8E-02	#/T CaO	E	1		**0.35**	**1.53**	**0.35**	**1.53**	**0.22**	**0.98**
Volatile organic compounds (as VOC)		Criteria	3.9E-02	#/T CaO	F	1		**0.76**	**3.31**	**0.76**	**3.31**	**0.48**	**2.12**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	1.1E-03	#/T CaO	C	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
Total Reduced Sulfur (as Sulfur)		NSPS	6.3E-04	#/T CaO	B	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.03**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	6.7E-04	#/T CaO	D	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.04**
Total 112(b) Hazardous Air Pollutants								**0.38**	**1.67**	**0.38**	**1.67**	**0.24**	**1.07**
1,1,1-Trichloroethane	71556	HAP	2.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	2.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	2.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	3.3E-04	#/T CaO	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.0E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	8.7E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	9.2E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	7.4E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.3E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	7.1E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	2.8E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.8E-02	#/T CaO	A	1		**0.35**	**1.53**	**0.35**	**1.53**	**0.22**	**0.98**
Methyl ethyl ketone	78933	HAP, TAP	4.9E-04	#/T CaO	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Methyl isobutyl ketone	108101	HAP, TAP	7.6E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	5.6E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.5E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP		#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	2.3E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Precoat Filter Vacuum Pumps	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary
Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.5E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.4E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	9.7E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Toluene	108883	HAP, TAP	8.1E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	2.2E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Green Liquor Clarifier	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	6.6E-02	#/T CaO	E	1		**1.28**	**5.60**	**1.28**	**5.60**	**0.82**	**3.59**
Volatile organic compounds (as VOC)		Criteria	1.7E-01	#/T CaO	F	1		**3.29**	**14.43**	**3.29**	**14.43**	**2.11**	**9.26**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	7.4E-04	#/T CaO	C	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.04**
Total Reduced Sulfur (as Sulfur)		NSPS	4.8E-04	#/T CaO	B	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.1E-04	#/T CaO	D	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Total 112(b) Hazardous Air Pollutants								**2.54**	**11.13**	**2.54**	**11.13**	**1.63**	**7.14**
1,1,1-Trichloroethane	71556	HAP	1.6E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.6E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	1.6E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	7.2E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	1.0E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	2.8E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	7.3E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	4.4E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	5.6E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.3E-01	#/T CaO	A	1		**2.52**	**11.03**	**2.52**	**11.03**	**1.62**	**7.08**
Methyl ethyl ketone	78933	HAP, TAP	2.0E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	1.1E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	3.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	1.9E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	1.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Green Liquor Clarifier	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	1.9E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	1.1E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Tetrachloroethylene	127184	HAP, TAP	2.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.6E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Green Liquor Surge Tank	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.4E-03	#/T CaO	E	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.08**
Volatile organic compounds (as VOC)		Criteria	2.6E-03	#/T CaO	F	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.03**	**0.14**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	8.1E-05	#/T CaO	C	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS	4.7E-05	#/T CaO	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-05	#/T CaO	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**0.02**	**0.11**	**0.02**	**0.11**	**0.02**	**0.07**
1,1,1-Trichloroethane	71556	HAP	8.9E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.5E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP	1.2E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	1.6E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	5.8E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	1.5E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	4.7E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	1.6E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.9E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	2.0E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	1.5E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.1E-03	#/T CaO	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
Methyl ethyl ketone	78933	HAP, TAP	2.0E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	2.9E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	6.7E-05	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP	9.3E-08	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	1.1E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	3.4E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Green Liquor Surge Tank	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	9.3E-08	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	9.1E-08	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	1.4E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	3.2E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	3.4E-07	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - White Liquor Pressure Filters	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1				**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1				**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1				**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	5.6E-03	#/T CaO	E	1				**0.11**	**0.48**	**0.07**	**0.30**
Volatile organic compounds (as VOC)		Criteria	1.3E-02	#/T CaO	F	1				**0.25**	**1.10**	**0.17**	**0.71**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	4.2E-03	#/T CaO	C	1				**0.08**	**0.35**	**0.05**	**0.23**
Total Reduced Sulfur (as Sulfur)		NSPS	2.6E-03	#/T CaO	B	1				**0.05**	**0.22**	**0.03**	**0.14**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	2.8E-03	#/T CaO	D	1				**0.05**	**0.24**	**0.04**	**0.15**
Total 112(b) Hazardous Air Pollutants										**0.41**	**1.80**	**0.27**	**1.15**
1,1,1-Trichloroethane	71556	HAP	1.6E-04	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.01**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.6E-04	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloroethane	107062	HAP	1.6E-04	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.01**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	7.3E-05	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	7.1E-05	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	6.8E-05	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	2.9E-05	#/T CaO	A	1				**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	7.4E-04	#/T CaO	A	1				**0.01**	**0.06**	**0.01**	**0.04**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	4.5E-05	#/T CaO	A	1				**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	5.8E-04	#/T CaO	A	1				**0.01**	**0.05**	**0.01**	**0.03**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	2.2E-03	#/T CaO	A	1				**0.04**	**0.19**	**0.03**	**0.12**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.5E-02	#/T CaO	A	1				**0.29**	**1.27**	**0.19**	**0.82**
Methyl ethyl ketone	78933	HAP, TAP	1.6E-04	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	3.6E-05	#/T CaO	A	1				**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	3.1E-04	#/T CaO	A	1				**0.01**	**0.03**	**0.00**	**0.02**
m-Xylene	108383	HAP, TAP	4.3E-04	#/T CaO	A	1				**0.01**	**0.04**	**0.01**	**0.02**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	6.2E-05	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - White Liquor Pressure Filters	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	4.3E-04	#/T CaO	A	1				**0.01**	**0.04**	**0.01**	**0.02**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	4.9E-05	#/T CaO	A	1				**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	2.0E-04	#/T CaO	A	1				**0.00**	**0.02**	**0.00**	**0.01**
Toluene	108883	HAP, TAP	3.7E-05	#/T CaO	A	1				**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.6E-04	#/T CaO	A	1				**0.00**	**0.01**	**0.00**	**0.01**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Reburn Lime Silo	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2703

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter					A	1	99%	**66.00**	**289.08**	**0.66**	**2.89**	**0.33**	**1.39**
Filterable particulate matter < 10 microns		Criteria			B	0.696	99%	**45.94**	**201.20**	**0.46**	**2.01**	**0.23**	**0.97**
Filterable particulate matter < 2.5 microns		Criteria			B	0.186	99%	**12.28**	**53.77**	**0.12**	**0.54**	**0.06**	**0.26**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**66.00**	**289.08**	**0.66**	**2.89**	**0.33**	**1.39**
Total particulate matter < 10 microns		Criteria				1		**45.94**	**201.20**	**0.46**	**2.01**	**0.23**	**0.97**
Total particulate matter < 2.5 microns		Criteria				1		**12.28**	**53.77**	**0.12**	**0.54**	**0.06**	**0.26**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria				1							
Volatile organic compounds (as VOC)		Criteria				1							
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants										**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Reburn Lime Silo	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary
Title V Unit ID = 07. Equipment ID = 2703

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Engineering estimate from lime silos.
B) PM-10 and PM-2.5 ratio based on NCASI Technical Bulletin 884, Table 4.13 (lime kiln w/ESP).

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Fresh Lime Silo	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary

Title V Unit ID = 07. Equipment ID = 2702

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter					A	1	99%	**66.00**	**289.08**	**0.66**	**2.89**	**0.33**	**1.39**
Filterable particulate matter < 10 microns		Criteria			B	0.696	99%	**45.94**	**201.20**	**0.46**	**2.01**	**0.23**	**0.97**
Filterable particulate matter < 2.5 microns		Criteria			B	0.186	99%	**12.28**	**53.77**	**0.12**	**0.54**	**0.06**	**0.26**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**66.00**	**289.08**	**0.66**	**2.89**	**0.33**	**1.39**
Total particulate matter < 10 microns		Criteria				1		**45.94**	**201.20**	**0.46**	**2.01**	**0.23**	**0.97**
Total particulate matter < 2.5 microns		Criteria				1		**12.28**	**53.77**	**0.12**	**0.54**	**0.06**	**0.26**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria				1							
Volatile organic compounds (as VOC)		Criteria				1							
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants										**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Fresh Lime Silo	465	Ton CaO/Day	310	Ton CaO/Day	24	7	365	351

AEI emissions reported under Causticizing Summary
Title V Unit ID = 07. Equipment ID = 2702

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Engineering estimate from lime silos.
B) PM-10 and PM-2.5 ratio based on NCASI Technical Bulletin 884, Table 4.13 (lime kiln w/ESP).

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Power Boiler - Worst-case Fuel								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 08. Equipment ID = 2550								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								51.51	225.62	51.51	225.62	2.55	11.17
Filterable particulate matter < 10 microns		Criteria						36.62	160.38	36.62	160.38	1.81	7.95
Filterable particulate matter < 2.5 microns		Criteria						26.69	116.89	26.69	116.89	1.32	5.79
Condensible particulate matter < 2.5 microns		Criteria						3.42	14.98	3.42	14.98	0.18	0.77
Total paticulate matter								54.93	240.60	54.93	240.60	2.73	11.94
Total particulate matter < 10 microns		Criteria						40.04	175.36	40.04	175.36	1.99	8.72
Total particulate matter < 2.5 microns		Criteria						30.11	131.87	30.11	131.87	1.50	6.57
Sulfur dioxide	7446095	Criteria						751.72	3,292.52	751.72	3,292.52	37.19	162.91
Volatile organic compounds (as carbon)		Criteria						2.06	9.03	2.06	9.03	0.09	0.41
Volatile organic compounds (as VOC)		Criteria						5.16	22.58	5.16	22.58	0.23	1.01
Carbon monoxide		Criteria						31.50	137.97	31.50	137.97	0.67	2.92
Lead		Criteria						0.01	0.04	0.01	0.04	0.00	0.00
Nitrogen oxides		Criteria						107.16	469.36	107.16	469.36	5.65	24.73
Carbon dioxide	124389	GHG						56,623.02	248,008.81	56,623.02	248,008.81	2,945.21	12,900.04
Biogenic carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Methane	74828	GHG, (112r)						2.26	9.91	2.26	9.91	0.11	0.50
Nitrous oxide	10024972	GHG						0.45	1.98	0.45	1.98	0.02	0.10
Carbon dioxide equivalent		GHG						56,810.75	248,831.10	56,810.75	248,831.10	2,954.64	12,941.34
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						33.43	146.43	33.43	146.43	1.65	7.25
Hydrogen Sulfide	7783064	NSPS, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as TRS)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as Sulfur)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total 112(b) Hazardous Air Pollutants								1.63	7.15	1.63	7.15	0.08	0.37
1,1,1-Trichloroethane	71556	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	107062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Acetophenone	98862	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Acrolein	107028	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.01	0.06	0.01	0.06	0.00	0.00
Arsenic Compounds		HAP, TAP						0.01	0.04	0.01	0.04	0.00	0.00
Benzene	71432	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Carbon tetrachloride	56235	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.79	3.47	0.79	3.47	0.04	0.17
Chlorobenzene	108907	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.01	0.00	0.01	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Cobalt Compounds		HAP, TAP						0.02	0.08	0.02	0.08	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.14	0.61	0.14	0.61	0.01	0.03
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen fluoride	7664393	HAP, (112r)						0.09	0.39	0.09	0.39	0.00	0.02
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
Manganese Compounds		HAP, TAP						0.01	0.05	0.01	0.05	0.00	0.00
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.02	0.10	0.02	0.10	0.00	0.00
Methanol	67561	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl ethyl ketone	78933	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl isobutyl ketone	108101	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
m-Xylene	108383	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Naphthalene	91203	HAP, TAP						0.00	0.02	0.00	0.02	0.00	0.00
n-Hexane	110543	HAP, TAP						0.68	2.96	0.68	2.96	0.00	0.01
Nickel Compounds		HAP, TAP						0.46	2.02	0.46	2.02	0.02	0.10
o-Cresol	95487	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Xylene	95476	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Power Boiler - Worst-case Fuel								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 08. Equipment ID = 2550								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.02**	**0.09**	**0.02**	**0.09**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Power Boiler - Natural Gas	375	MM Btu/hr	14	MM Btu/hr	24	7	365	32
AEI Group ID = 008, Process Unit ID = 2								
Title V Unit ID = 08. Equipment ID = 2550								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.71**	**3.12**	**0.71**	**3.12**	**0.00**	**0.01**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.71**	**3.12**	**0.71**	**3.12**	**0.00**	**0.01**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.71**	**3.12**	**0.71**	**3.12**	**0.00**	**0.01**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**2.14**	**9.36**	**2.14**	**9.36**	**0.01**	**0.03**
Total paticulate matter						1		**2.85**	**12.48**	**2.85**	**12.48**	**0.01**	**0.04**
Total particulate matter < 10 microns		Criteria				1		**2.85**	**12.48**	**2.85**	**12.48**	**0.01**	**0.04**
Total particulate matter < 2.5 microns		Criteria				1		**2.85**	**12.48**	**2.85**	**12.48**	**0.01**	**0.04**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.23**	**0.99**	**0.23**	**0.99**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**2.06**	**9.03**	**2.06**	**9.03**	**0.01**	**0.03**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**5.16**	**22.58**	**5.16**	**22.58**	**0.02**	**0.07**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**31.50**	**137.97**	**31.50**	**137.97**	**0.10**	**0.45**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.80E-01	#/MM Btu	A	1		**105.00**	**459.90**	**105.00**	**459.90**	**0.34**	**1.51**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**43,832.67**	**191,987.10**	**43,832.67**	**191,987.10**	**143.68**	**629.31**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.83**	**3.62**	**0.83**	**3.62**	**0.00**	**0.01**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.08**	**0.36**	**0.08**	**0.36**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**43,875.66**	**192,175.40**	**43,875.66**	**192,175.40**	**143.82**	**629.93**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.81**	**3.53**	**0.81**	**3.53**	**0.00**	**0.01**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.12**	**0.55**	**0.12**	**0.55**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.68**	**2.96**	**0.68**	**2.96**	**0.00**	**0.01**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Power Boiler - Natural Gas	375	MM Btu/hr	14	MM Btu/hr	24	7	365	32
AEI Group ID = 008, Process Unit ID = 2								
Title V Unit ID = 08. Equipment ID = 2550								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Utility Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Power Boiler - No. 6 Fuel Oil	342	MM Btu/hr	190	MM Btu/hr	24	7	365	32
AEI Group ID = 008, Process Unit ID = 1								
Title V Unit ID = 08. Equipment ID = 2550								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.51E-01	#/MM Btu	K	1		**51.51**	**225.62**	**51.51**	**225.62**	**2.55**	**11.16**
Filterable particulate matter < 10 microns		Criteria	1.07E-01	#/MM Btu	K	1		**36.62**	**160.38**	**36.62**	**160.38**	**1.81**	**7.94**
Filterable particulate matter < 2.5 microns		Criteria	7.80E-02	#/MM Btu	K	1		**26.69**	**116.89**	**26.69**	**116.89**	**1.32**	**5.78**
Condensible particulate matter < 2.5 microns		Criteria	1.00E-02	#/MM Btu	C	1		**3.42**	**14.98**	**3.42**	**14.98**	**0.17**	**0.74**
Total paticulate matter								**54.93**	**240.60**	**54.93**	**240.60**	**2.72**	**11.90**
Total particulate matter < 10 microns		Criteria						**40.04**	**175.36**	**40.04**	**175.36**	**1.98**	**8.68**
Total particulate matter < 2.5 microns		Criteria						**30.11**	**131.87**	**30.11**	**131.87**	**1.49**	**6.52**
Sulfur dioxide	7446095	Criteria	2.20E+00	#/MM Btu	A	1		**751.72**	**3,292.52**	**751.72**	**3,292.52**	**37.19**	**162.90**
Volatile organic compounds (as carbon)		Criteria	5.07E-03	#/MM Btu	B	1		**1.73**	**7.59**	**1.73**	**7.59**	**0.09**	**0.38**
Volatile organic compounds (as VOC)		Criteria	5.07E-03	#/MM Btu	M	2.5		**4.33**	**18.97**	**4.33**	**18.97**	**0.21**	**0.94**
Carbon monoxide		Criteria	3.33E-02	#/MM Btu	A	1		**11.40**	**49.93**	**11.40**	**49.93**	**0.56**	**2.47**
Lead		Criteria	2.80E-05	#/MM Btu	G	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Nitrogen oxides		Criteria	3.13E-01	#/MM Btu	A	1		**107.16**	**469.36**	**107.16**	**469.36**	**5.30**	**23.22**
Carbon dioxide	124389	GHG	7.51E+01	kg/MM Btu	I	1		**56,623.02**	**248,008.81**	**56,623.02**	**248,008.81**	**2,801.54**	**12,270.73**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**2.26**	**9.91**	**2.26**	**9.91**	**0.11**	**0.49**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.45**	**1.98**	**0.45**	**1.98**	**0.02**	**0.10**
Carbon dioxide equivalent		GHG			J			**56,810.75**	**248,831.10**	**56,810.75**	**248,831.10**	**2,810.82**	**12,311.41**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	7.98E-02	#/MM Btu	L	1.23		**33.43**	**146.43**	**33.43**	**146.43**	**1.65**	**7.25**
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.63**	**7.15**	**1.63**	**7.15**	**0.08**	**0.35**
1,1,1-Trichloroethane	71556	HAP	1.57E-06	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	3.50E-05	#/MM Btu	F	1.20		**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	2.00E-05	#/MM Btu	H	1.32		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	3.00E-06	#/MM Btu	H	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.10E-07	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.04E-05	#/MM Btu	H	1.14		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	2.31E-03	#/MM Btu	F	1		**0.79**	**3.47**	**0.79**	**3.47**	**0.04**	**0.17**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	5.63E-06	#/MM Btu	F	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	4.04E-06	#/MM Btu	H	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	4.01E-05	#/MM Btu	F	1.27		**0.02**	**0.08**	**0.02**	**0.08**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.24E-07	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.07E-04	#/MM Btu	D	1		**0.14**	**0.61**	**0.14**	**0.61**	**0.01**	**0.03**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)	2.49E-04	#/MM Btu	F	1.05		**0.09**	**0.39**	**0.09**	**0.39**	**0.00**	**0.02**
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	2.80E-05	#/MM Btu	G	1.08		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	2.60E-05	#/MM Btu	H	1.29		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.15E-05	#/MM Btu	H	1.08		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	1.21E-05	#/MM Btu	H	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	1.06E-03	#/MM Btu	H	1.27		**0.46**	**2.02**	**0.46**	**2.02**	**0.02**	**0.10**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	7.27E-07	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Power Boiler - No. 6 Fuel Oil	342	MM Btu/hr	190	MM Btu/hr	24	7	365	32
AEI Group ID = 008, Process Unit ID = 1								
Title V Unit ID = 08. Equipment ID = 2550								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP	6.31E-05	#/MM Btu	F	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP	8.67E-06	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.14E-05	#/MM Btu	H	1.41		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.13E-05	#/MM Btu	E	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S.
B) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-3.
C) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-2.
D) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-8.
E) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-9 (PCDD is OCDD).
F) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-11.
G) Emission factor from U.S. EPA document "Estimating Air Toxic Emissions from Coal and Oil Combustion Sources" [EPA-450/2-89-001] for Uncontrolled Residual Oil-fired Utility Boilers (Table 4-1).
H) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4b), Residual Oil-fired Utility Boilers.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.
K) PM-10 and PM-2.5 ratio based on AP-42, Table 1.3-4.
L) Maximum SO3 emission factor from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S. Process variablilty factor adjusts SO3 to H2SO4.
M) Primary VOC assumed to be formaldehyde.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B, D converted from #/10^3 gal oil to #/MM Btu assuming 150,000 Btu/gal oil.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Worst-Case Fuel + TDF								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								2,116.81	9,271.63	59.04	258.60	14.54	63.69
Filterable particulate matter < 10 microns		Criteria						1,568.01	6,867.88	41.97	183.83	10.75	47.07
Filterable particulate matter < 2.5 microns		Criteria						1,372.01	6,009.40	30.59	133.98	9.31	40.78
Condensible particulate matter < 2.5 microns		Criteria						6.66	29.19	6.66	29.19	4.38	19.20
Total paticulate matter								2,123.47	9,300.82	62.96	275.77	18.92	82.89
Total particulate matter < 10 microns		Criteria						1,574.67	6,897.07	45.89	201.00	15.13	66.27
Total particulate matter < 2.5 microns		Criteria						1,378.67	6,038.59	34.51	151.15	13.69	59.98
Sulfur dioxide	7446095	Criteria						861.62	3,773.88	861.62	3,773.88	19.60	85.86
Volatile organic compounds (as carbon)		Criteria						5.10	22.32	5.10	22.32	3.34	14.64
Volatile organic compounds (as VOC)		Criteria						12.74	55.80	12.74	55.80	8.36	36.61
Carbon monoxide		Criteria						235.20	1,030.19	235.20	1,030.19	152.05	665.96
Lead		Criteria						0.06	0.27	0.06	0.27	0.02	0.08
Nitrogen oxides		Criteria						122.83	538.00	122.83	538.00	59.12	258.96
Carbon dioxide	124389	GHG						65,185.53	285,512.61	65,185.53	285,512.61	1,813.51	7,943.17
Biogenic carbon dioxide	124389	GHG						81,061.73	355,050.37	81,061.73	355,050.37	52,152.21	228,426.67
Methane	74828	GHG, (112r)						27.76	121.59	27.76	121.59	17.88	78.30
Nitrous oxide	10024972	GHG						3.64	15.96	3.64	15.96	2.35	10.29
Carbon dioxide equivalent		GHG						83,058.47	363,796.12	83,058.47	363,796.12	55,069.21	241,203.16
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						38.32	167.84	38.32	167.84	0.59	2.59
Hydrogen Sulfide	7783064	NSPS, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as TRS)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as Sulfur)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total 112(b) Hazardous Air Pollutants								9.49	41.59	9.49	41.59	3.33	14.59
1,1,1-Trichloroethane	71556	HAP						0.02	0.07	0.02	0.07	0.01	0.05
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.05	0.21	0.05	0.21	0.03	0.13
1,2-Dichloroethane	107062	HAP						0.01	0.05	0.01	0.05	0.01	0.03
1,2-Dichloropropane	78875	HAP						0.01	0.06	0.01	0.06	0.01	0.04
1,2,4-Trichlorobenzene	120821	HAP						0.02	0.09	0.02	0.09	0.01	0.06
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						0.04	0.16	0.04	0.16	0.02	0.10
Acetophenone	98862	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Acrolein	107028	HAP, TAP, (112r)						0.03	0.13	0.03	0.13	0.02	0.09
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.02	0.07	0.02	0.07	0.00	0.00
Arsenic Compounds		HAP, TAP						0.02	0.10	0.02	0.10	0.00	0.02
Benzene	71432	HAP, TAP						0.10	0.44	0.10	0.44	0.06	0.28
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.01	0.03	0.01	0.03	0.00	0.02
Cadmium Compounds		HAP, TAP						0.02	0.07	0.02	0.07	0.00	0.01
Carbon disulfide	75150	HAP, TAP, (112r)						0.05	0.22	0.05	0.22	0.03	0.14
Carbon tetrachloride	56235	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.91	3.97	0.91	3.97	0.01	0.06
Chlorobenzene	108907	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.01	0.03	0.01	0.03	0.00	0.02
Chloromethane	74873	HAP, TAP, (112r)						0.01	0.06	0.01	0.06	0.01	0.03
Chromium Compounds		HAP						0.00	0.02	0.00	0.02	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.01
Cobalt Compounds		HAP, TAP						0.02	0.09	0.02	0.09	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						0.00	0.02	0.00	0.02	0.00	0.01
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.01
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.33	1.44	0.33	1.44	0.22	0.95
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						7.67	33.61	7.67	33.61	2.32	10.15
Hydrogen fluoride	7664393	HAP, (112r)						0.10	0.45	0.10	0.45	0.00	0.01
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.07	0.30	0.07	0.30	0.02	0.08
Manganese Compounds		HAP, TAP						0.04	0.18	0.04	0.18	0.03	0.12
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.03	0.11	0.03	0.11	0.00	0.00
Methanol	67561	HAP, TAP						0.34	1.48	0.34	1.48	0.22	0.95
Methyl ethyl ketone	78933	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl isobutyl ketone	108101	HAP, TAP						0.01	0.04	0.01	0.04	0.01	0.03
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.14	0.60	0.14	0.60	0.09	0.39
m-Xylene	108383	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Naphthalene	91203	HAP, TAP						0.03	0.13	0.03	0.13	0.02	0.08
n-Hexane	110543	HAP, TAP						0.73	3.19	0.73	3.19	0.08	0.36
Nickel Compounds		HAP, TAP						0.53	2.32	0.53	2.32	0.01	0.04
o-Cresol	95487	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Xylene	95476	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Worst-Case Fuel + TDF								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Phosphorus	7723140	HAP, TAP						**0.04**	**0.17**	**0.04**	**0.17**	**0.03**	**0.11**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.07**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.01**
Styrene	100425	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Tetrachloroethylene	127184	HAP, TAP						**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
Toluene	108883	HAP, TAP						**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Wood Waste	392	MM Btu/hr	254	MM Btu/hr	24	7	365	362
AEI Group ID = 008, Process Unit ID = 5								
Title V Unit ID = 08. Equipment ID = 2605								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			5.40E-02	#/MM Btu	A	1	99%	**2,116.80**	**9,271.58**	**21.17**	**92.72**	**13.62**	**59.65**
Filterable particulate matter < 10 microns		Criteria	4.00E-02	#/MM Btu	A	1	99%	**1,568.00**	**6,867.84**	**15.68**	**68.68**	**10.09**	**44.19**
Filterable particulate matter < 2.5 microns		Criteria	3.50E-02	#/MM Btu	A	1	99%	**1,372.00**	**6,009.36**	**13.72**	**60.09**	**8.83**	**38.66**
Condensible particulate matter < 2.5 microns		Criteria	1.70E-02	#/MM Btu	A	1		**6.66**	**29.19**	**6.66**	**29.19**	**4.29**	**18.78**
Total paticulate matter						1		**2,123.46**	**9,300.77**	**27.83**	**121.90**	**17.91**	**78.43**
Total particulate matter < 10 microns		Criteria				1		**1,574.66**	**6,897.03**	**22.34**	**97.87**	**14.38**	**62.96**
Total particulate matter < 2.5 microns		Criteria				1		**1,378.66**	**6,038.55**	**20.38**	**89.28**	**13.11**	**57.44**
Sulfur dioxide	7446095	Criteria	2.50E-02	#/MM Btu	B	1		**9.80**	**42.92**	**9.80**	**42.92**	**6.30**	**27.62**
Volatile organic compounds (as carbon)		Criteria	1.30E-02	#/MM Btu	F	1		**5.10**	**22.32**	**5.10**	**22.32**	**3.28**	**14.36**
Volatile organic compounds (as VOC)		Criteria	1.30E-02	#/MM Btu	N	2.5		**12.74**	**55.80**	**12.74**	**55.80**	**8.20**	**35.90**
Carbon monoxide		Criteria	6.00E-01	#/MM Btu	B	1		**235.20**	**1,030.18**	**235.20**	**1,030.18**	**151.32**	**662.78**
Lead		Criteria	7.40E-06	#/MM Btu	G	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Nitrogen oxides		Criteria	2.20E-01	#/MM Btu	B	1		**86.24**	**377.73**	**86.24**	**377.73**	**55.48**	**243.02**
Carbon dioxide	124389	GHG				1		**0.00**					
Biogenic carbon dioxide	124389	GHG	9.38E+01	kg/MM Btu	L	1		**81,061.73**	**355,050.37**	**81,061.73**	**355,050.37**	**52,152.21**	**228,426.67**
Methane	74828	GHG, (112r)	3.20E-02	kg/MM Btu	L	1		**27.65**	**121.13**	**27.65**	**121.13**	**17.79**	**77.93**
Nitrous oxide	10024972	GHG	4.20E-03	kg/MM Btu	L	1		**3.63**	**15.90**	**3.63**	**15.90**	**2.34**	**10.23**
Carbon dioxide equivalent		GHG			M	1		**82,767.65**	**362,522.33**	**82,767.65**	**362,522.33**	**53,249.74**	**233,233.86**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	0.0E+00	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS	0.0E+00	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	0.0E+00	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**1.61**	**7.05**	**1.61**	**7.05**	**1.04**	**4.53**
1,1,1-Trichloroethane	71556	HAP	4.20E-05	#/MM Btu	F	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.05**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.20E-04	#/MM Btu	F	1		**0.05**	**0.21**	**0.05**	**0.21**	**0.03**	**0.13**
1,2-Dichloroethane	107062	HAP	2.90E-05	#/MM Btu	F	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.03**
1,2-Dichloropropane	78875	HAP	3.30E-05	#/MM Btu	F	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.04**
1,2,4-Trichlorobenzene	120821	HAP	5.50E-05	#/MM Btu	F	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP	2.60E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP	9.40E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP	2.40E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP	1.20E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r	9.50E-05	#/MM Btu	F	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.02**	**0.10**
Acetophenone	98862	HAP, TAP	2.60E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r	7.80E-05	#/MM Btu	F	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.09**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	4.20E-07	#/MM Btu	G	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	4.00E-07	#/MM Btu	G	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	2.50E-04	#/MM Btu	F	1		**0.10**	**0.43**	**0.10**	**0.43**	**0.06**	**0.28**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	4.00E-07	#/MM Btu	G	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	4.70E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	1.50E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Cadmium Compounds		HAP, TAP	5.90E-07	#/MM Btu	G	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	1.30E-04	#/MM Btu	F	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.03**	**0.14**
Carbon tetrachloride	56235	HAP, TAP	8.90E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	5.50E-10	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	1.90E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Chloromethane	74873	HAP, TAP, (112r	2.30E-05	#/MM Btu	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Chromium Compounds		HAP	6.60E-07	#/MM Btu	G	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	5.00E-06	#/MM Btu	G	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Cobalt Compounds		HAP, TAP	1.90E-07	#/MM Btu	G	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	8.90E-06	#/MM Btu	F	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	6.80E-06	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	8.40E-04	#/MM Btu	F	1		**0.33**	**1.44**	**0.33**	**1.44**	**0.21**	**0.93**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP	1.00E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r	3.50E-04	#/MM Btu	F	1		**0.14**	**0.60**	**0.14**	**0.60**	**0.09**	**0.39**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	7.40E-06	#/MM Btu	G	1.08		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Manganese Compounds		HAP, TAP	7.90E-05	#/MM Btu	G	1.29		**0.04**	**0.18**	**0.04**	**0.18**	**0.03**	**0.11**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.20E-07	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	8.60E-04	#/MM Btu	F	1		**0.34**	**1.48**	**0.34**	**1.48**	**0.22**	**0.95**
Methyl ethyl ketone	78933	HAP, TAP	2.40E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	2.30E-05	#/MM Btu	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	3.50E-04	#/MM Btu	F	1		**0.14**	**0.60**	**0.14**	**0.60**	**0.09**	**0.39**
m-Xylene	108383	HAP, TAP	6.90E-10	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP	7.40E-05	#/MM Btu	F	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.08**
n-Hexane	110543	HAP, TAP	2.80E-04	#/MM Btu	F	1		**0.11**	**0.48**	**0.11**	**0.48**	**0.07**	**0.31**
Nickel Compounds		HAP, TAP	3.50E-06	#/MM Btu	G	1.27		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	2.60E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Wood Waste	392	MM Btu/hr	254	MM Btu/hr	24	7	365	362
AEI Group ID = 008, Process Unit ID = 5								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP	4.80E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP	2.00E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Phosphorus	7723140	HAP, TAP	9.90E-05	#/MM Btu	G	1		**0.04**	**0.17**	**0.04**	**0.17**	**0.02**	**0.11**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	6.10E-05	#/MM Btu	F	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.07**
p-Xylene	106423	HAP, TAP	6.90E-10	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	3.30E-06	#/MM Btu	G	1.41		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Styrene	100425	HAP, TAP	1.50E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Tetrachloroethylene	127184	HAP, TAP	5.20E-05	#/MM Btu	F	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
Toluene	108883	HAP, TAP	2.50E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.90E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP	1.80E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.02**
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 - Table 1.6-1, Bark/Wood-fired Boiler with ESP.
B) Emission factors from AP-42 Table 1.6-2.
C) Emission factors from AP-42 Table 1.6-3.
D) Emission factors from AP-42 Table 1.6-4.
E) Median emission factors from NCASI Technical Bulletin No. 701 - Table 19A, Wood-fired Boilers.
F) Emission factors from NCASI Technical Bulletin 858, Table 20A.
G) Emission factors from NCASI Technical Bulletin 858, Table 20B - Fabric Filter/ESP (except Ag, P, and Th wet scrubber - no ESP factor).
H) Average emission factors from NCASI Technical Bulletin No. 646 - Table 1, Bark/Wood Residue Boilers. Emission factor converted from #/TWWF to #/MM Btu assuming 9 MM Btu/TWWF.
I) Average emission factors from NCASI Technical Bulletin No. 646 - Table 2, Bark/Wood Residue Boilers. Emission factor converted from #/TDF to #/MM Btu assuming 18 MM Btu/TDF.
J) Average emission factors from NCASI Technical Bulletin No. 646 - Table 3, Bark/Wood Residue Boilers.
K) Primary VOC assumed to be formaldehyde.
L) Emission factor for wood and wood residuals combustion in EPA MRR, Table C-1 and C-2.
M) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B, C, D, E, F, G, H and I converted from #/TWWF to #/MM Btu assuming 4500 Btu/# WWF.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Natural Gas	405	MM Btu/hr	6	MM Btu/hr	24	7	365	364
AEI Group ID = 008, Process Unit ID = 4								
Title V Unit ID = 08. Equipment ID = 2605								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.77**	**3.37**	**0.77**	**3.37**	**0.01**	**0.05**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.77**	**3.37**	**0.77**	**3.37**	**0.01**	**0.05**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.77**	**3.37**	**0.77**	**3.37**	**0.01**	**0.05**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**2.31**	**10.11**	**2.31**	**10.11**	**0.04**	**0.16**
Total paticulate matter						1		**3.08**	**13.48**	**3.08**	**13.48**	**0.05**	**0.21**
Total particulate matter < 10 microns		Criteria				1		**3.08**	**13.48**	**3.08**	**13.48**	**0.05**	**0.21**
Total particulate matter < 2.5 microns		Criteria				1		**3.08**	**13.48**	**3.08**	**13.48**	**0.05**	**0.21**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.24**	**1.06**	**0.24**	**1.06**	**0.00**	**0.02**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**2.23**	**9.76**	**2.23**	**9.76**	**0.03**	**0.15**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**5.57**	**24.39**	**5.57**	**24.39**	**0.09**	**0.38**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**34.02**	**149.01**	**34.02**	**149.01**	**0.52**	**2.29**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.80E-01	#/MM Btu	A	1		**113.40**	**496.69**	**113.40**	**496.69**	**1.74**	**7.64**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**47,339.29**	**207,346.07**	**47,339.29**	**207,346.07**	**728.08**	**3,188.98**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.89**	**3.91**	**0.89**	**3.91**	**0.01**	**0.06**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.09**	**0.39**	**0.09**	**0.39**	**0.00**	**0.01**
Carbon dioxide equivalent		GHG			J	1		**47,385.71**	**207,549.43**	**47,385.71**	**207,549.43**	**728.79**	**3,192.11**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.87**	**3.81**	**0.87**	**3.81**	**0.01**	**0.06**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.13**	**0.59**	**0.13**	**0.59**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.73**	**3.19**	**0.73**	**3.19**	**0.01**	**0.05**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Natural Gas	405	MM Btu/hr	6	MM Btu/hr	24	7	365	364
AEI Group ID = 008, Process Unit ID = 4								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Utility Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - No. 6 Fuel Oil	392	MM Btu/hr	6	MM Btu/hr	24	7	365	364
AEI Group ID = 008, Process Unit ID = 3								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.51E-01	#/MM Btu	K	1		**59.04**	**258.60**	**59.04**	**258.60**	**0.91**	**3.99**
Filterable particulate matter < 10 microns		Criteria	1.07E-01	#/MM Btu	K	1		**41.97**	**183.83**	**41.97**	**183.83**	**0.65**	**2.84**
Filterable particulate matter < 2.5 microns		Criteria	7.80E-02	#/MM Btu	K	1		**30.59**	**133.98**	**30.59**	**133.98**	**0.47**	**2.07**
Condensible particulate matter < 2.5 microns		Criteria	1.00E-02	#/MM Btu	C	1		**3.92**	**17.17**	**3.92**	**17.17**	**0.06**	**0.26**
Total paticulate matter								**62.96**	**275.77**	**62.96**	**275.77**	**0.97**	**4.25**
Total particulate matter < 10 microns		Criteria						**45.89**	**201.00**	**45.89**	**201.00**	**0.71**	**3.10**
Total particulate matter < 2.5 microns		Criteria						**34.51**	**151.15**	**34.51**	**151.15**	**0.53**	**2.33**
Sulfur dioxide	7446095	Criteria	2.20E+00	#/MM Btu	A	1		**861.62**	**3,773.88**	**861.62**	**3,773.88**	**13.29**	**58.23**
Volatile organic compounds (as carbon)		Criteria	5.07E-03	#/MM Btu	B	1		**1.99**	**8.70**	**1.99**	**8.70**	**0.03**	**0.13**
Volatile organic compounds (as VOC)		Criteria	5.07E-03	#/MM Btu	M	2.5		**4.97**	**21.75**	**4.97**	**21.75**	**0.08**	**0.34**
Carbon monoxide		Criteria	3.33E-02	#/MM Btu	A	1		**13.07**	**57.23**	**13.07**	**57.23**	**0.20**	**0.88**
Lead		Criteria	2.80E-05	#/MM Btu	G	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Nitrogen oxides		Criteria	3.13E-01	#/MM Btu	A	1		**122.83**	**537.98**	**122.83**	**537.98**	**1.90**	**8.30**
Carbon dioxide	124389	GHG	7.51E+01	kg/MM Btu	I	1		**64,901.23**	**284,267.41**	**64,901.23**	**284,267.41**	**1,001.36**	**4,385.94**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**2.59**	**11.36**	**2.59**	**11.36**	**0.04**	**0.18**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.52**	**2.27**	**0.52**	**2.27**	**0.01**	**0.04**
Carbon dioxide equivalent		GHG			J			**65,116.42**	**285,209.92**	**65,116.42**	**285,209.92**	**1,004.68**	**4,400.48**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	7.98E-02	#/MM Btu	L	1.23		**38.32**	**167.84**	**38.32**	**167.84**	**0.59**	**2.59**
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.87**	**8.20**	**1.87**	**8.20**	**0.03**	**0.13**
1,1,1-Trichloroethane	71556	HAP	1.57E-06	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	3.50E-05	#/MM Btu	F	1.20		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	2.00E-05	#/MM Btu	H	1.32		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	3.00E-06	#/MM Btu	H	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.10E-07	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.04E-05	#/MM Btu	H	1.14		**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	2.31E-03	#/MM Btu	F	1		**0.91**	**3.97**	**0.91**	**3.97**	**0.01**	**0.06**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	5.63E-06	#/MM Btu	F	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	4.04E-06	#/MM Btu	H	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	4.01E-05	#/MM Btu	F	1.27		**0.02**	**0.09**	**0.02**	**0.09**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.24E-07	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.07E-04	#/MM Btu	D	1		**0.16**	**0.70**	**0.16**	**0.70**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)	2.49E-04	#/MM Btu	F	1.05		**0.10**	**0.45**	**0.10**	**0.45**	**0.00**	**0.01**
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	2.80E-05	#/MM Btu	G	1.08		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	2.60E-05	#/MM Btu	H	1.29		**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.15E-05	#/MM Btu	H	1.08		**0.03**	**0.11**	**0.03**	**0.11**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	1.21E-05	#/MM Btu	H	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	1.06E-03	#/MM Btu	H	1.27		**0.53**	**2.32**	**0.53**	**2.32**	**0.01**	**0.04**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	7.27E-07	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - No. 6 Fuel Oil	392	MM Btu/hr	6	MM Btu/hr	24	7	365	364
AEI Group ID = 008, Process Unit ID = 3								
Title V Unit ID = 08. Equipment ID = 2605								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP	6.31E-05	#/MM Btu	F	1		**0.02**	**0.11**	**0.02**	**0.11**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP	8.67E-06	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.14E-05	#/MM Btu	H	1.41		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.13E-05	#/MM Btu	E	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S.
B) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-3.
C) Maximum emission factors from AP-42 for Residual Oil-fired Utility Boilers with ESPs Table 1.3-4: assumes 2.1% Sulfur.
D) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-8.
E) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-9 (PCDD is OCDD).
F) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-11.
G) Emission factor from U.S. EPA document "Estimating Air Toxic Emissions from Coal and Oil Combustion Sources" [EPA-450/2-89-001] for Uncontrolled Residual Oil-fired Utility Boilers (Table 4-1).
H) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4b), Residual Oil-fired Utility Boilers.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.
K) PM-10 and PM-2.5 ratio based on AP-42, Table 1.3-4.
L) Maximum SO3 emission factor from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S. Process variablilty factor adjusts SO3 to H2SO4.
M) Primary VOC assumed to be formaldehyde.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B, C and D converted from #/10^3 gal oil to #/MM Btu assuming 150,000 Btu/gal oil.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Tire Derived Fuel (TDF)	1.50	Ton TDF/hr	0.45	Ton TDF/hr	24	7	365	362
AEI Group ID = 008, Process Unit ID = 6								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			2.20E-06	#/MM Btu	D	1	99%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	2.20E-06	#/MM Btu	G	1	99%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	2.20E-06	#/MM Btu	G	1	99%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter								**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria						**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria						**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	1.40E-05	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria				1							
Volatile organic compounds (as VOC)		Criteria				1							
Carbon monoxide		Criteria	7.20E-05	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Lead		Criteria	3.44E-02	#/Ton TDF	A	1		**0.05**	**0.23**	**0.05**	**0.23**	**0.02**	**0.07**
Nitrogen oxides		Criteria	9.80E-05	#/MM Btu	D	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Carbon dioxide	124389	GHG	8.60E+01	kg/MM Btu	E	1		**284.29**	**1,245.20**	**284.29**	**1,245.20**	**84.08**	**368.25**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.20E-02	kg/MM Btu	E	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.03**	**0.14**
Nitrous oxide	10024972	GHG	4.20E-03	kg/MM Btu	E	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.02**
Carbon dioxide equivalent		GHG			F			**290.82**	**1,273.79**	**290.82**	**1,273.79**	**86.01**	**376.71**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**7.62**	**33.39**	**7.62**	**33.39**	**2.25**	**9.87**
1,1,1-Trichloroethane	71556	HAP	1.30E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	1.24E-05	#/MM Btu	C	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	5.77E-03	#/Ton TDF	A	1.32		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.01**
Benzene	71432	HAP, TAP	5.09E-05	#/MM Btu	B	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.93E-07	#/MM Btu	C	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	2.84E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP	1.58E-03	#/Ton TDF	A	1.14		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	2.19E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	5.35E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r	1.20E-04	#/MM Btu	B	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.01**
Chromium Compounds		HAP	2.27E-05	#/MM Btu	C	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.15E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r	5.02E+00	#/Ton TDF	A	1		**7.54**	**33.01**	**7.54**	**33.01**	**2.23**	**9.76**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP	5.47E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	3.44E-02	#/Ton TDF	A	1.08		**0.06**	**0.24**	**0.06**	**0.24**	**0.02**	**0.07**
Manganese Compounds		HAP, TAP	3.40E-05	#/MM Btu	C	1.29		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP	4.14E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	5.70E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	2.05E-05	#/MM Btu	C	1.27		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	1.22E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 1 - Tire Derived Fuel (TDF)	1.50	Ton TDF/hr	0.45	Ton TDF/hr	24	7	365	362
AEI Group ID = 008, Process Unit ID = 6								
Title V Unit ID = 08. Equipment ID = 2605								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	4.14E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	2.65E-05	#/MM Btu	C	1.41		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	1.83E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.00E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor developed from Bowater stack test (3/1/2001).
B) Emission factor from "Air Emissions from Scrap Tire Combustion" (EPA-600/R-97-115), Table 18 - Greater of 7%, 15%, 17%, or 19% TDF.
C) Emission factor from "Air Emissions from Scrap Tire Combustion" (EPA-600/R-97-115), Table 19 - 100% TDF.
D) Emission factor from "Air Emissions from Scrap Tire Combustion" (EPA-600/R-97-115), Table 21 - 100% TDF.
E) Emission factor for tires combustion in EPA MRR, Table C-1 and C-2.
F) Emission factor based on GWP in EPA MRR, Table A-1.
G) PM-10 and PM-2.5 emissions assumed equivalent to TPM.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is maximum expected production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Worst-Case Fuel + TDF								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								2,689.21	11,778.74	105.43	461.79	20.34	89.11
Filterable particulate matter < 10 microns		Criteria						1,992.01	8,725.00	74.95	328.26	15.03	65.83
Filterable particulate matter < 2.5 microns		Criteria						1,743.01	7,634.38	54.62	239.24	13.00	56.95
Condensible particulate matter < 2.5 microns		Criteria						8.47	37.08	8.47	37.08	6.08	26.63
Total paticulate matter								2,697.68	11,815.82	112.43	492.45	26.43	115.74
Total particulate matter < 10 microns		Criteria						2,000.48	8,762.09	81.95	358.92	21.11	92.47
Total particulate matter < 2.5 microns		Criteria						1,751.48	7,671.47	61.62	269.90	19.08	83.58
Sulfur dioxide	7446095	Criteria						1,538.60	6,739.07	1,538.60	6,739.07	29.96	131.23
Volatile organic compounds (as carbon)		Criteria						6.47	28.36	6.47	28.36	4.63	20.29
Volatile organic compounds (as VOC)		Criteria						16.19	70.89	16.19	70.89	11.58	50.73
Carbon monoxide		Criteria						298.80	1,308.76	298.80	1,308.76	210.68	922.76
Lead		Criteria						0.07	0.31	0.07	0.31	0.02	0.10
Nitrogen oxides		Criteria						219.34	960.70	219.34	960.70	81.96	358.96
Carbon dioxide	124389	GHG						116,179.35	508,865.57	116,179.35	508,865.57	2,557.98	11,203.96
Biogenic carbon dioxide	124389	GHG						102,981.48	451,058.89	102,981.48	451,058.89	72,289.12	316,626.37
Methane	74828	GHG, (112r)						35.24	154.34	35.24	154.34	24.78	108.56
Nitrous oxide	10024972	GHG						4.63	20.26	4.63	20.26	3.26	14.26
Carbon dioxide equivalent		GHG						116,570.14	510,577.22	116,570.14	510,577.22	76,377.20	334,532.15
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						68.43	299.72	68.43	299.72	0.94	4.13
Hydrogen Sulfide	7783064	NSPS, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as TRS)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as Sulfur)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						0.00	0.00	0.00	0.00	0.00	0.00
Total 112(b) Hazardous Air Pollutants								10.97	48.03	10.97	48.03	4.60	20.16
1,1,1-Trichloroethane	71556	HAP						0.02	0.09	0.02	0.09	0.01	0.06
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.06	0.26	0.06	0.26	0.04	0.18
1,2-Dichloroethane	107062	HAP						0.01	0.06	0.01	0.06	0.01	0.04
1,2-Dichloropropane	78875	HAP						0.02	0.07	0.02	0.07	0.01	0.05
1,2,4-Trichlorobenzene	120821	HAP						0.03	0.12	0.03	0.12	0.02	0.08
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						0.05	0.21	0.05	0.21	0.03	0.15
Acetophenone	98862	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Acrolein	107028	HAP, TAP, (112r)						0.04	0.17	0.04	0.17	0.03	0.12
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.03	0.13	0.03	0.13	0.00	0.00
Arsenic Compounds		HAP, TAP						0.03	0.13	0.03	0.13	0.01	0.02
Benzene	71432	HAP, TAP						0.13	0.56	0.13	0.56	0.09	0.39
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.01	0.03	0.01	0.03	0.01	0.02
Cadmium Compounds		HAP, TAP						0.03	0.12	0.03	0.12	0.00	0.01
Carbon disulfide	75150	HAP, TAP, (112r)						0.06	0.28	0.06	0.28	0.05	0.20
Carbon tetrachloride	56235	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						1.62	7.09	1.62	7.09	0.02	0.10
Chlorobenzene	108907	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.01	0.04	0.01	0.04	0.01	0.03
Chloromethane	74873	HAP, TAP, (112r)						0.02	0.07	0.02	0.07	0.01	0.05
Chromium Compounds		HAP						0.01	0.03	0.01	0.03	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.02	0.00	0.02	0.00	0.01
Cobalt Compounds		HAP, TAP						0.04	0.16	0.04	0.16	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						0.00	0.02	0.00	0.02	0.00	0.01
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.00	0.02	0.00	0.02	0.00	0.01
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.42	1.83	0.42	1.83	0.30	1.31
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						7.71	33.78	7.71	33.78	3.19	13.99
Hydrogen fluoride	7664393	HAP, (112r)						0.18	0.80	0.18	0.80	0.00	0.01
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.08	0.34	0.08	0.34	0.03	0.11
Manganese Compounds		HAP, TAP						0.05	0.23	0.05	0.23	0.04	0.16
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.05	0.20	0.05	0.20	0.00	0.00
Methanol	67561	HAP, TAP						0.43	1.88	0.43	1.88	0.30	1.32
Methyl ethyl ketone	78933	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl isobutyl ketone	108101	HAP, TAP						0.01	0.05	0.01	0.05	0.01	0.04
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.17	0.76	0.17	0.76	0.12	0.54
m-Xylene	108383	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Naphthalene	91203	HAP, TAP						0.04	0.16	0.04	0.16	0.03	0.11
n-Hexane	110543	HAP, TAP						1.30	5.68	1.30	5.68	0.11	0.49
Nickel Compounds		HAP, TAP						0.95	4.14	0.95	4.14	0.02	0.07
o-Cresol	95487	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Xylene	95476	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Worst-Case Fuel + TDF								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Phosphorus	7723140	HAP, TAP						**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.15**
Polycyclic organic matter		HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.09**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.01**	**0.06**	**0.01**	**0.06**	**0.00**	**0.01**
Styrene	100425	HAP, TAP						**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Tetrachloroethylene	127184	HAP, TAP						**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.08**
Toluene	108883	HAP, TAP						**0.03**	**0.13**	**0.03**	**0.13**	**0.00**	**0.01**
Trichloroethylene	79016	HAP, TAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Wood Waste	498	MM Btu/hr	359	MM Btu/hr	24	7	365	356
AEI Group ID = 008, Process Unit ID = 10								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			5.40E-02	#/MM Btu	A	1	99%	**2,689.20**	**11,778.70**	**26.89**	**117.79**	**18.88**	**82.68**
Filterable particulate matter < 10 microns		Criteria	4.00E-02	#/MM Btu	A	1	99%	**1,992.00**	**8,724.96**	**19.92**	**87.25**	**13.98**	**61.25**
Filterable particulate matter < 2.5 microns		Criteria	3.50E-02	#/MM Btu	A	1	99%	**1,743.00**	**7,634.34**	**17.43**	**76.34**	**12.24**	**53.59**
Condensible particulate matter < 2.5 microns		Criteria	1.70E-02	#/MM Btu	A	1		**8.47**	**37.08**	**8.47**	**37.08**	**5.94**	**26.03**
Total paticulate matter						1		**2,697.67**	**11,815.78**	**35.36**	**154.87**	**24.82**	**108.71**
Total particulate matter < 10 microns		Criteria				1		**2,000.47**	**8,762.04**	**28.39**	**124.33**	**19.93**	**87.28**
Total particulate matter < 2.5 microns		Criteria				1		**1,751.47**	**7,671.42**	**25.90**	**113.42**	**18.18**	**79.62**
Sulfur dioxide	7446095	Criteria	2.50E-02	#/MM Btu	B	1		**12.45**	**54.53**	**12.45**	**54.53**	**8.74**	**38.28**
Volatile organic compounds (as carbon)		Criteria	1.30E-02	#/MM Btu	F	1		**6.47**	**28.36**	**6.47**	**28.36**	**4.54**	**19.90**
Volatile organic compounds (as VOC)		Criteria	1.30E-02	#/MM Btu	K	2.5		**16.19**	**70.89**	**16.19**	**70.89**	**11.36**	**49.76**
Carbon monoxide		Criteria	6.00E-01	#/MM Btu	B	1		**298.80**	**1,308.74**	**298.80**	**1,308.74**	**209.75**	**918.69**
Lead		Criteria	7.40E-06	#/MM Btu	G	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Nitrogen oxides		Criteria	2.20E-01	#/MM Btu	B	1		**109.56**	**479.87**	**109.56**	**479.87**	**76.91**	**336.85**
Carbon dioxide	124389	GHG				1		**0.00**					
Biogenic carbon dioxide	124389	GHG	9.38E+01	kg/MM Btu	L	1		**102,981.48**	**451,058.89**	**102,981.48**	**451,058.89**	**72,289.12**	**316,626.37**
Methane	74828	GHG, (112r)	3.20E-02	kg/MM Btu	L	1		**35.13**	**153.88**	**35.13**	**153.88**	**24.66**	**108.02**
Nitrous oxide	10024972	GHG	4.20E-03	kg/MM Btu	L	1		**4.61**	**20.20**	**4.61**	**20.20**	**3.24**	**14.18**
Carbon dioxide equivalent		GHG			M	1		**105,148.70**	**460,551.32**	**105,148.70**	**460,551.32**	**73,810.43**	**323,289.70**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00			1							
Total Reduced Sulfur (as TRS)		NSPS	0.0E+00	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS	0.0E+00	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	0.0E+00	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**2.04**	**8.95**	**2.04**	**8.95**	**1.43**	**6.28**
1,1,1-Trichloroethane	71556	HAP	4.20E-05	#/MM Btu	F	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.01**	**0.06**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	1.20E-04	#/MM Btu	F	1		**0.06**	**0.26**	**0.06**	**0.26**	**0.04**	**0.18**
1,2-Dichloroethane	107062	HAP	2.90E-05	#/MM Btu	F	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.04**
1,2-Dichloropropane	78875	HAP	3.30E-05	#/MM Btu	F	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.01**	**0.05**
1,2,4-Trichlorobenzene	120821	HAP	5.50E-05	#/MM Btu	F	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.08**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP	2.60E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP	9.40E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP	2.40E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP	1.20E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r	9.50E-05	#/MM Btu	F	1		**0.05**	**0.21**	**0.05**	**0.21**	**0.03**	**0.15**
Acetophenone	98862	HAP, TAP	2.60E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r	7.80E-05	#/MM Btu	F	1		**0.04**	**0.17**	**0.04**	**0.17**	**0.03**	**0.12**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	4.20E-07	#/MM Btu	G	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	4.00E-07	#/MM Btu	G	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	2.50E-04	#/MM Btu	F	1		**0.12**	**0.55**	**0.12**	**0.55**	**0.09**	**0.38**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	4.00E-07	#/MM Btu	G	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	4.70E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	1.50E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Cadmium Compounds		HAP, TAP	5.90E-07	#/MM Btu	G	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	1.30E-04	#/MM Btu	F	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.05**	**0.20**
Carbon tetrachloride	56235	HAP, TAP	8.90E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	5.50E-10	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	1.90E-05	#/MM Btu	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Chloromethane	74873	HAP, TAP, (112r	2.30E-05	#/MM Btu	F	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Chromium Compounds		HAP	6.60E-07	#/MM Btu	G	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	5.00E-06	#/MM Btu	G	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Cobalt Compounds		HAP, TAP	1.90E-07	#/MM Btu	G	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP	8.90E-06	#/MM Btu	F	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	6.80E-06	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	8.40E-04	#/MM Btu	F	1		**0.42**	**1.83**	**0.42**	**1.83**	**0.29**	**1.29**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP	1.00E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r	3.50E-04	#/MM Btu	F	1		**0.17**	**0.76**	**0.17**	**0.76**	**0.12**	**0.54**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	7.40E-06	#/MM Btu	G	1.08		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Manganese Compounds		HAP, TAP	7.90E-05	#/MM Btu	G	1.29		**0.05**	**0.22**	**0.05**	**0.22**	**0.04**	**0.16**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.20E-07	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP	8.60E-04	#/MM Btu	F	1		**0.43**	**1.88**	**0.43**	**1.88**	**0.30**	**1.32**
Methyl ethyl ketone	78933	HAP, TAP	2.40E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	2.30E-05	#/MM Btu	F	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP	3.50E-04	#/MM Btu	F	1		**0.17**	**0.76**	**0.17**	**0.76**	**0.12**	**0.54**
m-Xylene	108383	HAP, TAP	6.90E-10	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP	7.40E-05	#/MM Btu	F	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.03**	**0.11**
n-Hexane	110543	HAP, TAP	2.80E-04	#/MM Btu	F	1		**0.14**	**0.61**	**0.14**	**0.61**	**0.10**	**0.43**
Nickel Compounds		HAP, TAP	3.50E-06	#/MM Btu	G	1.27		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	2.60E-06	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Wood Waste	498	MM Btu/hr	359	MM Btu/hr	24	7	365	356
AEI Group ID = 008, Process Unit ID = 10								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP	4.80E-08	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP	2.00E-05	#/MM Btu	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Phosphorus	7723140	HAP, TAP	9.90E-05	#/MM Btu	G	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.03**	**0.15**
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP	6.10E-05	#/MM Btu	F	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.02**	**0.09**
p-Xylene	106423	HAP, TAP	6.90E-10	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	3.30E-06	#/MM Btu	G	1.41		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Styrene	100425	HAP, TAP	1.50E-05	#/MM Btu	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.02**
Tetrachloroethylene	127184	HAP, TAP	5.20E-05	#/MM Btu	F	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.08**
Toluene	108883	HAP, TAP	2.50E-06	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.90E-05	#/MM Btu	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP	1.80E-05	#/MM Btu	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 - Table 1.6-1, Bark/Wood-fired Boiler with ESP.
B) Emission factors from AP-42 Table 1.6-2.
C) Emission factors from AP-42 Table 1.6-3.
D) Emission factors from AP-42 Table 1.6-4.
E) Median emission factors from NCASI Technical Bulletin No. 701 - Table 19A, Wood-fired Boilers.
F) Emission factors from NCASI Technical Bulletin 858, Table 20A.
G) Emission factors from NCASI Technical Bulletin 858, Table 20B - Fabric Filter/ESP (except Ag, P, and Th wet scrubber - no ESP factor).
H) Average emission factors from NCASI Technical Bulletin No. 646 - Table 1, Bark/Wood Residue Boilers. Emission factor converted from #/TWWF to #/MM Btu assuming 9 MM Btu/TWWF.
I) Average emission factors from NCASI Technical Bulletin No. 646 - Table 2, Bark/Wood Residue Boilers. Emission factor converted from #/TDF to #/MM Btu assuming 18 MM Btu/TDF.
J) Average emission factors from NCASI Technical Bulletin No. 646 - Table 3, Bark/Wood Residue Boilers.
K) Primary VOC assumed to be formaldehyde.
L) Emission factor for wood and wood residuals combustion in EPA MRR, Table C-1 and C-2.
M) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B, C, D, E, F, G, H and I converted from #/TWWF to #/MM Btu assuming 4500 Btu/# WWF.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Natural Gas	720	MM Btu/hr	7	MM Btu/hr	24	7	365	358
AEI Group ID = 008, Process Unit ID = 9								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**1.37**	**5.99**	**1.37**	**5.99**	**0.01**	**0.06**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**1.37**	**5.99**	**1.37**	**5.99**	**0.01**	**0.06**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**1.37**	**5.99**	**1.37**	**5.99**	**0.01**	**0.06**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**4.10**	**17.98**	**4.10**	**17.98**	**0.04**	**0.18**
Total paticulate matter						1		**5.47**	**23.97**	**5.47**	**23.97**	**0.05**	**0.24**
Total particulate matter < 10 microns		Criteria				1		**5.47**	**23.97**	**5.47**	**23.97**	**0.05**	**0.24**
Total particulate matter < 2.5 microns		Criteria				1		**5.47**	**23.97**	**5.47**	**23.97**	**0.05**	**0.24**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.43**	**1.89**	**0.43**	**1.89**	**0.00**	**0.02**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**3.96**	**17.34**	**3.96**	**17.34**	**0.04**	**0.17**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**9.90**	**43.36**	**9.90**	**43.36**	**0.10**	**0.43**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**60.48**	**264.90**	**60.48**	**264.90**	**0.61**	**2.66**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	2.80E-01	#/MM Btu	A	1		**201.60**	**883.01**	**201.60**	**883.01**	**2.02**	**8.86**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**84,158.73**	**368,615.24**	**84,158.73**	**368,615.24**	**843.98**	**3,696.64**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**1.59**	**6.95**	**1.59**	**6.95**	**0.02**	**0.07**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.16**	**0.70**	**0.16**	**0.70**	**0.00**	**0.01**
Carbon dioxide equivalent		GHG			J	1		**84,241.27**	**368,976.76**	**84,241.27**	**368,976.76**	**844.81**	**3,700.26**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**1.55**	**6.78**	**1.55**	**6.78**	**0.02**	**0.07**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.24**	**1.05**	**0.24**	**1.05**	**0.00**	**0.01**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**1.30**	**5.68**	**1.30**	**5.68**	**0.01**	**0.06**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Natural Gas	720	MM Btu/hr	7	MM Btu/hr	24	7	365	358
AEI Group ID = 008, Process Unit ID = 9								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Utility/Large Industrial Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Utility Boilers.
E) All particulte matter assumed to be less than 2.5, per AP-42.
F) Primary VOC assumed to be formaldehyde.

H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - No. 6 Fuel Oil	700	MM Btu/hr	10	MM Btu/hr	24	7	365	358
AEI Group ID = 008, Process Unit ID = 8								
Title V Unit ID = 08. Equipment ID = 3705								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			1.51E-01	#/MM Btu	K	1		**105.43**	**461.79**	**105.43**	**461.79**	**1.45**	**6.37**
Filterable particulate matter < 10 microns		Criteria	1.07E-01	#/MM Btu	K	1		**74.95**	**328.26**	**74.95**	**328.26**	**1.03**	**4.53**
Filterable particulate matter < 2.5 microns		Criteria	7.80E-02	#/MM Btu	K	1		**54.62**	**239.24**	**54.62**	**239.24**	**0.75**	**3.30**
Condensible particulate matter < 2.5 microns		Criteria	1.00E-02	#/MM Btu	C	1		**7.00**	**30.66**	**7.00**	**30.66**	**0.10**	**0.42**
Total paticulate matter								**112.43**	**492.45**	**112.43**	**492.45**	**1.55**	**6.79**
Total particulate matter < 10 microns		Criteria						**81.95**	**358.92**	**81.95**	**358.92**	**1.13**	**4.95**
Total particulate matter < 2.5 microns		Criteria						**61.62**	**269.90**	**61.62**	**269.90**	**0.85**	**3.72**
Sulfur dioxide	7446095	Criteria	2.20E+00	#/MM Btu	A	1		**1,538.60**	**6,739.07**	**1,538.60**	**6,739.07**	**21.22**	**92.93**
Volatile organic compounds (as carbon)		Criteria	5.07E-03	#/MM Btu	B	1		**3.55**	**15.53**	**3.55**	**15.53**	**0.05**	**0.21**
Volatile organic compounds (as VOC)		Criteria	5.07E-03	#/MM Btu	M	2.5		**8.87**	**38.84**	**8.87**	**38.84**	**0.12**	**0.54**
Carbon monoxide		Criteria	3.33E-02	#/MM Btu	A	1		**23.33**	**102.20**	**23.33**	**102.20**	**0.32**	**1.41**
Lead		Criteria	2.80E-05	#/MM Btu	G	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.00**	**0.00**
Nitrogen oxides		Criteria	3.13E-01	#/MM Btu	A	1		**219.33**	**960.68**	**219.33**	**960.68**	**3.02**	**13.25**
Carbon dioxide	124389	GHG	7.51E+01	kg/MM Btu	I	1		**115,895.06**	**507,620.37**	**115,895.06**	**507,620.37**	**1,598.16**	**6,999.93**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**4.63**	**20.28**	**4.63**	**20.28**	**0.06**	**0.28**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.93**	**4.06**	**0.93**	**4.06**	**0.01**	**0.06**
Carbon dioxide equivalent		GHG			J			**116,279.32**	**509,303.43**	**116,279.32**	**509,303.43**	**1,603.46**	**7,023.14**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP	7.98E-02	#/MM Btu	L	1.23		**68.43**	**299.72**	**68.43**	**299.72**	**0.94**	**4.13**
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**3.34**	**14.64**	**3.34**	**14.64**	**0.05**	**0.20**
1,1,1-Trichloroethane	71556	HAP	1.57E-06	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	3.50E-05	#/MM Btu	F	1.20		**0.03**	**0.13**	**0.03**	**0.13**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	2.00E-05	#/MM Btu	H	1.32		**0.02**	**0.08**	**0.02**	**0.08**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	3.00E-06	#/MM Btu	H	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.10E-07	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.04E-05	#/MM Btu	H	1.14		**0.02**	**0.11**	**0.02**	**0.11**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r	2.31E-03	#/MM Btu	F	1		**1.62**	**7.09**	**1.62**	**7.09**	**0.02**	**0.10**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	5.63E-06	#/MM Btu	F	1.31		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP	4.04E-06	#/MM Btu	H	1.31		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP	4.01E-05	#/MM Btu	F	1.27		**0.04**	**0.16**	**0.04**	**0.16**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.24E-07	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	4.07E-04	#/MM Btu	D	1		**0.28**	**1.25**	**0.28**	**1.25**	**0.00**	**0.02**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)	2.49E-04	#/MM Btu	F	1.05		**0.18**	**0.80**	**0.18**	**0.80**	**0.00**	**0.01**
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	2.80E-05	#/MM Btu	G	1.08		**0.02**	**0.09**	**0.02**	**0.09**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	2.60E-05	#/MM Btu	H	1.29		**0.02**	**0.10**	**0.02**	**0.10**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	6.15E-05	#/MM Btu	H	1.08		**0.05**	**0.20**	**0.05**	**0.20**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	1.21E-05	#/MM Btu	H	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	1.06E-03	#/MM Btu	H	1.27		**0.94**	**4.14**	**0.94**	**4.14**	**0.01**	**0.06**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	7.27E-07	#/MM Btu	E	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - No. 6 Fuel Oil	700	MM Btu/hr	10	MM Btu/hr	24	7	365	358
AEI Group ID = 008, Process Unit ID = 8								
Title V Unit ID = 08. Equipment ID = 3705								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP	6.31E-05	#/MM Btu	F	1		**0.04**	**0.19**	**0.04**	**0.19**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP	8.67E-06	#/MM Btu	D	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.14E-05	#/MM Btu	H	1.41		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.13E-05	#/MM Btu	E	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S.
B) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-3.
C) Maximum emission factors from AP-42 for Residual Oil-fired Utility Boilers with ESPs Table 1.3-4: assumes 2.1% Sulfur.
D) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-8.
E) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-9 (PCDD is OCDD).
F) Maximum emission factors from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers - Table 1.3-11.
G) Emission factor from U.S. EPA document "Estimating Air Toxic Emissions from Coal and Oil Combustion Sources" [EPA-450/2-89-001] for Uncontrolled Residual Oil-fired Utility Boilers (Table 4-1).
H) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4b), Residual Oil-fired Utility Boilers.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.
K) PM-10 and PM-2.5 ratio based on AP-42, Table 1.3-4.
L) Maximum SO3 emission factor from AP-42 for Uncontrolled Residual Oil-fired Utility Boilers Table 1.3-1: assumes 2.1% S. Process variablilty factor adjusts SO3 to H2SO4.
M) Primary VOC assumed to be formaldehyde.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B, C and D converted from #/10^3 gal oil to #/MM Btu assuming 150,000 Btu/gal oil.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Tire Derived Fuel (TDF)	1.50	Ton TDF/hr	0.63	Ton TDF/hr	24	7	365	356
AEI Group ID = 008, Process Unit ID = 11								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			2.20E-06	#/MM Btu	D	1	99%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	2.20E-06	#/MM Btu	G	1	99%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	2.20E-06	#/MM Btu	G	1	99%	**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter								**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria						**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria						**0.01**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	1.40E-05	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria				1							
Volatile organic compounds (as VOC)		Criteria				1							
Carbon monoxide		Criteria	7.20E-05	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
Lead		Criteria	3.44E-02	#/Ton TDF	A	1		**0.05**	**0.23**	**0.05**	**0.23**	**0.02**	**0.09**
Nitrogen oxides		Criteria	9.80E-05	#/MM Btu	D	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.01**
Carbon dioxide	124389	GHG	8.60E+01	kg/MM Btu	E	1		**284.29**	**1,245.20**	**284.29**	**1,245.20**	**115.84**	**507.40**
Biogenic carbon dioxide	124389	GHG				1		**0.00**					
Methane	74828	GHG, (112r)	3.20E-02	kg/MM Btu	E	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.04**	**0.19**
Nitrous oxide	10024972	GHG	4.20E-03	kg/MM Btu	E	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.02**
Carbon dioxide equivalent		GHG			F			**290.82**	**1,273.79**	**290.82**	**1,273.79**	**118.50**	**519.05**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**7.62**	**33.39**	**7.62**	**33.39**	**3.11**	**13.61**
1,1,1-Trichloroethane	71556	HAP	1.30E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP	1.24E-05	#/MM Btu	C	1.20		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP	5.77E-03	#/Ton TDF	A	1.32		**0.01**	**0.05**	**0.01**	**0.05**	**0.00**	**0.02**
Benzene	71432	HAP, TAP	5.09E-05	#/MM Btu	B	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	2.93E-07	#/MM Btu	C	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP	2.84E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP	1.58E-03	#/Ton TDF	A	1.14		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r	2.19E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	5.35E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r	1.20E-04	#/MM Btu	B	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.01**
Chromium Compounds		HAP	2.27E-05	#/MM Btu	C	1.31		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	1.15E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r	5.02E+00	#/Ton TDF	A	1		**7.54**	**33.01**	**7.54**	**33.01**	**3.07**	**13.45**
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP	5.47E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	3.44E-02	#/Ton TDF	A	1.08		**0.06**	**0.24**	**0.06**	**0.24**	**0.02**	**0.10**
Manganese Compounds		HAP, TAP	3.40E-05	#/MM Btu	C	1.29		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP	4.14E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	5.70E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP	2.05E-05	#/MM Btu	C	1.27		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	1.22E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Combination Boiler 2 - Tire Derived Fuel (TDF)	1.50	Ton TDF/hr	0.63	Ton TDF/hr	24	7	365	356
AEI Group ID = 008, Process Unit ID = 11								
Title V Unit ID = 08. Equipment ID = 3705								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	4.14E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP	2.65E-05	#/MM Btu	C	1.41		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Styrene	100425	HAP, TAP	1.83E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.00E-06	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factor developed from Bowater stack test (3/1/2001).
B) Emission factor from "Air Emissions from Scrap Tire Combustion" (EPA-600/R-97-115), Table 18 - Greater of 7%, 15%, 17%, or 19% TDF.
C) Emission factor from "Air Emissions from Scrap Tire Combustion" (EPA-600/R-97-115), Table 19 - 100% TDF.
D) Emission factor from "Air Emissions from Scrap Tire Combustion" (EPA-600/R-97-115), Table 21 - 100% TDF.
E) Emission factor for tires combustion in EPA MRR, Table C-1 and C-2.
F) Emission factor based on GWP in EPA MRR, Table A-1.
G) PM-10 and PM-2.5 emissions assumed equivalent to TPM.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is maximum expected production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
per Machine Air Make-up Units - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 9900								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter								**0.71**	**3.10**	**0.71**	**3.10**	**0.00**	**0.02**
Filterable particulate matter < 10 microns		Criteria						**0.35**	**1.55**	**0.35**	**1.55**	**0.00**	**0.02**
Filterable particulate matter < 2.5 microns		Criteria						**0.24**	**1.05**	**0.24**	**1.05**	**0.00**	**0.02**
Condensible particulate matter < 2.5 microns		Criteria						**0.72**	**3.15**	**0.72**	**3.15**	**0.01**	**0.05**
Total paticulate matter								**1.17**	**5.11**	**1.17**	**5.11**	**0.01**	**0.06**
Total particulate matter < 10 microns		Criteria						**0.96**	**4.20**	**0.96**	**4.20**	**0.01**	**0.06**
Total particulate matter < 2.5 microns		Criteria						**0.96**	**4.20**	**0.96**	**4.20**	**0.01**	**0.06**
Sulfur dioxide	7446095	Criteria						**2.51**	**10.99**	**2.51**	**10.99**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria						**0.69**	**3.04**	**0.69**	**3.04**	**0.01**	**0.04**
Volatile organic compounds (as VOC)		Criteria						**1.74**	**7.61**	**1.74**	**7.61**	**0.02**	**0.11**
Carbon monoxide		Criteria						**10.61**	**46.47**	**10.61**	**46.47**	**0.15**	**0.67**
Lead		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria						**12.63**	**55.32**	**12.63**	**55.32**	**0.18**	**0.79**
Carbon dioxide	124389	GHG						**14,763.78**	**64,665.35**	**14,763.78**	**64,665.35**	**211.97**	**928.41**
Biogenic carbon dioxide	124389	GHG						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)						**0.32**	**1.38**	**0.32**	**1.38**	**0.00**	**0.02**
Nitrous oxide	10024972	GHG						**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG						**14,778.26**	**64,728.77**	**14,778.26**	**64,728.77**	**212.17**	**929.32**
Chlorine dioxide	10049044	112r						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfuric acid mist	7664939	TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen Sulfide	7783064	NSPS, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Sulfur)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total 112(b) Hazardous Air Pollutants								**0.27**	**1.19**	**0.27**	**1.19**	**0.00**	**0.02**
1,1,1-Trichloroethane	71556	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2,4-Trichlorobenzene	120821	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrolein	107028	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Arsenic Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromoform	75252	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cadmium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon tetrachloride	56235	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Catechol	120809	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chlorobenzene	108907	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cobalt Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cyanide Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r)						**0.04**	**0.18**	**0.04**	**0.18**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hexachloroethane	67721	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrogen fluoride	7664393	HAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Iodomethane	74884	HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Mercury Compounds		HAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl ethyl ketone	78933	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP						**0.23**	**1.00**	**0.23**	**1.00**	**0.00**	**0.01**
Nickel Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Xylene	95476	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
per Machine Air Make-up Units - Worst Case Summary								
Detailed Process Unit Emissions entered into AEI								
Title V Unit ID = 06. Equipment ID = 9900								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill Air Make-Up Units - Natural Gas Firing	126	MM Btu/hr	4	MM Btu/hr	24	7	365	180
AEI Group ID = 006, Process Unit ID = 5								
Title V Unit ID = 06. Equipment ID = 9900								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter			1.90E-03	#/MM Btu	B	1		**0.24**	**1.05**	**0.24**	**1.05**	**0.00**	**0.02**
Filterable particulate matter < 10 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.24**	**1.05**	**0.24**	**1.05**	**0.00**	**0.02**
Filterable particulate matter < 2.5 microns		Criteria	1.90E-03	#/MM Btu	E	1		**0.24**	**1.05**	**0.24**	**1.05**	**0.00**	**0.02**
Condensible particulate matter < 2.5 microns		Criteria	5.70E-03	#/MM Btu	B	1		**0.72**	**3.15**	**0.72**	**3.15**	**0.01**	**0.05**
Total paticulate matter						1		**0.96**	**4.20**	**0.96**	**4.20**	**0.01**	**0.06**
Total particulate matter < 10 microns		Criteria				1		**0.96**	**4.20**	**0.96**	**4.20**	**0.01**	**0.06**
Total particulate matter < 2.5 microns		Criteria				1		**0.96**	**4.20**	**0.96**	**4.20**	**0.01**	**0.06**
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.08**	**0.33**	**0.08**	**0.33**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	5.50E-03	#/MM Btu	B	1		**0.69**	**3.04**	**0.69**	**3.04**	**0.01**	**0.04**
Volatile organic compounds (as VOC)		Criteria	5.50E-03	#/MM Btu	F	2.5		**1.74**	**7.61**	**1.74**	**7.61**	**0.02**	**0.11**
Carbon monoxide		Criteria	8.40E-02	#/MM Btu	A	1		**10.61**	**46.47**	**10.61**	**46.47**	**0.15**	**0.67**
Lead		Criteria	5.00E-07	#/MM Btu	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nitrogen oxides		Criteria	1.00E-01	#/MM Btu	A	1		**12.63**	**55.32**	**12.63**	**55.32**	**0.18**	**0.79**
Carbon dioxide	124389	GHG	5.30E+01	kg/MM Btu	I	1		**14,763.78**	**64,665.35**	**14,763.78**	**64,665.35**	**211.97**	**928.41**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	1.00E-03	kg/MM Btu	I	1		**0.28**	**1.22**	**0.28**	**1.22**	**0.00**	**0.02**
Nitrous oxide	10024972	GHG	1.00E-04	kg/MM Btu	I	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**14,778.26**	**64,728.77**	**14,778.26**	**64,728.77**	**212.17**	**929.32**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.27**	**1.19**	**0.27**	**1.19**	**0.00**	**0.02**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	2.00E-07	#/MM Btu	H	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	4.48E-06	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	1.20E-08	#/MM Btu	H	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	1.10E-06	#/MM Btu	H	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP	1.40E-06	#/MM Btu	H	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP	8.40E-08	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.33E-04	#/MM Btu	D	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	5.00E-07	#/MM Btu	B	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	3.80E-07	#/MM Btu	H	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	2.60E-07	#/MM Btu	H	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	6.10E-07	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP	1.80E-03	#/MM Btu	C	1		**0.23**	**1.00**	**0.23**	**1.00**	**0.00**	**0.01**
Nickel Compounds		HAP, TAP	2.10E-06	#/MM Btu	H	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill Air Make-Up Units - Natural Gas Firing	126	MM Btu/hr	4	MM Btu/hr	24	7	365	180
AEI Group ID = 006, Process Unit ID = 5								
Title V Unit ID = 06. Equipment ID = 9900								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	2.40E-08	#/MM Btu	H	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	3.40E-06	#/MM Btu	C	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Small Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Boilers.
E) Emission limit from permit 2440-0005-CM, Condition II.A.
F) All particulte matter assumed to be less than 2.5, per AP-42.
G) Primary VOC assumed to be formaldehyde.
H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for references A, B and C converted from #/10^6 scf natural gas to #/MM Btu assuming 1,000 Btu/scf natural gas.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine Air Make-Up Units - Propane Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 6								
Title V Unit ID = 06. Equipment ID = 9900								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			2.21E-03	#/MM Btu	A	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	2.21E-03	#/MM Btu	B	1		**0.11**	**0.46**	**0.11**	**0.46**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	5.52E-03	#/MM Btu	B	1		**0.26**	**1.15**	**0.26**	**1.15**	**0.00**	**0.00**
Total paticulate matter						1		**0.37**	**1.62**	**0.37**	**1.62**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.37**	**1.62**	**0.37**	**1.62**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.37**	**1.62**	**0.37**	**1.62**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	1.99E-04	#/MM Btu	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	1.10E-02	#/MM Btu	A	1		**0.53**	**2.31**	**0.53**	**2.31**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.10E-02	#/MM Btu	C	2.5		**1.32**	**5.77**	**1.32**	**5.77**	**0.00**	**0.00**
Carbon monoxide		Criteria	8.29E-02	#/MM Btu	A	1		**3.95**	**17.31**	**3.95**	**17.31**	**0.00**	**0.00**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.44E-01	#/MM Btu	A	1		**6.85**	**30.01**	**6.85**	**30.01**	**0.00**	**0.00**
Carbon dioxide	124389	GHG	6.15E+01	kg/MM Btu	D	1		**6,463.06**	**28,308.18**	**6,463.06**	**28,308.18**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	D	1		**0.32**	**1.38**	**0.32**	**1.38**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	D	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			E	1		**6,489.24**	**28,422.87**	**6,489.24**	**28,422.87**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r				1							
Acrylonitrile	107131	HAP, TAP, (112r				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r				1							
Chloromethane	74873	HAP, TAP, (112r				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine Air Make-Up Units - Propane Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
AEI Group ID = 006, Process Unit ID = 6								
Title V Unit ID = 06. Equipment ID = 9900								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Propane-fired Industrial Boilers - Table 1.5-1.
B) All particulate matter assumed tro be less than 2.5, consistent with AP-42..
C) Primary VOC assumed to be formaldehyde.
D) Emission factor for propane combustion in EPA MRR, Table C-1 and C-2.
E) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons propane to #/MM Btu assuming 90,500 Btu/gallon propane.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine Air Make-UP Units - Kerosene Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
Not entered in AEI - no 2010 emissions to report								
Title V Unit ID = 06. Equipment ID = 9900								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION VALUE	UNITS	BASIS	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			1.48E-02	#/MM Btu	A	1		**0.71**	**3.10**	**0.71**	**3.10**	**0.00**	**0.00**
Filterable particulate matter < 10 microns		Criteria	7.41E-03	#/MM Btu	B	1		**0.35**	**1.55**	**0.35**	**1.55**	**0.00**	**0.00**
Filterable particulate matter < 2.5 microns		Criteria	1.85E-03	#/MM Btu	B	1		**0.09**	**0.39**	**0.09**	**0.39**	**0.00**	**0.00**
Condensible particulate matter < 2.5 microns		Criteria	9.63E-03	#/MM Btu	C	1		**0.46**	**2.01**	**0.46**	**2.01**	**0.00**	**0.00**
Total paticulate matter						1		**1.17**	**5.11**	**1.17**	**5.11**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.81**	**3.56**	**0.81**	**3.56**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.55**	**2.40**	**0.55**	**2.40**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria	5.26E-02	#/MM Btu	A	1		**2.51**	**10.99**	**2.51**	**10.99**	**0.00**	**0.00**
Volatile organic compounds (as carbon)		Criteria	1.48E-03	#/MM Btu	D	1		**0.07**	**0.31**	**0.07**	**0.31**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	1.48E-03	#/MM Btu	H	2.5		**0.18**	**0.77**	**0.18**	**0.77**	**0.00**	**0.00**
Carbon monoxide		Criteria	3.70E-02	#/MM Btu	A	1		**1.77**	**7.74**	**1.77**	**7.74**	**0.00**	**0.00**
Lead		Criteria				1							
Nitrogen oxides		Criteria	1.48E-01	#/MM Btu	A	1		**7.07**	**30.95**	**7.07**	**30.95**	**0.00**	**0.00**
Carbon dioxide	124389	GHG	7.52E+01	kg/MM Btu	I	1		**7,907.94**	**34,636.76**	**7,907.94**	**34,636.76**	**0.00**	**0.00**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	I	1		**0.32**	**1.38**	**0.32**	**1.38**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	I	1		**0.06**	**0.28**	**0.06**	**0.28**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			J	1		**7,934.12**	**34,751.45**	**7,934.12**	**34,751.45**	**0.00**	**0.00**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.02**	**0.11**	**0.02**	**0.11**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP	1.75E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP	4.00E-06	#/MM Btu	G	1.32		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzene	71432	HAP, TAP	1.59E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	2.78		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.14		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP	3.00E-06	#/MM Btu	G	1.31		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP	4.71E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	3.56E-04	#/MM Btu	E	1		**0.02**	**0.07**	**0.02**	**0.07**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP	9.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Manganese Compounds		HAP, TAP	6.00E-06	#/MM Btu	G	1.29		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP	3.00E-06	#/MM Btu	G	1.08		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	8.37E-06	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP	3.00E-06	#/MM Btu	G	1.27		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
o-Cresol	95487	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine Air Make-UP Units - Kerosene Firing	48	MM Btu/hr	0.0	MM Btu/hr	24	7	365	361
Not entered in AEI - no 2010 emissions to report								
Title V Unit ID = 06. Equipment ID = 9900								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
o-Xylene	95476	HAP, TAP	8.07E-07	#/MM Btu	F	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP	2.44E-05	#/MM Btu	E	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP	1.50E-05	#/MM Btu	G	1.41		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.59E-05	#/MM Btu	F	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-1.
B) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-6.
C) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers < 100 MM Btu/hr - Table 1.3-2.
D) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Industrial Boilers - Table 1.3-3.
E) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Boilers - Table 1.3-8.
F) Emission factors from AP-42 for Uncontrolled Residual Oil-fired Boilers - Table 1.3-9.
G) Emission factors from AP-42 for Uncontrolled Distillate Oil-fired Utility Boilers - Table 1.3-10.
H) Primary VOC assumed to be formaldehyde.
I) Emission factor for kerosene combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission factors for reference A converted from #/10^3 gallons kerosene to #/MM Btu assuming 135,000 Btu/gallon kerosene.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Roads	1,825	tons/day	1,610	tons/day	24	7	365	365
AEI Group ID = 009, Process Unit ID = 1								
Title V Unit ID = 11. Equipment ID = 1000								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter					C	1		**8.68**	**38.00**	**8.68**	**38.00**	**7.65**	**33.53**
Filterable particulate matter < 10 microns		Criteria			D	0.2		**1.74**	**7.60**	**1.74**	**7.60**	**1.53**	**6.71**
Filterable particulate matter < 2.5 microns		Criteria			D	0.05		**0.43**	**1.90**	**0.43**	**1.90**	**0.38**	**1.68**
Condensible particulate matter < 2.5 microns		Criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total paticulate matter								**8.68**	**38.00**	**8.68**	**38.00**	**7.65**	**33.53**
Total particulate matter < 10 microns		Criteria						**1.74**	**7.60**	**1.74**	**7.60**	**1.53**	**6.71**
Total particulate matter < 2.5 microns		Criteria						**0.43**	**1.90**	**0.43**	**1.90**	**0.38**	**1.68**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria				1							
Volatile organic compounds (as VOC)		Criteria				1							
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG											
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Roads	1,825	tons/day	1,610	tons/day	24	7	365	365
AEI Group ID = 009, Process Unit ID = 1								
Title V Unit ID = 11. Equipment ID = 1000								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:

C) Roads and Landfill emission estimates from Title V permit application, June 2000.
D) PM-10 and PM-2.5 ratio based on AP-42, Table 13.2-1.1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Landfill	1,825	tons/day	1,610	tons/day	24	7	365	365
AEI Group ID = 009, Process Unit ID = 1								
Title V Unit ID = 11. Equipment ID = 2900								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter					C	1		**8.68**	**38.00**	**8.68**	**38.00**	**7.65**	**33.53**
Filterable particulate matter < 10 microns		Criteria			D	0.2		**1.74**	**7.60**	**1.74**	**7.60**	**1.53**	**6.71**
Filterable particulate matter < 2.5 microns		Criteria			D	0.05		**0.43**	**1.90**	**0.43**	**1.90**	**0.38**	**1.68**
Condensible particulate matter < 2.5 microns		Criteria			D	0.05		**0.09**	**0.38**	**0.09**	**0.38**	**0.08**	**0.34**
Total paticulate matter								**8.76**	**38.38**	**8.76**	**38.38**	**7.73**	**33.86**
Total particulate matter < 10 microns		Criteria						**1.82**	**7.98**	**1.82**	**7.98**	**1.61**	**7.04**
Total particulate matter < 2.5 microns		Criteria						**0.52**	**2.28**	**0.52**	**2.28**	**0.46**	**2.01**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria				1							
Volatile organic compounds (as VOC)		Criteria				1							
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG											
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	2.1E-02	#/ADTP		1							
Total Reduced Sulfur (as TRS)		NSPS	4.6E-01	#/ADTP		1							
Total Reduced Sulfur (as Sulfur)		NSPS	3.0E-01	#/ADTP		1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.2E-01	#/ADTP		1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Landfill	1,825	tons/day	1,610	tons/day	24	7	365	365
AEI Group ID = 009, Process Unit ID = 1								
Title V Unit ID = 11. Equipment ID = 2900								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) WWTP emissions from 2004 Form R
B) WWTP emissions from 1999 LVHC/Condensate Permit Application (actual emissions adjusted to 2005 WWTP flow of 30.5 MGD).
C) Roads and Landfill emission estimates from Title V permit application, June 2000.
D) PM-10 and PM-2.5 ratio based on AP-42, Table 13.2-1.1.
E) Emission factors from NCASI Technical Bulletin 849, page 81.
I) Emission factor adjusted from total VOC to VOC as carbon based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
WWTP	1,825	tons/day	1,610	tons/day	24	7	365	365
AEI Group ID = 009, Process Unit ID = 1								
Title V Unit ID = 09. Equipment ID = 2901								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria			F	1		**45.81**	**200.67**	**45.81**	**200.67**	**35.99**	**157.62**
Volatile organic compounds (as VOC)		Criteria			B	2.5		**116.67**	**511.00**	**116.67**	**511.00**	**95.72**	**419.24**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	2.1E-02	#/ADTP	E	1		**1.60**	**6.99**	**1.60**	**6.99**	**1.41**	**6.17**
Total Reduced Sulfur (as TRS)		NSPS	4.6E-01	#/ADTP	E	1		**35.05**	**153.51**	**35.05**	**153.51**	**30.92**	**135.45**
Total Reduced Sulfur (as Sulfur)		NSPS	3.0E-01	#/ADTP	E	1		**22.81**	**99.92**	**22.81**	**99.92**	**20.13**	**88.16**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	3.2E-01	#/ADTP	E	1		**24.24**	**106.16**	**24.24**	**106.16**	**21.39**	**93.67**
Total 112(b) Hazardous Air Pollutants								**121.45**	**531.93**	**121.45**	**531.93**	**99.93**	**437.71**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)			A	1		**3.88**	**16.98**	**3.88**	**16.98**	**3.42**	**14.98**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP			A	1		**0.07**	**0.31**	**0.07**	**0.31**	**0.06**	**0.28**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)			A	1		**0.22**	**0.98**	**0.22**	**0.98**	**0.20**	**0.87**
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)			A	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)			A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.11**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP			A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)			A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.02**	**0.11**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP			B	1		**116.67**	**511.00**	**116.67**	**511.00**	**95.72**	**419.24**
Methyl ethyl ketone	78933	HAP, TAP			A	1		**0.33**	**1.46**	**0.33**	**1.46**	**0.29**	**1.29**
Methyl isobutyl ketone	108101	HAP, TAP			A	1		**0.08**	**0.36**	**0.08**	**0.36**	**0.07**	**0.31**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP			A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
WWTP	1,825	tons/day	1,610	tons/day	24	7	365	365
AEI Group ID = 009, Process Unit ID = 1								
Title V Unit ID = 09. Equipment ID = 2901								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP			A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP			A	1		**0.06**	**0.26**	**0.06**	**0.26**	**0.05**	**0.23**
Toluene	108883	HAP, TAP			A	1		**0.06**	**0.26**	**0.06**	**0.26**	**0.05**	**0.23**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) WWTP emissions from 2004 Form R
B) WWTP emissions from 1999 LVHC/Condensate Permit Application (actual emissions adjusted to 2005 WWTP flow of 30.5 MGD).

E) Emission factors from NCASI Technical Bulletin 849, page 81.
I) Emission factor adjusted from total VOC to VOC as carbon based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Pumps	7.5	MM Btu/hr	7.5	MM Btu/hr	24	7	365	0.3
AEI Group ID = 009, Process Unit ID = 2								
Title V Unit ID = 09. Equipment ID = 2902 to 2905								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter			3.10E-01	#/MM Btu	A	1		**2.32**	**10.16**	**2.32**	**10.16**	**0.00**	**0.01**
Filterable particulate matter < 10 microns		Criteria	3.10E-01	#/MM Btu	A	1		**2.32**	**10.16**	**2.32**	**10.16**	**0.00**	**0.01**
Filterable particulate matter < 2.5 microns		Criteria	3.10E-01	#/MM Btu	A	1		**2.32**	**10.16**	**2.32**	**10.16**	**0.00**	**0.01**
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**2.32**	**10.16**	**2.32**	**10.16**	**0.00**	**0.01**
Total particulate matter < 10 microns		Criteria				1		**2.32**	**10.16**	**2.32**	**10.16**	**0.00**	**0.01**
Total particulate matter < 2.5 microns		Criteria				1		**2.32**	**10.16**	**2.32**	**10.16**	**0.00**	**0.01**
Sulfur dioxide	7446095	Criteria	2.90E-01	#/MM Btu	A	1		**2.17**	**9.50**	**2.17**	**9.50**	**0.00**	**0.01**
Volatile organic compounds (as carbon)		Criteria	3.60E-01	#/MM Btu	A	1		**2.69**	**11.79**	**2.69**	**11.79**	**0.00**	**0.01**
Volatile organic compounds (as VOC)		Criteria	3.60E-01	#/MM Btu	C	2.5		**6.73**	**29.49**	**6.73**	**29.49**	**0.01**	**0.03**
Carbon monoxide		Criteria	9.50E-01	#/MM Btu	A	1		**7.11**	**31.13**	**7.11**	**31.13**	**0.01**	**0.03**
Lead		Criteria				1							
Nitrogen oxides		Criteria	2.84E+00	#/MM Btu	B	1		**27.26**	**110.49**	**27.26**	**110.49**	**10.08**	**0.04**
Carbon dioxide	124389	GHG	7.33E+01	kg/MM Btu	E	1		**1,207.95**	**5,290.81**	**1,207.95**	**5,290.81**	**1.10**	**4.83**
Biogenic carbon dioxide	124389	GHG				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methane	74828	GHG, (112r)	3.00E-03	kg/MM Btu	E	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.00**	**0.00**
Nitrous oxide	10024972	GHG	6.00E-04	kg/MM Btu	E	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Carbon dioxide equivalent		GHG			F	1		**1,212.05**	**5,308.79**	**1,212.05**	**5,308.79**	**1.11**	**4.85**
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.03**	**0.12**	**0.03**	**0.12**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	7.67E-04	#/MM Btu	D	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	9.33E-04	#/MM Btu	D	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	1.18E-03	#/MM Btu	D	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP	8.48E-05	#/MM Btu	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Pumps	7.5	MM Btu/hr	7.5	MM Btu/hr	24	7	365	0.3
AEI Group ID = 009, Process Unit ID = 2								
Title V Unit ID = 09. Equipment ID = 2902 to 2905								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP	4.09E-04	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP	2.85E-04	#/MM Btu	D	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**

8. REFERENCES:
A) Emission factors from AP-42 for Diesel Industrial Engines - Table 3.3-1.
B) Emission factor from AP-42 for Diesel Industrial Engines - Table 3.3-1, prorated for 3 engines meeting Tier I emission standards (745 hp-hr @ 0.015 lb/hp-hr) and one engine non Tier I engine (325 @ 0.031 lb/hp-hr).
C) Primary VOC assumed to be formaldehyde.
D) Emission factors from AP-42 for Diesel Industrial Engines - Table 3.3-2.
E) Emission factor for distillate #1 combustion in EPA MRR, Table C-1 and C-2.
F) Emission factor based on GWP in EPA MRR, Table A-1.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2005 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant Activities Summary								
ADD AEI Group ID = 010, Process Unit ID = 1								
Title V Unit ID = Attachment B Insigificant List								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Filterable particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Condensible particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total paticulate matter								0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 10 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Total particulate matter < 2.5 microns		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Sulfur dioxide	7446095	Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Volatile organic compounds (as carbon)		Criteria						48.08	210.58	48.08	210.58	4.03	17.64
Volatile organic compounds (as VOC)		Criteria						125.91	551.51	125.91	551.51	11.11	48.67
Carbon monoxide		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Lead		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen oxides		Criteria						0.00	0.00	0.00	0.00	0.00	0.00
Carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Biogenic carbon dioxide	124389	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Methane	74828	GHG, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Nitrous oxide	10024972	GHG						0.00	0.00	0.00	0.00	0.00	0.00
Carbon dioxide equivalent		GHG						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine dioxide	10049044	112r						0.00	0.00	0.00	0.00	0.00	0.00
Sulfuric acid mist	7664939	TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen Sulfide	7783064	NSPS, TAP						0.32	1.39	0.32	1.39	0.08	0.34
Total Reduced Sulfur (as TRS)		NSPS						28.59	125.24	28.59	125.24	2.93	12.84
Total Reduced Sulfur (as Sulfur)		NSPS						16.10	70.53	16.10	70.53	1.73	7.59
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						17.11	74.93	17.11	74.93	1.84	8.07
Total 112(b) Hazardous Air Pollutants								28.58	125.19	28.58	125.19	5.11	22.38
1,1,1-Trichloroethane	71556	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	75343	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	75354	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	79005	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	107062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	78875	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	120821	HAP						0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	106467	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2-Chloroacetophenone	532274	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrophenol	51286	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4-Dinitrotoluene	121142	HAP						0.00	0.00	0.00	0.00	0.00	0.00
2,4,6-Trichlorophenol	88062	HAP						0.00	0.00	0.00	0.00	0.00	0.00
4-Nitrophenol	100027	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Acetaldehyde	75070	HAP, TAP, (112r)						0.34	1.47	0.34	1.47	0.06	0.27
Acetophenone	98862	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Acrolein	107028	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Acrylonitrile	107131	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Aniline	62533	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Antimony Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Arsenic Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Benzene	71432	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Benzyl chloride	100447	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Beryllium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Biphenyl	92524	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	75252	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	74839	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cadmium Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	75150	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Carbon tetrachloride	56235	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Carbonyl sulfide	463581	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Catechol	120809	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chlorine	7782505	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	108907	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	67663	HAP, TAP, (112r)						0.00	0.02	0.00	0.02	0.00	0.00
Chloromethane	74873	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Chromium Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Chromium(+6) Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cobalt Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cresols	1319773	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cumene	98828	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Cyanide Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dibenzofuran	132649	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Diethanolamine	111422	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl phthalate	131113	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Dimethyl sulfate	77781	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethylbenzene	100414	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Ethyl chloride	75003	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Ethylene dibromide	106934	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Formaldehyde	50000	HAP, TAP, (112r)						0.00	0.01	0.00	0.01	0.00	0.00
Glycol Ethers		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	118741	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorocyclopentadiene	77474	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hexachloroethane	67721	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Hydrochloric acid	7647010	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Hydrogen fluoride	7664393	HAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Iodomethane	74884	HAP						0.00	0.00	0.00	0.00	0.00	0.00
Isophorone	78591	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Lead Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Manganese Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
m-Cresol	108394	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Mercury Compounds		HAP						0.00	0.00	0.00	0.00	0.00	0.00
Methanol	67561	HAP, TAP						27.20	119.15	27.20	119.15	4.90	21.47
Methyl ethyl ketone	78933	HAP, TAP						0.20	0.85	0.20	0.85	0.03	0.15
Methyl isobutyl ketone	108101	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Methyl hydrazine	60334	HAP, TAP, (112r)						0.00	0.00	0.00	0.00	0.00	0.00
Methyl methacrylate	80626	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methyl tert butyl ether	1634044	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	75092	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
m-Xylene	108383	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Naphthalene	91203	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
n-Hexane	110543	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
Nickel Compounds		HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00
o-Cresol	95487	HAP, TAP						0.08	0.34	0.08	0.34	0.03	0.11
o-Xylene	95476	HAP, TAP						0.00	0.01	0.00	0.01	0.00	0.00
p-Cresol	106445	HAP, TAP						0.00	0.00	0.00	0.00	0.00	0.00

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant Activities Summary								
ADD AEI Group ID = 010, Process Unit ID = 1								
Title V Unit ID = Attachment B Insigificant List								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP						**0.74**	**3.23**	**0.74**	**3.23**	**0.08**	**0.35**
Phosphorus	7723140	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Polycyclic organic matter		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Propionaldehyde	123386	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Xylene	106423	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Styrene	100425	HAP, TAP						**0.01**	**0.04**	**0.01**	**0.04**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Toluene	108883	HAP, TAP						**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl chloride	75014	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Xylenes	1330207	HAP, TAP						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:

9. NOTES:

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Weak Black Liquor Tanks	5	tanks	1	tanks	24	7	365	365

AEI emissions reported under Insignificant Summary
Title V Unit ID = Attachment B Insigificant List

3. POLLUTANT	4. CAS #	8. EMISSION FACTOR INFORMATION 5. TYPE	FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	5.4E-01	lb/hr/tank	A	1		**2.70**	**11.83**	**2.70**	**11.83**	**0.54**	**2.37**
Volatile organic compounds (as VOC)		Criteria	7.3E-01	lb/hr/tank	B	1		**3.65**	**15.99**	**3.65**	**15.99**	**0.73**	**3.20**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	1.9E-02	lb/hr/tank	A	1		**0.10**	**0.42**	**0.10**	**0.42**	**0.02**	**0.08**
Total Reduced Sulfur (as TRS)		NSPS	1.8E-01	lb/hr/tank	A	1		**0.88**	**3.85**	**0.88**	**3.85**	**0.18**	**0.77**
Total Reduced Sulfur (as Sulfur)		NSPS	1.1E-01	lb/hr/tank	A	1		**0.55**	**2.41**	**0.55**	**2.41**	**0.11**	**0.48**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.2E-01	lb/hr/tank	A	1		**0.58**	**2.56**	**0.58**	**2.56**	**0.12**	**0.51**
Total 112(b) Hazardous Air Pollutants								**0.32**	**1.39**	**0.32**	**1.39**	**0.06**	**0.28**
1,1,1-Trichloroethane	71556	HAP	2.0E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP	6.8E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	1.8E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	3.9E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	5.5E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	2.4E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP	3.2E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	6.0E-02	lb/hr/tank	A	1		**0.30**	**1.31**	**0.30**	**1.31**	**0.06**	**0.26**
Methyl ethyl ketone	78933	HAP, TAP	7.9E-04	lb/hr/tank	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
Methyl isobutyl ketone	108101	HAP, TAP	2.9E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP	2.3E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	7.2E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	4.5E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Weak Black Liquor Tanks	5	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	2.3E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.4E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	1.7E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.6E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	1.7E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10A.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Strong Black Liquor Tanks	4	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.1E-01	lb/hr/tank	A	1		**0.44**	**1.93**	**0.44**	**1.93**	**0.11**	**0.48**
Volatile organic compounds (as VOC)		Criteria	3.0E-01	lb/hr/tank	B	1		**1.20**	**5.26**	**1.20**	**5.26**	**0.30**	**1.31**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	4.9E-02	lb/hr/tank	A	1		**0.20**	**0.86**	**0.20**	**0.86**	**0.05**	**0.21**
Total Reduced Sulfur (as TRS)		NSPS	2.7E-01	lb/hr/tank	A	1		**1.08**	**4.73**	**1.08**	**4.73**	**0.27**	**1.18**
Total Reduced Sulfur (as Sulfur)		NSPS	1.8E-01	lb/hr/tank	A	1		**0.72**	**3.15**	**0.72**	**3.15**	**0.18**	**0.79**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.9E-01	lb/hr/tank	A	1		**0.77**	**3.35**	**0.77**	**3.35**	**0.19**	**0.84**
Total 112(b) Hazardous Air Pollutants								**0.74**	**3.23**	**0.74**	**3.23**	**0.18**	**0.81**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP	2.2E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	2.0E-02	lb/hr/tank	A	1		**0.08**	**0.35**	**0.08**	**0.35**	**0.02**	**0.09**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r	1.9E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	2.8E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r	1.4E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r	5.0E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	1.3E-01	lb/hr/tank	A	1		**0.52**	**2.28**	**0.52**	**2.28**	**0.13**	**0.57**
Methyl ethyl ketone	78933	HAP, TAP	1.1E-02	lb/hr/tank	A	1		**0.04**	**0.19**	**0.04**	**0.19**	**0.01**	**0.05**
Methyl isobutyl ketone	108101	HAP, TAP	2.2E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP	8.3E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	1.0E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	2.1E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Strong Black Liquor Tanks	4	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	2.2E-02	lb/hr/tank	A	1		**0.09**	**0.39**	**0.09**	**0.39**	**0.02**	**0.10**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	8.3E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	1.4E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP		lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	1.9E-04	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10B.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - White Liquor Tanks	3	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

	8. EMISSION FACTOR INFORMATION					PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.2E-02	lb/hr/tank	A	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.01**	**0.05**
Volatile organic compounds (as VOC)		Criteria	9.2E-01	lb/hr/tank	B	1		**2.76**	**12.09**	**2.76**	**12.09**	**0.92**	**4.03**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	9.0E-03	lb/hr/tank	A	1		**0.03**	**0.12**	**0.03**	**0.12**	**0.01**	**0.04**
Total Reduced Sulfur (as TRS)		NSPS	8.9E-01	lb/hr/tank	A	1		**2.66**	**11.64**	**2.66**	**11.64**	**0.89**	**3.88**
Total Reduced Sulfur (as Sulfur)		NSPS	5.6E-01	lb/hr/tank	A	1		**1.68**	**7.36**	**1.68**	**7.36**	**0.56**	**2.45**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	6.0E-01	lb/hr/tank	A	1		**1.79**	**7.82**	**1.79**	**7.82**	**0.60**	**2.61**
Total 112(b) Hazardous Air Pollutants								**0.10**	**0.43**	**0.10**	**0.43**	**0.03**	**0.14**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	3.1E-02	lb/hr/tank	A	1		**0.09**	**0.41**	**0.09**	**0.41**	**0.03**	**0.14**
Methyl ethyl ketone	78933	HAP, TAP	2.0E-03	lb/hr/tank	A	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - White Liquor Tanks	3	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10C.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Green Liquor Tanks	3	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.4E+00	lb/hr/tank	A	1		**4.20**	**18.40**	**4.20**	**18.40**	**1.40**	**6.13**
Volatile organic compounds (as VOC)		Criteria	4.0E+00	lb/hr/tank	B	1		**12.00**	**52.56**	**12.00**	**52.56**	**4.00**	**17.52**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	6.6E-02	lb/hr/tank	A	1		**0.20**	**0.87**	**0.20**	**0.87**	**0.07**	**0.29**
Total Reduced Sulfur (as Sulfur)		NSPS	4.4E-02	lb/hr/tank	A	1		**0.13**	**0.58**	**0.13**	**0.58**	**0.04**	**0.19**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.7E-02	lb/hr/tank	A	1		**0.14**	**0.61**	**0.14**	**0.61**	**0.05**	**0.20**
Total 112(b) Hazardous Air Pollutants								**11.38**	**49.83**	**11.38**	**49.83**	**3.79**	**16.61**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	3.1E-02	lb/hr/tank	A	1		**0.09**	**0.41**	**0.09**	**0.41**	**0.03**	**0.14**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	3.7E+00	lb/hr/tank	A	1		**11.10**	**48.62**	**11.10**	**48.62**	**3.70**	**16.21**
Methyl ethyl ketone	78933	HAP, TAP	1.5E-02	lb/hr/tank	A	1		**0.05**	**0.20**	**0.05**	**0.20**	**0.02**	**0.07**
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP	2.6E-02	lb/hr/tank	A	1		**0.08**	**0.34**	**0.08**	**0.34**	**0.03**	**0.11**
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Green Liquor Tanks	3	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	2.0E-02	lb/hr/tank	A	1		**0.06**	**0.26**	**0.06**	**0.26**	**0.02**	**0.09**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10C.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - High Density Pulp Tanks	13	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

3. POLLUTANT	4. CAS #	8. EMISSION FACTOR INFORMATION 5. TYPE	FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	8.6E-01	lb/hr/tank	C	1		**11.18**	**48.97**	**11.18**	**48.97**	**0.86**	**3.77**
Volatile organic compounds (as VOC)		Criteria	2.3E+00	lb/hr/tank	B	1		**29.90**	**130.96**	**29.90**	**130.96**	**2.30**	**10.07**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	7.7E-01	lb/hr/tank	A	1		**9.97**	**43.67**	**9.97**	**43.67**	**0.77**	**3.36**
Total Reduced Sulfur (as Sulfur)		NSPS	4.2E-01	lb/hr/tank	A	1		**5.46**	**23.91**	**5.46**	**23.91**	**0.42**	**1.84**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.5E-01	lb/hr/tank	A	1		**5.80**	**25.41**	**5.80**	**25.41**	**0.45**	**1.95**
Total 112(b) Hazardous Air Pollutants								**6.73**	**29.48**	**6.73**	**29.48**	**0.52**	**2.27**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.0E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	5.2E-03	lb/hr/tank	A	1		**0.07**	**0.30**	**0.07**	**0.30**	**0.01**	**0.02**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	4.3E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.2E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	1.3E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP	0.0E+00	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	4.9E-01	lb/hr/tank	A	1		**6.37**	**27.90**	**6.37**	**27.90**	**0.49**	**2.15**
Methyl ethyl ketone	78933	HAP, TAP	3.1E-03	lb/hr/tank	A	1		**0.04**	**0.18**	**0.04**	**0.18**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	1.1E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP	6.5E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	2.0E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	1.8E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - High Density Pulp Tanks	13	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	1.9E-02	lb/hr/tank	A	1		**0.25**	**1.08**	**0.25**	**1.08**	**0.02**	**0.08**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	6.5E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.7E-04	lb/hr/tank	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	4.7E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	8.6E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	5.2E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10A.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Median emission factors from NCASI Technical Bulletin 701, Table 7.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Low Density Pulp Tanks	18	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

	8. EMISSION FACTOR INFORMATION					PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	8.6E-01	lb/hr/tank	A	1		**15.48**	**67.80**	**15.48**	**67.80**	**0.86**	**3.77**
Volatile organic compounds (as VOC)		Criteria	2.3E+00	lb/hr/tank	B	1		**41.40**	**181.33**	**41.40**	**181.33**	**2.30**	**10.07**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP	0.0E+00	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as TRS)		NSPS	7.7E-01	lb/hr/tank	A	1		**13.81**	**60.47**	**13.81**	**60.47**	**0.77**	**3.36**
Total Reduced Sulfur (as Sulfur)		NSPS	4.2E-01	lb/hr/tank	A	1		**7.56**	**33.11**	**7.56**	**33.11**	**0.42**	**1.84**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.5E-01	lb/hr/tank	A	1		**8.03**	**35.18**	**8.03**	**35.18**	**0.45**	**1.95**
Total 112(b) Hazardous Air Pollutants								**9.32**	**40.82**	**9.32**	**40.82**	**0.52**	**2.27**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP	6.0E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r	5.2E-03	lb/hr/tank	A	1		**0.09**	**0.41**	**0.09**	**0.41**	**0.01**	**0.02**
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP	4.3E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP	1.2E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Chloroform	67663	HAP, TAP, (112r	1.3E-04	lb/hr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP	0.0E+00	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP	4.9E-01	lb/hr/tank	A	1		**8.82**	**38.63**	**8.82**	**38.63**	**0.49**	**2.15**
Methyl ethyl ketone	78933	HAP, TAP	3.1E-03	lb/hr/tank	A	1		**0.06**	**0.24**	**0.06**	**0.24**	**0.00**	**0.01**
Methyl isobutyl ketone	108101	HAP, TAP	1.1E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP	6.5E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP	2.0E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP	1.8E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Low Density Pulp Tanks	18	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP	1.9E-02	lb/hr/tank	A	1		**0.34**	**1.50**	**0.34**	**1.50**	**0.02**	**0.08**
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP	6.5E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP	2.7E-04	lb/hr/tank	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**
Tetrachloroethylene	127184	HAP, TAP	4.7E-05	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Toluene	108883	HAP, TAP	8.6E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Trichloroethylene	79016	HAP, TAP	5.2E-06	lb/hr/tank	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 11. Low denisty bleached storage tank emissions assumed to be 25% of unbleached high density storage tanks.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Median emission factors from NCASI Technical Bulletin 701, Table 7.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Gasoline Tanks	2	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

3. POLLUTANT	4. CAS #	8. EMISSION FACTOR INFORMATION 5. TYPE	FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	2,014	lb/yr/tank	A	1		**0.07**	**0.29**	**0.07**	**0.29**	**0.03**	**0.14**
Volatile organic compounds (as VOC)		Criteria	2,014	lb/yr/tank	A	1		**0.07**	**0.29**	**0.07**	**0.29**	**0.03**	**0.14**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Gasoline Tanks	2	tanks	1	tanks	24	7	365	365

AEI emissions reported under Insignificant Summary
Title V Unit ID = Attachment B Insigificant List

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emissions from EPA Tanks Program for 3,000 gallon gasoline storage tank.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Oil and Lube Tanks	50	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

3. POLLUTANT	4. CAS #	8. EMISSION FACTOR INFORMATION 5. TYPE	FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1				**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1				**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1				**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	2.11	lb/yr/tank	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Volatile organic compounds (as VOC)		Criteria	2.11	lb/yr/tank	B	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Oil and Lube Tanks	50	tanks	1	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emissions from EPA Tanks Program for 3,000 gallon fuel oil storage tank.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Coating and Additive Tanks (66 tanks)	2,192	ADTFP/Day	33	ADTFP/Day	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

3. POLLUTANT	4. CAS #	8. EMISSION FACTOR INFORMATION 5. TYPE	FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Filterable particulate matter						1							
Filterable particulate matter < 10 microns		Criteria				1							
Filterable particulate matter < 2.5 microns		Criteria				1							
Condensible particulate matter < 2.5 microns		Criteria				1							
Total paticulate matter						1				**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 10 microns		Criteria				1				**0.00**	**0.00**	**0.00**	**0.00**
Total particulate matter < 2.5 microns		Criteria				1				**0.00**	**0.00**	**0.00**	**0.00**
Sulfur dioxide	7446095	Criteria				1							
Volatile organic compounds (as carbon)		Criteria	1.53E-01	#/ADTFP	A	1		**13.97**	**61.21**	**13.97**	**61.21**	**0.21**	**0.93**
Volatile organic compounds (as VOC)		Criteria	1.53E-01	#/ADTFP	A	2.5		**34.94**	**153.03**	**34.94**	**153.03**	**0.53**	**2.32**
Carbon monoxide		Criteria				1							
Lead		Criteria				1							
Nitrogen oxides		Criteria				1							
Carbon dioxide	124389	GHG				1							
Biogenic carbon dioxide	124389	GHG				1							
Methane	74828	GHG, (112r)				1							
Nitrous oxide	10024972	GHG				1							
Carbon dioxide equivalent		GHG				1							
Chlorine dioxide	10049044	112r				1							
Sulfuric acid mist	7664939	TAP				1							
Hydrogen Sulfide	7783064	NSPS, TAP				1							
Total Reduced Sulfur (as TRS)		NSPS				1							
Total Reduced Sulfur (as Sulfur)		NSPS				1							
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS				1							
Total 112(b) Hazardous Air Pollutants								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1,1,1-Trichloroethane	71556	HAP				1							
1,1-Dichloroethane	75343	HAP				1							
1,1-Dichloroethene	75354	HAP, (112r)				1							
1,1,2-Trichloroethane	79005	HAP				1							
1,2-Dichloroethane	107062	HAP				1							
1,2-Dichloropropane	78875	HAP				1							
1,2,4-Trichlorobenzene	120821	HAP				1							
1,4-Dichlorobenzene	106467	HAP				1							
2-Chloroacetophenone	532274	HAP				1							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP				1							
2,4-Dinitrophenol	51286	HAP				1							
2,4-Dinitrotoluene	121142	HAP				1							
2,4,6-Trichlorophenol	88062	HAP				1							
4-Nitrophenol	100027	HAP				1							
Acetaldehyde	75070	HAP, TAP, (112r)				1							
Acetophenone	98862	HAP, TAP				1							
Acrolein	107028	HAP, TAP, (112r)				1							
Acrylonitrile	107131	HAP, TAP, (112r)				1							
Aniline	62533	HAP, TAP				1							
Antimony Compounds		HAP, TAP				1.20							
Arsenic Compounds		HAP, TAP				1.32							
Benzene	71432	HAP, TAP				1							
Benzyl chloride	100447	HAP, TAP				1							
Beryllium Compounds		HAP, TAP				2.78							
Biphenyl	92524	HAP, TAP				1							
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP				1							
Bromoform	75252	HAP, TAP				1							
Bromomethane	74839	HAP, TAP				1							
Cadmium Compounds		HAP, TAP				1.14							
Carbon disulfide	75150	HAP, TAP, (112r)				1							
Carbon tetrachloride	56235	HAP, TAP				1							
Carbonyl sulfide	463581	HAP, TAP, (112r)				1							
Catechol	120809	HAP, TAP				1							
Chlorine	7782505	HAP, TAP, (112r)				1							
Chlorobenzene	108907	HAP, TAP				1							
Chloroform	67663	HAP, TAP, (112r)				1							
Chloromethane	74873	HAP, TAP, (112r)				1							
Chromium Compounds		HAP				1.31							
Chromium(+6) Compounds		HAP, TAP				1.31							
Cobalt Compounds		HAP, TAP				1.27							
Cresols	1319773	HAP, TAP				1							
Cumene	98828	HAP, TAP				1							
Cyanide Compounds		HAP, TAP				1							
Dibenzofuran	132649	HAP, TAP				1							
Diethanolamine	111422	HAP, TAP				1							
Dimethyl phthalate	131113	HAP, TAP				1							
Dimethyl sulfate	77781	HAP, TAP				1							
Ethylbenzene	100414	HAP, TAP				1							
Ethyl chloride	75003	HAP, TAP, (112r)				1							
Ethylene dibromide	106934	HAP, TAP				1							
Formaldehyde	50000	HAP, TAP, (112r)				1							
Glycol Ethers		HAP, TAP				1							
Hexachlorobenzene	118741	HAP, TAP				1							
Hexachlorocyclopentadiene	77474	HAP, TAP				1							
Hexachloroethane	67721	HAP, TAP				1							
Hydrochloric acid	7647010	HAP, TAP, (112r)				1							
Hydrogen fluoride	7664393	HAP, (112r)				1.05							
Iodomethane	74884	HAP				1							
Isophorone	78591	HAP, TAP				1							
Lead Compounds		HAP, TAP				1.08							
Manganese Compounds		HAP, TAP				1.29							
m-Cresol	108394	HAP, TAP				1							
Mercury Compounds		HAP				1.08							
Methanol	67561	HAP, TAP				1							
Methyl ethyl ketone	78933	HAP, TAP				1							
Methyl isobutyl ketone	108101	HAP, TAP				1							
Methyl hydrazine	60334	HAP, TAP, (112r)				1							
Methyl methacrylate	80626	HAP, TAP				1							
Methyl tert butyl ether	1634044	HAP, TAP				1							
Methylene chloride	75092	HAP, TAP				1							
m-Xylene	108383	HAP, TAP				1							
Naphthalene	91203	HAP, TAP				1							
n-Hexane	110543	HAP, TAP				1							
Nickel Compounds		HAP, TAP				1.27							
o-Cresol	95487	HAP, TAP				1							
o-Xylene	95476	HAP, TAP				1							
p-Cresol	106445	HAP, TAP				1							

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Coating and Additive Tanks (66 tanks)	2,192	ADTFP/Day	33	ADTFP/Day	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Pentachlorophenol	87865	HAP, TAP				1							
Phenol	108952	HAP, TAP				1							
Phosphorus	7723140	HAP, TAP				1							
Polycyclic organic matter		HAP, TAP				1							
Propionaldehyde	123386	HAP, TAP				1							
p-Xylene	106423	HAP, TAP				1							
Selenium Compounds		HAP, TAP				1.41							
Styrene	100425	HAP, TAP				1							
Tetrachloroethylene	127184	HAP, TAP				1							
Toluene	108883	HAP, TAP				1							
Trichloroethylene	79016	HAP, TAP				1							
Vinyl acetate	108054	HAP, TAP, (112r)				1							
Vinyl chloride	75014	HAP, TAP				1							
Xylenes	1330207	HAP, TAP				1							

8. REFERENCES:
A) Emissions assuming 0.001 lb VOC/gallon coating (additive) and 13.1 lb/gallon. Assumed maximum production to avoid annual re-calculation.

9. NOTES:
Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Actual production is calendar year 2010 production rate.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

South Carolina Department of Health and Environmental Control

Title V Permit Application
Facility Wide Information – Form E
Bureau of Air Quality

Please Refer to Instruction / Definitions Pages Before Completing This Form

FACILITY WIDE RAW MATERIALS AND PRODUCTS				
1. Raw Materials	**2. Quantity**	**3. Products (List Products in order of major to minor)**	**4. SIC /NAICS Code**	**5. Production Rate**
Wood	3,445,000 tons/year	Coated paper	2621 322122 322121	800,665 air dried tons
Starch	16,000 tons	Market Pulp	2611 322110	296,546 air dried tons
Latex	24,000 tons	Turpentine	2611 322110	200,000 gallons
Clay	240,000 tons			
Dye	3,000 tons			
Optical Brighteners	16,000 tons			
Paper Additives	10,000 tons			
Makeup Lime	36,525 tons			
Sodium Chlorate	35,000 tons			
Sulfuric Acid	17,500 tons			
Methanol	3,500 tons			
Sodium Hydrosulfide	3,500 tons			

South Carolina Department of Health and Environmental Control

Title V Permit Application
Facility Wide Total Emissions – Form F
Bureau of Air Quality

Please Refer to Instruction / Definitions Pages Before Completing This Form
(Include Insignificant Activity Emissions in Facility Wide Totals)

FACILITY WIDE TOTAL EMISSIONS			
1. Pollutant	**2. CAS No. (If Applicable)**	**3. Uncontrolled Emissions (TPY)**	**4. Controlled Emissions (TPY)**
See Alternative Form F	See Alternative Form F	See Alternative Form F	See Alternative Form F

Alternate Form F - Facility Wide Total Emissions

Summary of Criteria Pollutant Emissions for the Facility.

POLLUTANT	CAS #	TYPE	Maximum Uncontrolled Emissions TPY	Maximum Controlled Emissions TPY	**2011 Actual Emissions TPY**
Filterable particulate matter			**48,855.83**	**1,469.75**	**582.64**
Filterable particulate matter < 10 microns		Criteria	**28,339.01**	**851.29**	**254.53**
Filterable particulate matter < 2.5 microns		Criteria	**22,888.45**	**604.42**	**187.41**
Condensible particulate matter < 2.5 microns		Criteria	**150.94**	**150.94**	**92.72**
Total paticulate matter			**49,002.01**	**1,597.50**	**675.36**
Total particulate matter < 10 microns		Criteria	**28,485.84**	**979.68**	**347.25**
Total particulate matter < 2.5 microns		Criteria	**23,035.53**	**733.06**	**280.13**
Sulfur dioxide	7446095	Criteria	**24,177.87**	**22,718.90**	**2,206.28**
Volatile organic compounds (as carbon)		Criteria	**3,446.47**	**995.20**	**553.60**
Volatile organic compounds (as VOC)		Criteria	**6,582.26**	**2,100.24**	**1,155.88**
Carbon monoxide		Criteria	**3,624.17**	**3,624.17**	**2,458.84**
Lead		Criteria	**0.72**	**0.72**	**0.19**
Nitrogen oxides		Criteria	**3,720.56**	**3,720.56**	**1,734.23**
Carbon dioxide	124389	GHG	**1,822,618.28**	**1,822,618.28**	**127,004.07**
Biogenic carbon dioxide	124389	GHG	**3,694,761.75**	**3,694,761.75**	**2,924,259.59**
Methane	74828	GHG, (112r)	**1,211.43**	**1,211.43**	**945.41**
Nitrous oxide	10024972	GHG	**192.58**	**192.58**	**150.89**
Carbon dioxide equivalent		GHG	**4,337,208.87**	**4,337,208.87**	**3,117,893.71**
Chlorine dioxide	10049044	112r	**82.22**	**4.20**	**3.51**
Sulfuric acid mist	7664939	TAP	**923.90**	**923.90**	**28.99**
Hydrogen Sulfide	7783064	NSPS, TAP	**629.88**	**24.18**	**18.91**
Total Reduced Sulfur (as TRS)		NSPS	**2,701.40**	**318.87**	**181.00**
Total Reduced Sulfur (as Sulfur)		NSPS	**1,861.11**	**200.40**	**120.02**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	**1,977.43**	**212.93**	**127.52**
Total 112(b) Hazardous Air Pollutants			**6,897.44**	**1,208.40**	**851.85**
1,1,1-Trichloroethane	71556	HAP	**0.78**	**0.57**	**0.43**
1,1-Dichloroethane	75343	HAP	**0.00**	**0.00**	**0.00**
1,1-Dichloroethene	75354	HAP, (112r)	**0.00**	**0.00**	**0.00**
1,1,2-Trichloroethane	79005	HAP	**1.30**	**0.90**	**0.66**
1,2-Dichloroethane	107062	HAP	**0.68**	**0.60**	**0.44**
1,2-Dichloropropane	78875	HAP	**0.13**	**0.13**	**0.09**
1,2,4-Trichlorobenzene	120821	HAP	**5.26**	**3.90**	**3.08**
1,4-Dichlorobenzene	106467	HAP	**0.00**	**0.00**	**0.00**
2-Chloroacetophenone	532274	HAP	**0.00**	**0.00**	**0.00**
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	HAP	**0.00**	**0.00**	**0.00**
2,4-Dinitrophenol	51286	HAP	**0.00**	**0.00**	**0.00**
2,4-Dinitrotoluene	121142	HAP	**0.00**	**0.00**	**0.00**
2,4,6-Trichlorophenol	88062	HAP	**0.00**	**0.00**	**0.00**
4-Nitrophenol	100027	HAP	**0.00**	**0.00**	**0.00**
Acetaldehyde	75070	HAP, TAP, (112r	**73.47**	**31.56**	**25.02**
Acetophenone	98862	HAP, TAP	**8.93**	**7.98**	**6.49**
Acrolein	107028	HAP, TAP, (112r	**1.37**	**0.69**	**0.51**
Acrylonitrile	107131	HAP, TAP, (112r	**0.00**	**0.00**	**0.00**
Aniline	62533	HAP, TAP	**0.00**	**0.00**	**0.00**
Antimony Compounds		HAP, TAP	**0.40**	**0.40**	**0.01**
Arsenic Compounds		HAP, TAP	**0.35**	**0.35**	**0.04**
Benzene	71432	HAP, TAP	**2.13**	**1.89**	**1.37**
Benzyl chloride	100447	HAP, TAP	**0.00**	**0.00**	**0.00**
Beryllium Compounds		HAP, TAP	**0.02**	**0.02**	**0.00**
Biphenyl	92524	HAP, TAP	**3.96**	**3.96**	**2.74**
Bis(2-ethylhexyl)phthalate	117817	HAP, TAP	**0.01**	**0.01**	**0.00**
Bromoform	75252	HAP, TAP	**0.00**	**0.00**	**0.00**
Bromomethane	74839	HAP, TAP	**0.08**	**0.08**	**0.05**
Cadmium Compounds		HAP, TAP	**0.36**	**0.36**	**0.02**
Carbon disulfide	75150	HAP, TAP, (112r	**8.79**	**8.52**	**6.52**
Carbon tetrachloride	56235	HAP, TAP	**1.14**	**0.74**	**0.55**
Carbonyl sulfide	463581	HAP, TAP, (112r	**0.84**	**0.48**	**0.33**
Catechol	120809	HAP, TAP	**0.00**	**0.00**	**0.00**
Chlorine	7782505	HAP, TAP, (112r	**26.15**	**22.10**	**0.66**
Chlorobenzene	108907	HAP, TAP	**0.43**	**0.38**	**0.30**
Chloroform	67663	HAP, TAP, (112r	**26.52**	**24.66**	**20.61**
Chloromethane	74873	HAP, TAP, (112r	**0.35**	**0.35**	**0.22**
Chromium Compounds		HAP	**0.09**	**0.09**	**0.03**

Alternate Form F - Facility Wide Total Emissions

Summary of Criteria Pollutant Emissions for the Facility.

POLLUTANT	CAS #	TYPE	Maximum Uncontrolled Emissions TPY	Maximum Controlled Emissions TPY	**2011 Actual Emissions TPY**
Chromium(+6) Compounds		HAP, TAP	**0.05**	**0.05**	**0.03**
Cobalt Compounds		HAP, TAP	**0.48**	**0.48**	**0.01**
Cresols	1319773	HAP, TAP	**0.00**	**0.00**	**0.00**
Cumene	98828	HAP, TAP	**18.59**	**13.76**	**10.08**
Cyanide Compounds		HAP, TAP	**0.00**	**0.00**	**0.00**
Dibenzofuran	132649	HAP, TAP	**0.00**	**0.00**	**0.00**
Diethanolamine	111422	HAP, TAP	**0.00**	**0.00**	**0.00**
Dimethyl phthalate	131113	HAP, TAP	**0.00**	**0.00**	**0.00**
Dimethyl sulfate	77781	HAP, TAP	**0.00**	**0.00**	**0.00**
Ethylbenzene	100414	HAP, TAP	**8.12**	**7.81**	**6.38**
Ethyl chloride	75003	HAP, TAP, (112r	**0.00**	**0.00**	**0.00**
Ethylene dibromide	106934	HAP, TAP	**0.00**	**0.00**	**0.00**
Formaldehyde	50000	HAP, TAP, (112r	**10.41**	**10.40**	**7.09**
Glycol Ethers		HAP, TAP	**0.00**	**0.00**	**0.00**
Hexachlorobenzene	118741	HAP, TAP	**0.00**	**0.00**	**0.00**
Hexachlorocyclopentadiene	77474	HAP, TAP	**1.53**	**1.53**	**1.08**
Hexachloroethane	67721	HAP, TAP	**29.53**	**3.09**	**2.42**
Hydrochloric acid	7647010	HAP, TAP, (112r	**106.57**	**106.57**	**56.53**
Hydrofluoric acid	7664393	HAP, (112r)	**2.47**	**2.47**	**0.05**
Iodomethane	74884	HAP	**0.00**	**0.00**	**0.00**
Isophorone	78591	HAP, TAP	**0.00**	**0.00**	**0.00**
Lead Compounds		HAP, TAP	**0.78**	**0.78**	**0.21**
Manganese Compounds		HAP, TAP	**0.59**	**0.59**	**0.32**
m-Cresol	108394	HAP, TAP	**6.24**	**2.26**	**1.74**
Mercury Compounds		HAP	**0.63**	**0.63**	**0.01**
Methanol	67561	HAP, TAP	**6,420.92**	**907.25**	**657.56**
Methyl ethyl ketone	78933	HAP, TAP	**20.17**	**4.01**	**2.76**
Methyl isobutyl ketone	108101	HAP, TAP	**33.07**	**1.63**	**1.34**
Methyl hydrazine	60334	HAP, TAP, (112r	**0.00**	**0.00**	**0.00**
Methyl methacrylate	80626	HAP, TAP	**0.00**	**0.00**	**0.00**
Methyl tert butyl ether	1634044	HAP, TAP	**0.00**	**0.00**	**0.00**
Methylene chloride	75092	HAP, TAP	**2.75**	**2.58**	**1.95**
m-Xylene	108383	HAP, TAP	**0.89**	**0.37**	**0.28**
Naphthalene	91203	HAP, TAP	**2.42**	**2.42**	**1.59**
n-Hexane	110543	HAP, TAP	**20.21**	**17.13**	**1.67**
Nickel Compounds		HAP, TAP	**12.75**	**12.75**	**0.29**
o-Cresol	95487	HAP, TAP	**38.56**	**9.51**	**7.61**
o-Xylene	95476	HAP, TAP	**0.74**	**0.52**	**0.41**
p-Cresol	106445	HAP, TAP	**4.00**	**4.00**	**3.39**
Pentachlorophenol	87865	HAP, TAP	**0.00**	**0.00**	**0.00**
Phenol	108952	HAP, TAP	**14.62**	**12.26**	**7.26**
Phosphorus	7723140	HAP, TAP	**0.73**	**0.73**	**0.40**
Polycyclic organic matter		HAP, TAP	**0.10**	**0.10**	**0.00**
Propionaldehyde	123386	HAP, TAP	**6.82**	**6.82**	**5.17**
p-Xylene	106423	HAP, TAP	**0.89**	**0.37**	**0.28**
Selenium Compounds		HAP, TAP	**0.19**	**0.19**	**0.02**
Styrene	100425	HAP, TAP	**2.12**	**1.40**	**1.08**
Tetrachloroethylene	127184	HAP, TAP	**1.99**	**1.54**	**1.21**
Toluene	108883	HAP, TAP	**3.01**	**1.16**	**0.55**
Trichloroethylene	79016	HAP, TAP	**0.88**	**0.52**	**0.40**
Vinyl acetate	108054	HAP, TAP, (112r	**0.03**	**0.03**	**0.03**
Vinyl chloride	75014	HAP, TAP	**0.07**	**0.07**	**0.05**
Xylenes	1330207	HAP, TAP	**0.51**	**0.48**	**0.37**

Please Refer to Instruction / Definitions Pages Before Completing This Form

1. Insignificant Activity(IA) Unit ID:	2. Insignificant Activity Unit ID Description	3. Construction Permit ID or Approval Date (if applicable):	4. On SC Insignificant Activity List (Yes or No)	5. Pollutant(s)	6. Emission Rate (Uncontrolled)	7. Deminimis Rate
M38-0001	Turbine Electric Generator (44MW)	N/A	Yes (A.27)	None	None	None
M26-5000	Turbine Electric Generator (20MW)	N/A	Yes (A.27)	None	None	None
	Turbine Electric Generator on Steam Header	N/A	Yes (A.27)	None	None	None
M10-77	Elevated Water Tank	N/A	Yes (A.20)	None	None	None
M10-111	No. 1 Propane Tank	N/A	Yes (A.19)	None	None	None
M10-112	No. 2 Propane Tank	N/A	Yes (A.19)	None	None	None
M10-116	No. 2 Fuel Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-162	4,000 gallon Hydraulic Oil Tank-South	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-164	4,000 gallon Hydraulic Oil Tank-North	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-170	No. 1 Fuel Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-173	Bulk Oil Lubricating Van Oil Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-283	Fuel Oil Spill Tank at LWC shipping	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-306	No. 4 Lube Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-307	No. 5 Lube Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-308	No. 6 Lube Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-314	3,000 Gallon Diesel Fuel Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-315	1,000 Gallon Kerosene Fuel tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-338	Waste Oil Storage Tank at Fuel oil tanks	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-339	Oil/Water Separator Feed Tank, Fuel Oil tank	N/A	No	VOC	< 0.2 tpy	5 tpy

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M10-347	Above Ground Lube oil storage tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-348	Above Ground Lube oil storage tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M10-361	Oil/Water Separator Feed Tank at Truck Unloading	N/A	No	VOC	< 0.2 tpy	5 tpy
M12-41	Drinking Water Tank	N/A	Yes (A.20)	None	None	None
M12-45	Vacuum Priming Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M12-60	Finished Water Tank	N/A	Yes (A.20)	None	None	None
M12-96	Poly Phosphate Mix Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	5 tpy
M12-97	Poly Phosphate Day Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M12-113	Sodium Sulfite Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-117	Lime Solution Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-117	Brine Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-119	Sulfuric Acid Tank-15 Diameter (outside not vented)	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-121	Caustic tank – 16' Diameter	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-122	Demineralized Water Storage Tank	N/A	Yes (A.20)	None	None	None
M12-134	Sulfuric Acid Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-135	Caustic Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-135	Caustic Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy

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M12-216	Concentrated alum Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-218	Dilute Alum Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M12-679	West Woodyard Cooling Tower Water Tank	N/A	Yes (A.20)	None	None	None
M12-707	East Woodyard Cooling Tower Water tank	N/A	Yes (A.20)	None	None	None
M14-174	Bulk Defoamer Head Tank	N/A	Yes (A.20)	None	None	None
M15-5	Warm Water Tank	N/A	Yes (A.20)	None	None	None
M15-97	Bulk Defoamer Storage Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M17-479	Instrument Air Receiver Tank	N/A	Yes (A.25)	None	None	None
M19-9	93% Sulfuric Acid Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M19-59	Dilute Alum Head Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M19-60	Alum Constant Head Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M19-100	Concentrated Retention Aid Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M19-108	Color Tank North Row East	N/A	No	VOC	2.32 tpy	5 tpy
M19-109	Color Tank North Row Center	N/A	No	VOC	2.32 tpy	5 tpy
M19-110	Color Tank North Row West	N/A	No	VOC	2.32 tpy	5 tpy
M19-111	Color Tank South Row East	N/A	No	VOC	2.32 tpy	5 tpy
M19-112	Color Tank South Row West	N/A	No	VOC	2.32 tpy	5 tpy
M19-135	Clay Additive Supply Tank	N/A	No	VOC	2.32 tpy	5 tpy
M19-136	Clay Additive Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy

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M19-141	Deculator Condensate Water collecting Tank	N/A	Yes (A.20)	None	None	None
M20-11	Primary Flash Tank	N/A	Yes (A.25)	None	None	None
M20-28	No. 1 Fresh Water Collecting Tank	N/A	Yes (A.20)	None	None	None
M20-66	Felt Wash Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M20-157	Concentrated Felt Wash Mix Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M20-161	No. 1 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-162	No. 2 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-163	No. 3 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-164	No. 4 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-165	No. 5 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-166	No. 6 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-167	No. 7 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-168	No. 8 Steam Separator Tank	N/A	Yes (A.25)	None	None	None
M20-172	Secondary Flash Tank	N/A	Yes (A.25)	None	None	None
M20-183	Oil Tank A East	N/A	No	VOC	< 0.2 tpy	5 tpy
M20-184	Oil Tank A West	N/A	No	VOC	< 0.2 tpy	5 tpy
M20-187	Oil Sump Tank at Column 35	N/A	No	VOC	< 0.2 tpy	5 tpy
M20-188	Oil Sump Tank at Column 41	N/A	No	VOC	< 0.2 tpy	5 tpy

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M20-189	Oil Sump Tank at Column 55	N/A	No	VOC	< 0.2 tpy	5 tpy
M20-191	Acid Head Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M20-203	Retention Aid Mixing Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M20-215	Dilute Retention Aid Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M20-237	No. 2 Condensate Receiver Tank	N/A	Yes (A.20)	None	None	None
M20-265	Primary Collector Tank	N/A	Yes (A.20)	None	None	None
M20-266	Secondary Collector Tank	N/A	Yes (A.20)	None	None	None
M20-334	No. 2 Fresh Water Collecting Tank	N/A	Yes (A.20)	None	None	None
M20-345	PM Shower Condensate Tank	N/A	Yes (A.20)	None	None	None
M20-442	Caustic Felt Wash Storage Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M22-39	Propane Vapor Surge Tank	N/A	Yes (A.19)	None	None	None
M22-155	Pulp Cutter Blade Heater Water Tank	N/A	Yes (A.20)	None	None	None
M23-114	270 Gallon Fuel Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M25-172	No. 2 Cooling Water Collection Tank	N/A	Yes (A.20)	None	None	None
M26-33	No. 1 Cooling Water Collecting Tank	N/A	Yes (A.20)	None	None	None
M26-51	Condensate Collecting Tank	N/A	Yes (A.20)	None	None	None
M26-52	Demineralized Water Storage Tank	N/A	Yes (A.20)	None	None	None
M26-69	Boiler Continuous B.D.Flash Tank	N/A	Yes (A.20)	None	None	None

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M26-79	Phosphated Feed Tank	N/A	Yes (A.20)	None	None	None
M26-80	Caustic Feed Tank (Neutralizing Amine)	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M26-81	Neutralizing Amine Feed Tank	N/A	Yes (A.20)	None	None	None
M26-82	Hydrazine Feed Tank	N/A	Yes (A.20)	None	None	None
M26-5016	Turbine Oil Reservoir	N/A	No	VOC	< 0.2 tpy	5 tpy
M26-5063	No. 2 Control Air Compressor Receiver	N/A	Yes (A.25)	None	None	None
M27-177	25% Caustic Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M27-463	No. 1 Settling Aid Retention Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M27-464	No. 2 Settling Aid Retention Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M28-79	Sulfuric Acid Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M28-93	4% Caustic Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M28-136	Liquid Nitrogen Storage Tank	N/A	Yes (A.19)	None	None	None
M28-139	Emergency Water Tank	N/A	Yes (A.20)	None	None	None
M28-141	Sulfuric Acid Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M28-146	Sodium Chlorate Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M28-157	Sodium Chlorate Unloading Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M28-215	Sodium Chlorate Storage Tank C	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy

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M29-22	Air Compressor Receiver Tank	N/A	Yes (A.25)	None	None	None
M29-27	No. 2 Alum Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M29-28	No. 3 Alum Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M29-31	Anionic Polymer Mix Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M29-34	Anionic Polymer Day Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M29-36	No. 1 Alum Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M29-36	Acid Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M29-37	Alum Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M29-39	DAF Air Solution Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M29-40	Coagulation Contact Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M29-42	Flocculation Contact Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M29-44	DAF Sludge Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M29-46	DAF Clarifier Tank and Skimmer	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M29-59	Aeration Pond Defoamer Bulk Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M30-338	PM Drive Reducers Lube Oil Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M32-2	Type 1 Clay Storage Tank No. 2	N/A	No	VOC	2.32 tpy	5 tpy
M32-3	Outside Alum Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-31	No. 3 Cowles Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-32	No. 2 Cooked Starch Tanks	N/A	No	VOC	2.32 tpy	5 tpy

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M32- 34	No. 1 Cooked Starch Holding Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-42	No. 2 Cowles Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-43	No. 1 Cowles Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-55	No. 1 PM Coater Supply Tank No. 2	N/A	No	VOC	2.32 tpy	5 tpy
M32-56	No. 1 PM Coater Supply Tank No. 1	N/A	No	VOC	2.32 tpy	5 tpy
M32-64	No. 1 PM Coater Service Tank No. 1	N/A	No	VOC	2.32 tpy	5 tpy
M32-66	No. 1 PM Coater Service Tank No. 2	N/A	No	VOC	2.32 tpy	5 tpy
M32-72	No. 1 Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-80	Outside Alum Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-113	Titanium Dioxide Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-118	No. 1 Latex Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-119	No. 2 Latex Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-149	No. 2 Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-157	No. 1 Flash Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-175	No. 1 Insolublizer Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-188	No. 1 Calcium Stearate Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-189	No. 2 Calcium Stearate Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-194	Ammonia Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-200	No. 3 Latex Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-218	Outside Alum Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-254	No. 5 Latex Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-256	No. 6 Latex Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-257	No. 4 Latex Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy

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M32-267	No. 7 Calcined Clay Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-268	No. 6 Calcined Clay Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-328	No. 4 Delaminated Clay Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-330	No. 4 Delaminated Clay Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-341	No. 1 Starch Slurry Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-342	No. 2 Starch Slurry Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-345	No. 1 Starch Slurry Holding Tank	N/A	No	VOC	2.32 tpy	5 tpy
M32-346	No. 2 Starch Slurry Holding Tank	N/A	No	VOC	2.32 tpy	5 tpy
M33-83	Condensate Flash Tank	N/A	Yes (A.20)	None	None	None
M33-136	Propane Gas Tank	N/A	Yes (A.19)	None	None	None
M33-199	Cooling Water Collecting Tank	N/A	Yes (A.20)	None	None	None
M33-296	Supply Fan Lube Oil System Oil Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M33-299	No. 2 Alum Constant Head Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M36-16	Compression Tank-Old System	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M36-17	Refrigerant Receiver Old System	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M36-22	Well Drinking Water Storage Tank	N/A	Yes (A.20)	None	None	None
M36-56	Hot Water System Expansion Tank	N/A	Yes (A.20)	None	None	None
M36-59	Fuel Oil Day Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M36-68	Propane Storage Tank	N/A	Yes (A.19)	None	None	None

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M36-68	Propane Storage Tank	N/A	Yes (A.19)	None	None	None
M36-75	Potable Hot Water Storage Tank	N/A	Yes (A.20)	None	None	None
M36-84	Hot Water System Air Separator	N/A	Yes (A.20)	None	None	None
M36-85	Chilled Water System Expansion Tank	N/A	Yes (A.20)	None	None	None
M36-85	Chilled Water System Air Separator (2)	N/A	Yes (A.20)	None	None	None
M37-21	No. 2 Deaerating Feedwater Storage Tanks	N/A	Yes (A.20)	None	None	None
M37-30	Small Caustic Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M37-149	Emergency Start-up Air Compressor Receiver Tank	N/A	Yes (A.25)	None	None	None
M37-182	Air Receiver Tank for No. 6 and 7 Air Compressor	N/A	Yes (A.25)	None	None	None
M38-3	Main Lube Oil Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M39-106	Chilled Water System Air Separator	N/A	Yes (A.20)	None	None	None
M40-56	Red Dye Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M40-80	Concentrated Acid Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M40-82	5 % diluted sulfuric Acid tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M40-85	Alum Use Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M40-89	Blue Dye Tank	N/A	No	VOC	2.32 tpy	5 tpy
M40-91	Red Dye Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M40-93	Blue Dye Storage Tank	N/A	No	VOC	2.32 tpy	5 tpy

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M40-106	Caustic and Kerosene Measuring Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M40-108	Concentrated Solution Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M40-110	Dilute Solution Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M40-116	Alum dilution Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M40-122	Acid Measuring Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M40-161	Caustic Felt Wash Storage Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M40-173	Bulk Defoamer Storage Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M40-176	Soap Storage tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M40-177	Soap Head Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M40-212	Retention Aid Bulk Storage Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M40-213	Retention aid Mix Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M40-229	1-1/2% sulfuric Acid Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M41-10	Vacuum Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M41-237	Oil surge Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-238	2000 gallon Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-239	2000 gallon Oil Storage Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M40-245	Rotary Drum Filter Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M41-246	Rotary Drum filter Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M41-251	No. 1 Condensate Separator Tank	N/A	Yes (A.20)	None	None	None

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M41-253	No. 2 Condensate Separator Tank	N/A	Yes (A.20)	None	None	None
M41-257	No. 4 Condensate Separator Tank	N/A	Yes (A.20)	None	None	None
M41-260	Dryer Drainage Vacuum Receiver Tank	N/A	Yes (A.20)	None	None	None
M41-265	No. 5 Condensate Separator Tank	N/A	Yes (A.20)	None	None	None
M41-283	Fresh Water Collecting Tank	N/A	Yes (A.20)	None	None	None
M41-387	Reclaimed Felt Wash Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M41-400	Vacuum Pit Water To Pulp Mill Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M41-405	Oil Surge Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-407	Dry end Reducer Lube System Oil Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-441	Oil surge Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-445	Sump Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M41-450	Condensate collection Tank	N/A	Yes (A.20)	None	None	None
M41-460	High Pressure Pump Service Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M41-473	Headbox Body Temperature Control Water Tank	N/A	Yes (A.20)	None	None	None
M41-497	Mill Air Receiver Tank	N/A	Yes (A.25)	None	None	None
M41-540	Acid Water Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M41-655	Winder Lube Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-658	Winder Oil Surge Tank	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-685	Liebeck Pulper Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy

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M41-784	Instrument Air Emergency Reserve Tank	N/A	Yes (A.25)	None	None	None
M41-905	W.E. Lube Oil sump Station No. 2 T.S.	N/A	No	VOC	< 0.2 tpy	5 tpy
M41-1001	Caustic to Machine Rejects Storage Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M41-1014	pH Water Heat Exchanger Condensate Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M43-676	pH Water heat Exchanger Condensate tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M44-11	Hydrogen Peroxide Tank 'B'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-194	Borol Storage Tank 'A'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-198	Hydrosulfite Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-201	Sulfur Dioxide Storage Tank 'A'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-204	Cooling Water collection Tank	N/A	Yes (A.20)	None	None	None
M44-273	Sodium Silicate Storage Tank 'A'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-274	Sodium Aluminate Tank 'A'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-275	Sodium Aluminate Tank 'B'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-277	Caustic Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-309	Cooling Water Collection Tank	N/A	Yes (A.20)	None	None	None
M44-374	DTPA Storage Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M44-385	Stpp Mix Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy

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M44-392	Zinc Sulfate Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-402	Sodium Aluminate Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-404	Borol Storage Tank 'B'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-406	Alum Storage Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-408	Alum Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-411	Sulfur Dioxide Storage Tank 'B'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-413	Hydrogen Peroxide Tank 'C'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-423	Zinc sulfate Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-447	Sump Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M44-468	Hot white Water Collection Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M44-469	Sodium silicate Storage Tank 'B'	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-550	Hot Fresh Water Tank	N/A	Yes (A.20)	None	None	None
M44-725	Phosphate Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M44-727	Oxygen Scavenger Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M45-75	Stock Prep. Alum head Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M45-78	5% Caustic Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy

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M45-79	Alum Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M45-81	93% Sulfuric acid Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M45-87	1.5% Sulfuric Acid Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M45-99	Alum Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M45-100	No. 1 East Dye Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-102	No. 2 West Dye Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-104	No. 1 Dye use Tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-106	No. 2 Dye use Tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-110	No. 3 Dye use tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-117	Soap Bulk tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M45-136	Retention aid bulk Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M45-138	Clay Mix tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-138	Retention Aid Mix tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M45-155	Clay Use Tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-200	Deaerator vessel Seal Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M45-225	Sulfuric Acid Inhibitor Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M45-566	Calcined clay storage Tank	N/A	No	VOC	2.32 tpy	5 tpy
M45-568	Sodium aluminate Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M46-9	Felt Cleaning soap Head Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M46-10	Felt Cleaning Kerosene Head Tank	N/A	No	VOC	< 0.2 tpy	5 tpy

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M46-11	Felt Cleaner Mix Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M46-21	Felt Cleaner Use Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M46-92	Press Section Air Compressor Tank	N/A	Yes (A.25)	None	None	None
M46-321	Cooling Water Reclaim Tank	N/A	Yes (A.20)	None	None	None
M46-507	pH Water Tank	N/A	Yes (A.20)	None	None	None
M46-510	Retention aid Use Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M46-614	Chilled Water System No. 2 Expansion Tank	N/A	Yes (A.20)	None	None	None
M46-521	Separator Seal Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M46-788	Cooling Dryer separator Seal Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M47-17	No. 3 Flash Tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-80	No. 2 Coating supply Tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-154	No. 1 Dye Mix Tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-156	No. 2 Dye Mix tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-158	No. 1 Dye Holding tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-160	No. 2 Dye Holding Tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-300	No. 3Filler clay Tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-306	Viscosity Modifier Tank	N/A	No	VOC	2.32 tpy	5 tpy
M47-308	No. 2 Dye Holding Tank	N/A	No	VOC	2.32 tpy	5 tpy
M48-31	No. 1 Coating Service Tank	N/A	No	VOC	2.32 tpy	5 tpy
M48-129	Cooling Water Reclaim Tank	N/A	Yes (A.20)	None	None	None

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M48-259	No. 2 Coating Service Tank	N/A	No	VOC	2.32 tpy	5 tpy
M48-273	Chilled Water Tank	N/A	Yes (A.20)	None	None	None
M48-280	Coated Broke Alum head Tank	N/A	No	VOC	2.32 tpy	5 tpy
M49-37	No. 3 S/C Temperature Control system Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M49-88	No. 4 S/C Temperature Control system Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M50-140	Digester Extraction surge Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M50-390	Air Receiver Tank	N/A	Yes (A.25)	None	None	None
M50-393	LP Gas Tank	N/A	Yes (A.19)	None	None	None
M50-628	Trim Broke Pulper Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M51-29	Condensate Receive surge Tank	N/A	Yes (A.20)	None	None	None
M51-30	Continuous Blowdown tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M51-31	Intermittent Blowdown Tank.	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M51-202	Defoamer bulk Storage Tank	N/A	VOC < 5 tpy	VOC	2.32 tpy	VOC < 5 tpy
M51-204	Steam Condensate Surge Tank	N/A	Yes (A.20)	None	None	None
M51-255	No. 3 Condensate Separator tank	N/A	Yes (A.20)	None	None	None
M51-498	Nalco 2000 gallon Storage Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M61-215	Alum Mix Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy

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M61-285	Stpp Mix Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M61-309	Cooling Water Collection Tank	N/A	Yes (A.20)	None	None	None
M61-422	V-Brite Storage Tank 'B'	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M61-426	EDTA Storage Tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M61-429	EDTA Day tank	N/A	Emission Level < 5 tpy	VOC	2.32 tpy	Emission Level < 5 tpy
M61-430	Zinc sulfate Day Tank	N/A	Emission Level < 5 tpy	No known VOC or HAP content	None	Emission Level < 5 tpy
M62-91	Chilled Water Tank	N/A	Yes (A.20)	None	None	None
M63-630	Cal. Temp. Air Sys. Water Expansion Tank	N/A	Yes (A.20)	None	None	None
M14-30	White Liquor Measuring Tank	N/A	No	None	None	Retired from service-Not permitted
M14-31	Black Liquor Measuring Tank	N/A	No	None	None	Retired from service-Not permitted
M14-46	Hot water Storage Tank	N/A	No	None	None	Retired from service-Not permitted
M14-93	Blow Heat Accumulator Tank	N/A	No	None	None	Retired from service-Not permitted
M15-01	Blow Tank No.1-South	N/A	No	None	None	Retired from service-Not permitted

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M15-118	M-C PUMP To No. 3 Br. H.D. Standpipe	N/A	No	None	None	Retired from service-Not permitted
M15-125	Blow Tank No. 2 North	N/A	No	None	None	Retired from service-Not permitted
M15-174	No. 4 Black Liquor Filtrate Tank	N/A	No	None	None	Retired from service-Not permitted
M15-36	No. 1 Black Liquor Filtrate Tank	N/A	No	None	None	Retired from service-Not permitted
M15-40	No. 2 Black Liquor Filtrate Tank	N/A	No	None	None	Retired from service-Not permitted
M15-42	No. 3 Black Liquor Filtrate Tank	N/A	No	None	None	Retired from service-Not permitted
M15-44	Collecting Tank For No. 4 PSG shower	N/A	No	None	None	Retired from service-Not permitted
M15-64	Brown Stock Mixing Tank	N/A	No	None	None	Retired from service-Not permitted
M15-67	Soap Catch Tank	N/A	No	None	None	Retired from service-Not permitted
M16-112	No. 4 Decker Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M16-120	Defoamer Bulk Storage Tank	N/A	No	None	None	Retired from service-Not permitted

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M16-121	Defoamer Day Tank	N/A	No	None	None	Retired from service-Not permitted
M16-133	Woodyard White Water Surge Tank	N/A	No	None	None	Retired from service-Not permitted
M16-152	No. 5 Decker Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M16-27	Chlorine Stage Deaeration Tank	N/A	No	None	None	Retired from service-Not permitted
M16-37	Secondary Head Box	N/A	No	None	None	Retired from service-Not permitted
M17-212	No. 1 CLO 2 Tower	N/A	No	None	None	Retired from service-Not permitted
M17-2152	No. 1 Chlorine Dioxide Tower	N/A	No	None	None	Retired from service-Not permitted
M17-22	First Hypo Bleach Tower	N/A	No	None	None	Retired from service-Not permitted
M17-223	Fifth Washer Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M17-377	10% Caustic Storage Tank	N/A	No	None	None	Retired from service-Not permitted
M17-390	No. 2 Washer Filtrate Deaeration Tank	N/A	No	None	None	Retired from service-Not permitted

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M17-425	Fifth Stage M-C Pump Stand Pipe	N/A	No	None	None	Retired from service-Not permitted
M17-430	Chlorination Tower	N/A	No	None	None	Retired from service-Not permitted
M17-439	Oxygen Storage Tank	N/A	No	None	None	Retired from service-Not permitted
M17-50	Chlorine Washer Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M17-52	Caustic Washer Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M17-55	First HYPO Washer Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M17-61	Bleach Plant Sewer Foam Tank	N/A	No	None	None	Retired from service-Not permitted
M17-79	20% Caustic Tank	N/A	No	None	None	Retired from service-Not permitted
M17-96	Fourth Washer Seal Tank	N/A	No	None	None	Retired from service-Not permitted
M25-12	No. 1 Recovery Dissolving Tank	N/A	No	None	None	Retired from service-Not permitted
M25-30	No. 1 Recovery Salt Cake Mix Tank	N/A	No	None	None	Retired from service-Not permitted

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M25-80	No. 1 Recovery Slurry Tank	N/A	No	None	None	Retired from service-Not permitted
M27-56	Lime Mud tank	N/A	No	None	None	Retired from service-Not permitted
M28-20	No. 2 Bleach Liquor Tank	N/A	No	None	None	Retired from service-Not permitted
M28-34	Chloride Head Tank	N/A	No	None	None	Retired from service-Not permitted

Please Refer to Instruction / Definitions Pages Before Completing This Form

STACK/VENT INFORMATION								
1. Exhaust Point ID	2. Emission/ Equipment ID	3. Pollutant	4. CAS No. (if applicable)	5. Date last modeled (if Applicable)	6. Modeled Emission Rates (lb/hr) (if applicable)	7. Stack Gas Exit Temp (degrees F)	8. Stack Gas Exhaust Velocity (ft/sec)	9. Non-Vertical Discharge (H) or Raincap (R)
5200	5200	CO		2005	61	141	34	
2000	2010	PM/PM10		2005	0.71	area	area	
2000	2010	SO2		2005	2.77	area	area	
2000	2010	NOX		2005	10	area	area	
2000	2010	CO		2005	4	area	area	
4600	4610	PM/PM10		2005	0.95	area	area	
4600	4610	SO2		2005	3.72	area	area	
4600	4610	NOX		2005	13.5	area	area	
4600	4610	CO		2005	5.2	area	area	
4100	4110-4130	PM/PM10		2005	0.71	area	area	
4100	4110-4130	SO2		2005	2.77	area	area	
4100	4110-4130	NOX		2005	10	area	area	
4100	4110-4130	CO		2005	4	area	area	
9900	9900	PM/PM10		2005	0.96	area	area	
9900	9900	SO2		2005	0.076	area	area	
9900	9900	NOX		2005	19.3	area	area	
9900	9900	CO		2005	10.6	area	area	
2505	2505	PM/PM10		2005	74.5	364.7	99.1	
2505	2505	SO2		2005	792	364.7	99.1	
2505	2505	NOX		2005	112.8	364.7	99.1	
2505	2505	CO		2005	56.9	364.7	99.1	

STACK/VENT INFORMATION								
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2510	2510	PM/PM10		2005	27	170.4	34.4	
2510	2510	SO2		2005	0.24	170.4	34.4	
2510	2510	NOX		2005	0.94	170.4	34.4	
5105	5105	PM/PM10		2005	78.1	342.1	61.7	
5105	5105	SO2		2005	792	342.1	61.7	
5105	5105	NOX		2005	146	342.1	61.7	
5105	5105	CO		2005	331	342.1	61.7	
5110	5110	PM/PM10		2005	17.0	170.4	34.4	
5110	5110	SO2		2005	0.43	170.4	34.4	
5110	5110	NOX		2005	1.7	170.4	34.4	
2723	2723	PM/PM10		2005	20.4	387	32.1	
2723	2723	SO2		2005	39.4	387	32.1	
2723	2723	NOX		2005	86.7	387	32.1	
2723	2723	CO		2005	24.3	387	32.1	
2700	2700	PM/PM10		2005	1.89	volume	volume	
2550	2550	PM/PM10		2005	68.8	473.7	99.6	
2550	2550	SO2		2005	752.4	473.7	99.6	
2550	2550	NOX		2005	105	473.7	99.6	
2550	2550	CO		2005	31.5	473.7	99.6	
2610S1	2605	PM/PM10		2005	235.2	363.8	47.2	
2610S1	2605	SO2		2005	862.4	363.8	47.2	
2610S1	2605	NOX		2005	122.8	363.8	47.2	

STACK/VENT INFORMATION								
1. Exhaust Point ID	2. Emission/ Equipment ID	3. Pollutant	4. CAS No. (if applicable)	5. Date last modeled (if Applicable)	6. Modeled Emission Rates (lb/hr) (if applicable)	7. Stack Gas Exit Temp (degrees F)	8. Stack Gas Exhaust Velocity (ft/sec)	9. Non-Vertical Discharge (H) or Raincap (R)
2610S1	2605	CO		2005	235.2	363.8	47.2	
2610S2	3705	PM/PM10		2005	298.8	405.2	62.3	
2610S2	3705	SO2		2005	1540	405.2	62.3	
2610S2	3705	NOX		2005	219.3	405.2	62.3	
2610S2	3705	CO		2005	298.8	405.2	62.3	
2610S1	5260 5270 9820	SO2		2005	862.4	363.8	47.2	
2610S1	5260 5270 9820	NOX		2005	71.0	363.8	47.2	
2610S1	5260 5270 9820	CO		2005	10.3	363.8	47.2	
2902	2902	PM/PM10		2005	0.72	850	31.8	
2902	2902	SO2		2005	0.67	850	31.8	
2902	2902	NOX		2005	10.08	850	31.8	
2902	2902	CO		2005	2.17	850	31.8	
2903	2903	PM/PM10		2005	0.76	850	31.8	
2903	2903	SO2		2005	0.71	850	31.8	
2903	2903	NOX		2005	5.18	850	31.8	
2903	2903	CO		2005	2.3	850	31.8	
2904	2904	PM/PM10		2005	0.44	850	31.8	
2904	2904	SO2		2005	0.41	850	31.8	
2904	2904	NOX		2005	3	850	31.8	

STACK/VENT INFORMATION								
1. Exhaust Point ID	2. Emission/ Equipment ID	3. Pollutant	4. CAS No. (if applicable)	5. Date last modeled (if Applicable)	6. Modeled Emission Rates (lb/hr) (if applicable)	7. Stack Gas Exit Temp (degrees F)	8. Stack Gas Exhaust Velocity (ft/sec)	9. Non-Vertical Discharge (H) or Raincap (R)
2904	2904	CO		2005	1.34	850	31.8	
2905	2905	PM/PM10		2005	0.44	850	31.8	
2905	2905	SO2		2005	0.41	850	31.8	
2905	2905	NOX		2005	3	850	31.8	
2905	2905	CO		2005	1.34	850	31.8	

***NOTE: Facility-wide emission rates as shown in Form D/F are lower than 2005 modeled emission rates.**

STACK/VENT INFORMATION (CONTINUED)									
1. Exhaust Point ID	10. Vertical component of Stack Exhaust Velocity (ft/sec)	11. UTM East	12. UTM North	13. Distance to Plant Boundary (ft)	14. Dimensions of Plume Obstructing Structure (ft)			15. Stack Height (ft)	16. Stack Diameter (ft)
					Height	Length	Width		
5200	34	509947	3855601	400	173	55	90	170	2
2000	area	509648	3855443	1850	area	area	area	80	50x100
2000	area	509648	3855443	1850	area	area	area	80	50x100
2000	area	509648	3855443	1850	area	area	area	80	50x100
2000	area	509648	3855443	1850	area	area	area	80	50x100
4600	area	509743	3855635	1150	area	area	area	80	50x100
4600	area	509743	3855635	1150	area	area	area	80	50x100
4600	area	509743	3855635	1150	area	area	area	80	50x100
4600	area	509743	3855635	1150	area	area	area	80	50x100
4100	area	509677	3855529	1800	area	area	area	80	50x100

STACK/VENT INFORMATION (CONTINUED)									
1. Exhaust Point ID	10. Vertical component of Stack Exhaust Velocity (ft/sec)	11. UTM East	12. UTM North	13. Distance to Plant Boundary (ft)	14. Dimensions of Plume Obstructing Structure (ft)			15. Stack Height (ft)	16. Stack Diameter (ft)
					Height	Length	Width		
4100	area	509677	3855529	1800	area	area	area	80	50x100
4100	area	509677	3855529	1800	area	area	area	80	50x100
4100	area	509677	3855529	1800	area	area	area	80	50x100
9900	area	509633	3855451	1400	area	area	area	80	50x100
9900	area	509633	3855451	1400	area	area	area	80	50x100
9900	area	509633	3855451	1400	area	area	area	80	50x100
9900	area	509633	3855451	1400	area	area	area	80	510x830
2505	99.1	510066	3855517	1050	148	120	180	195	7
2505	99.1	510066	3855517	1050	148	120	180	195	7
2505	99.1	510066	3855517	1050	148	120	180	195	7
2505	99.1	510066	3855517	1050	148	120	180	195	7
2510	34.4	510012	3855558	950	148	120	180	218	6
2510	34.4	510012	3855558	950	148	120	180	218	6
2510	34.4	510012	3855558	950	148	120	180	218	6
5105	61.7	510014	3855589	830	148	120	180	225	10.5
5105	61.7	510014	3855589	830	148	120	180	225	10.5
5105	61.7	510014	3855589	830	148	120	180	225	10.5
5105	61.7	510014	3855589	830	148	120	180	225	10.5
5110	34.4	510012	3855558	950	148	120	180	218	6
5110	34.4	510012	3855558	950	148	120	180	218	6
5110	34.4	510012	3855558	950	148	120	180	218	6
2723	32.1	510197	3855570	400	152	60	85	184	6

STACK/VENT INFORMATION (CONTINUED)									
1. Exhaust Point ID	10. Vertical component of Stack Exhaust Velocity (ft/sec)	11. UTM East	12. UTM North	13. Distance to Plant Boundary (ft)	14. Dimensions of Plume Obstructing Structure (ft)			15. Stack Height (ft)	16. Stack Diameter (ft)
					Height	Length	Width		
2723	32.1	510197	3855570	400	152	60	85	184	6
2723	32.1	510197	3855570	400	152	60	85	184	6
2723	32.1	510197	3855570	400	152	60	85	184	6
2700	volume	510252	3855499	570	volume	volume	volume	45	60
2550	99.6	510006	3855488	1350	148	120	180	195	7
2550	99.6	510006	3855488	1350	148	120	180	195	7
2550	99.6	510006	3855488	1350	148	120	180	195	7
2550	99.6	510006	3855488	1350	148	120	180	195	7
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2610S2	62.3	509971	3855449	1350	148	120	180	228	10
2610S2	62.3	509971	3855449	1350	148	120	180	228	10
2610S2	62.3	509971	3855449	1350	148	120	180	228	10
2610S2	62.3	509971	3855449	1350	148	120	180	228	10
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2610S1	47.2	509990	3855460	1450	148	120	180	228	10
2902	31.8	510300	3854350	410	None	None	None	8	0.5
2902	31.8	510300	3854350	410	None	None	None	8	0.5
2902	31.8	510300	3854350	410	None	None	None	8	0.5

STACK/VENT INFORMATION (CONTINUED)									
1. Exhaust Point ID	10. Vertical component of Stack Exhaust Velocity (ft/sec)	11. UTM East	12. UTM North	13. Distance to Plant Boundary (ft)	14. Dimensions of Plume Obstructing Structure (ft)			15. Stack Height (ft)	16. Stack Diameter (ft)
					Height	Length	Width		
2902	31.8	510300	3854350	410	None	None	None	8	0.5
2903	31.8	510300	3854350	410	None	None	None	8	0.5
2903	31.8	510300	3854350	410	None	None	None	8	0.5
2903	31.8	510300	3854350	410	None	None	None	8	0.5
2903	31.8	510300	3854350	410	None	None	None	8	0.5
2904	31.8	511000	3855500	2165	None	None	None	8	0.5
2904	31.8	511000	3855500	2165	None	None	None	8	0.5
2904	31.8	511000	3855500	2165	None	None	None	8	0.5
2904	31.8	511000	3855500	2165	None	None	None	8	0.5
2905	31.8	510900	3855750	3035	None	None	None	8	0.5
2905	31.8	510900	3855750	3035	None	None	None	8	0.5
2905	31.8	510900	3855750	3035	None	None	None	8	0.5
2905	31.8	510900	3855750	3035	None	None	None	8	0.5

Please Refer to Instruction / Definitions Pages Before Completing This Form

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	**2. Unit ID**	**3. Pollutant/Standard**	**4. Limit**	**5. Reference Method**	**6. Applicable Regulation (Regulation Citation/Condition)**
01	1300	Fugitive PM	minimize airborne emissions	N/A	SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.6
01	1300	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
01	1300	PM	≤ 76.13 lb/hr	N/A	SC Reg. 61-62.5, Std. 4, Section VIII
02	5210	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
02	5220	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
02	5230	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
02	5240	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
02	5250	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
02	5210	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	Method 16	40 CFR 60.282(a)(1)(iii)
02	5220	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	Method 16	40 CFR 60.282(a)(1)(iii)
03	5300	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
03	5300	chlorinated HAP	≥ 99% reduction or ≤ 10 ppmv	N/A	40 CFR 63.450
04	1790	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
04	1790	ClO2	RMP requirements	N/A	40 CFR 68
05	4400	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
05	4400	Production	456,300 ADTP/day	N/A	SC Reg. 61-62.5, Std. 7 (PSD)
06	2000	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
06	2005	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
06	4100	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	4110	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	4600	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	4605	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9700	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9701A	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9701B	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9702	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9703	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9704	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	2000 and 2005	PM	≤ 30.12 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
06	4100 and 4110	PM	≤ 43.34 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
06	4600 and 4605	PM	≤ 39.91 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
06	9700	PM	≤ 41.57 lb/hr	N/A	SC Reg. 61-62.5, Std. 4

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
06	9701A, 9701B, 9702, 9703, and 9704	PM	≤ 2.68 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
06	2010	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 1
06	4610	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	4120	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	4130	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	9900	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
06	2010	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	Method 5 Method 6	SC Reg. 61-62.5, Std. 1
06	4120	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	Method 5 Method 6	SC Reg. 61-62.5, Std. 1
06	4130	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	Method 5 Method 6	SC Reg. 61-62.5, Std. 1
06	4610	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	Method 5 Method 6	SC Reg. 61-62.5, Std. 1
06	9900	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	Method 5 Method 6	SC Reg. 61-62.5, Std. 1
06	4110	PM	≤ 0.0164 lb/MMBtu	Method 5	SC Reg. 61-62.5, Std. 7 (PSD)
06	4610	NOX	≤ 40 tpy	Method 7-7E	SC Reg. 61-62.1, Sec II, E (SM)
06	9900	NOX	≤ 40 tpy	Method 7-7E	SC Reg. 61-62.1, Sec II, E (SM)
06	4110	NOX	Low NOX burner	N/A	SC Reg. 61-62.5, Std. 7 (PSD)
06	2010	VOC	2.9 lb/gallon	Method 24	SC Reg. 61-62.5, Std. 5
06	2010 4610	HAP	≤ 0.04 kg/kg coating aplied	N/A	40 CFR 63.3370

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
07	2402	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
07	2500	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
07	2400	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
07	5100	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
07	2515	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
07	2520	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
07	5115	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
07	5120	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(A)
07	2700	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
07	2701	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
07	2702	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
07	2703	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
07	2505	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section III
07	2723	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section III
07	2510	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section III
07	5110	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section III
07	5105	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 4, Section III
07	5105	Opacity	≤ 35%	N/A	40 CFR 60.282(a)(1)(ii)

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
07	2505	PM	≤ 2.75 lb/T EADTUBP	Method 5	SC Reg. 61-62.5, Std. 4, Section III
07	2505	PM	0.044 gr/dscf @ 8% O2	Method 5	40 CFR 63.862(a)(1)(i)(A)
07	2510	PM	≤ 2.75 lb/T EADTUBP	Method 5	SC Reg. 61-62.5, Std. 4, Section III
07	2510	PM	≤ 0.2 lb/T BLS	Method 5	40 CFR 63.862(a)(1)(i)(B)
07	5105	PM	≤ 2.75 lb/T EADTUBP	Method 5	SC Reg. 61-62.5, Std. 4, Section III
07	5105	PM	≤ 0.044 gr/dscf @ 8% O2	Method 5	40 CFR 63.862(a)(1)(i)(A)
07	5105	PM	≤ 0.044 gr/dscf @ 8% O2	Method 5	40 CFR 60.282(a)(1)(i)
07	5105	PM	≤ 0.025 gr/dscf @ 8% O2	Method 5	SC Reg. 61-62.5, Std. 7 (PSD)
07	5105	PM	≤ 237 tpy	Method 5	SC Reg. 61-62.5, Std. 7 (PSD)
07	5110	PM	≤ 1.0 lb/T EADTUBP	Method 5	SC Reg. 61-62.5, Std. 4, Section III
07	5110	PM	≤ 0.2 lb/T BLS	Method 5	40 CFR 63.862(a)(1)(i)(B)
07	5110	PM	≤ 0.20 lb/T BLS	Method 5	40 CFR 60.282(a)(2)
07	5110	PM	≤ 0.20 lb/T BLS	Method 5	SC Reg. 61-62.5, Std. 7 (PSD)
07	2723	PM	≤ 1.0 lb/T EADTUBP	Method 5	SC Reg. 61-62.5, Std. 4, Section III
07	2723	PM	≤ 0.13 gr/dscf @ 10% O2 (oil)	Method 5	40 CFR 60.282(a)(3)
07	2723	PM	≤ 0.067 gr/dscf @ 10% O2 (gas)	Method 5	40 CFR 60.282(a)(3)
07	2723	PM	≤ 0.064 gr/dscf @ 10% O2	Method 5	40 CFR 63.862(a)(1)(i)(C)
07	2723	PM/PM10	< 123 tpy	Method 5	SC Reg. 61-62.1, Sec II, H (SM)
07	2723	PM/PM10	≤ 0.030 gr/dscf @ 10% O2	Method 5	SC Reg. 61-62.5, Std. 7 (PSD)

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
07	2723	PM/PM10	≤ 123 tpy	Method 5	SC Reg. 61-62.5, Std. 7 (PSD)
07	2700 2701	PM	≤ 35.34 lb/hr	NA	SC Reg. 61-62.5, Std. 4
07	2702	PM	≤ 35.34 lb/hr	NA	SC Reg. 61-62.5, Std. 4
07	2703	PM	≤ 25.16 lb/hr	NA	SC Reg. 61-62.5, Std. 4
07	2723	SO2	≤ 82 tpy	Method 6/6C	SC Reg. 61-62.1, Sec II, E (SM)
07	5105	SO2	≤ 50 ppmv (dry basis)	Method 6/6C	SC Reg. 61-62.5, Std. 7 (PSD)
07	5105	SO2	≤ 551 tpy	Method 6/6C	SC Reg. 61-62.5, Std. 7 (PSD)
07	2723	CO	≤ 26 lb/hr	Method 10	SC Reg. 61-62.1, Sec II, E (SM)
07	2723	CO	≤ 114 tpy	Method 10	SC Reg. 61-62.1, Sec II, E (SM)
07	5105	CO	≤ 235 lb/hr	Method 10	SC Reg. 61-62.1, Sec II, E (SM)
07	5105	CO	≤ 1029 tpy	Method 10	SC Reg. 61-62.1, Sec II, E (SM)
07	5105	CO	≤ 1000 ppm	Method 10	SC Reg. 61-62.5, Std. 7 (PSD)
07	2723	NOX	≤ 152 ppmv @ 10% O2	Method 7-7E	SC Reg. 61-62.5, Std. 7 (PSD)
07	5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)	Method 7-7E	SC Reg. 61-62.5, Std. 7 (PSD)
07	5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)	Method 7-7E	SC Reg. 61-62.5, Std. 7.1 (NSR)
07	5105	NOX	≤ 618 tpy	Method 7-7E	SC Reg. 61-62.5, Std. 7 (PSD)
07	5105	NOX	≤ 618 tpy	Method 7-7E	SC Reg. 61-62.5, Std. 7.1 (NSR)
07	2400	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	Method 16	40 CFR 60.282(a)(1)(iii)
07	2500	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	Method 16	SC Reg. 61-62.5, Std. 4, Sec XI
07	5100	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	Method 16	40 CFR 60.282(a)(1)(iii)

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
07	2505	TRS	≤ 20 ppmv @ 8% O2 (dry basis)	Method 16	SC Reg. 61-62.5, Std. 4, Sec XI
07	5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)	Method 16	40 CFR 60.283(a)(2)
07	5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)	Method 16	SC Reg. 61-62.5, Std. 7 (PSD)
07	2510	TRS	≤ 0.033 lb/T BLS	Method 16	SC Reg. 61-62.5, Std. 4, Sec XI
07	5110	TRS	≤ 0.033 lb/T BLS	Method 16	40 CFR 60.282(a)(4)
07	5110	TRS	≤ 0.033 lb/T BLS	Method 16	SC Reg. 61-62.5, Std. 7 (PSD)
07	2723	TRS	≤ 8 ppmv @ 10% O2 (dry basis)	Method 16	40 CFR 60.282(a)(5)
07	2723	TRS	≤ 9 tpy	Method 16	SC Reg. 61-62.1, Sec II, E (SM)
07	2723	VOC	≤ 57 tpy	Method 25A	SC Reg. 61-62.1, Sec II, E (SM)
07	2723	Beryllium	≤ 0.00071 tpy	None	SC Reg. 61-62.1, Sec II, E (SM)
07	2723	Production	465 ton CaO/day	None	SC Reg. 61-62.1, Sec II, E (SM)
08	2550	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 1
08	2605	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 1
08	3705	Opacity	≤ 40%	N/A	SC Reg. 61-62.5, Std. 1
08	2550	PM	≤ 0.6 lb/MMBtu	Method 5	SC Reg. 61-62.5, Std. 1
08	2605	PM	≤ 0.6 lb/MMBtu	Method 5	SC Reg. 61-62.5, Std. 1
08	3705	PM	≤ 0.6 lb/MMBtu	Method 5	SC Reg. 61-62.5, Std. 1
08	2550	SO2	≤ 3.5 lb/MMBtu	Method 6	SC Reg. 61-62.5, Std. 1
08	2605	SO2	≤ 3.5 lb/MMBtu	Method 6	SC Reg. 61-62.5, Std. 1
08	3705	SO2	≤ 3.5 lb/MMBtu	Method 6	SC Reg. 61-62.5, Std. 1

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
08	2605	arsenic cadmium	5 ppm 2 ppm	SC Std. 3, Sec. V(H)	SC Reg. 61-62.5, Std. 3
08	3705	arsenic cadmium	5 ppm 2 ppm	SC Std. 3, Sec. V(H)	SC Reg. 61-62.5, Std. 3
08	2605 and 3705	arsenic cadmium chromium lead nickel hydrogen chloride	≤ 1.7E-3 lb/MMBtu ≤ 1.0E-4 lb/MMBtu ≤ 7.4E-4 lb/MMBtu ≤ 5.0E-3 lb/MMBtu ≤ 6.0E-3 lb/MMBtu ≤ 0.45 lb/MMBtu	SC Std. 3, Sec. V(H)	SC Reg. 61-62.5, Std. 3
08	2605 and 3705	arsenic cadmium chromium lead nickel hydrogen chloride	≤ 1.7E-3 lb/MMBtu ≤ 1.0E-4 lb/MMBtu ≤ 7.4E-4 lb/MMBtu ≤ 5.0E-3 lb/MMBtu ≤ 6.0E-3 lb/MMBtu ≤ 0.45 lb/MMBtu	SC Std. 3, Sec. V(H)	SC Reg. 61-62.5, Std. 3
08	2605	TRS	≥ 1200°F and 0.5 sec.	N/A	40 CFR 60.282(a)(1)(iii)
08	3705	TRS	≥ 1200°F and 0.5 sec.	N/A	40 CFR 60.282(a)(1)(iii)
09	2902	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
09	2903	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
09	2904	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
09	2905	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
09	9800	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
09	9801	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
09	2902	PM	≤ 49.87 lb/hr	N/A	SC Reg. 61-62.5, Std. 4

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
09	2903	PM	≤ 49.87 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
09	2904	PM	≤ 35.43 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
09	2905	PM	≤ 35.43 lb/hr	N/A	SC Reg. 61-62.5, Std. 4
09	2903	NOX hours of operation	< 35.26 tpy 7,000 hours	N/A	SC Reg. 61-62.1, Sec II, E (SM)
09	9801	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	Method 16	40 CFR 60.282(a)(1)(iii)
10	1100	Opacity	≤ 20%	N/A	SC Reg. 61-62.5, Std. 4, Section IX(B)
10	1100	VOC	none	N/A	40 CFR 60.116
11	2900	fugitive PM	minimize airborne emissions	N/A	SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.6
11	1000	fugitive PM	minimize airborne emissions	N/A	SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.6
02 08 08	5210 5240 2400 5100 5260 5260C 2605 3705	SO2	≤ 10.1 lb SO2/ADTUBP 3,364 tpy	Method 6	SC Reg. 61-62.5, Std. 7 (PSD)
02 07 08	5210 5240 2400 5100 5260 5260C 2605 3705	unbleached pulp production	1,825 ADTUBP/day	N/A	SC Reg. 61-62.5, Std. 7 (PSD)

EMISSION LIMITS AND STANDARDS (This section summarizes the emission unit emission limits and standards)					
1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
02 07 08	5210 5220 5230 5240 5250 2400 2500 5100 2605 3705	HAP - closed vent systems	1% LVHC and 4% HVLC venting allowance	N/A	40 CFR 63.443 and 453
02 03 07 08 09	5210 5220 5230 5240 5250 5300 2400 2500 5100 9800 9801 2605 3705	HAP - closed collection systems	vent system negative pressure or vent system 500 ppm (positive pressure) collection system tank openings closed and collection system drains	N/A	40 CFR 63.457
02 07 09	5210 5220 2400 2500 5100 9800 9801	HAP - condensate collection and treatment	collect at least 11.1 lb HAP/ODTP and remove at least 10.2 lb HAP/ODTP	N/A	40 CFR 63.446
07	5105	NOX offset	101.4 tons	N/A	SC Reg. 61-62.5, Std. 7.1 (NSR)

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
1300	SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.6	Y		N/A	N/A
1300	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
1300	SC Reg. 61-62.5, Std. 4, Section VIII	Y		N/A	N/A
5210	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5220	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5230	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5240	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5250	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5210	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
5220	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
5300	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5300	40 CFR 63.450	Y		N/A	N/A
1790	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
1790	40 CFR 68	Y		N/A	N/A
4400	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
4400	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2000	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
2005	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
4100	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
4110	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
4600	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
4605	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
9700	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9701A	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9701B	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9702	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9703	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9704	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2000 and 2005	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
4100 and 4110	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
4600 and 4605	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
9700	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
9701A, 9701B, 9702, 9703, and 9704	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2010	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
4610	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
4120	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
4130	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9900	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2010	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
4120	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
4130	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
4610	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
9900	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
4110	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
4610	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
9900	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
4110	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2010	SC Reg. 61-62.5, Std. 5	Y		N/A	N/A
2010 4610	40 CFR 63.3370	Y		N/A	N/A
2402	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
2500	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
2400	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
5100	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2515	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
2520	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
5115	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
5120	SC Reg. 61-62.5, Std. 4, Section IX(A)	Y		N/A	N/A
2700	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2701	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2702	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2703	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2505	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
2723	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
2510	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
5110	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
5105	40 CFR 60.282(a)(1)(ii)	Y		N/A	N/A
2505	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
2505	40 CFR 63.862(a)(1)(i)(A)	Y		N/A	N/A
2510	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
2510	40 CFR 63.862(a)(1)(i)(B)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
5105	40 CFR 63.862(a)(1)(i)(A)	Y		N/A	N/A
5105	40 CFR 60.282(a)(1)(i)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5110	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
5110	40 CFR 63.862(a)(1)(i)(B)	Y		N/A	N/A
5110	40 CFR 60.282(a)(2)	Y		N/A	N/A
5110	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2723	SC Reg. 61-62.5, Std. 4, Section III	Y		N/A	N/A
2723	40 CFR 60.282(a)(3)	Y		N/A	N/A
2723	40 CFR 60.282(a)(3)	Y		N/A	N/A
2723	40 CFR 63.862(a)(1)(i)(C)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, H (SM)	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
2723	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2723	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2700 2701	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2702	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2703	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
5105	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
5105	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2723	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7.1 (NSR)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7.1 (NSR)	Y		N/A	N/A
2400	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
2500	SC Reg. 61-62.5, Std. 4, Sec XI	Y		N/A	N/A
5100	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
2505	SC Reg. 61-62.5, Std. 4, Sec XI	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
5105	40 CFR 60.283(a)(2)	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2510	SC Reg. 61-62.5, Std. 4, Sec XI	Y		N/A	N/A
5110	40 CFR 60.282(a)(4)	Y		N/A	N/A
5110	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
2723	40 CFR 60.282(a)(5)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
2723	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
2550	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
2605	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
3705	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
2550	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
2605	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
3705	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
2550	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
2605	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
3705	SC Reg. 61-62.5, Std. 1	Y		N/A	N/A
2605	SC Reg. 61-62.5, Std. 3	Y		N/A	N/A
3705	SC Reg. 61-62.5, Std. 3	Y		N/A	N/A
2605 and 3705	SC Reg. 61-62.5, Std. 3	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	**6. Applicable Regulation (Regulation Citation/Condition)**	**7. In Compliance (Y/N)**	**8. Compliance Statement***	**9. Compliance Date**	**10. First Submittal**
2605 and 3705	SC Reg. 61-62.5, Std. 3	Y		N/A	N/A
2605	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
3705	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
2902	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2903	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2904	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2905	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9800	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
9801	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
2902	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2903	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2904	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2905	SC Reg. 61-62.5, Std. 4	Y		N/A	N/A
2903	SC Reg. 61-62.1, Sec II, E (SM)	Y		N/A	N/A
9801	40 CFR 60.282(a)(1)(iii)	Y		N/A	N/A
1100	SC Reg. 61-62.5, Std. 4, Section IX(B)	Y		N/A	N/A
1100	40 CFR 60.116	Y		N/A	N/A
2900	SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.6	Y		N/A	N/A
1000	SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.6	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	**6. Applicable Regulation (Regulation Citation/Condition)**	**7. In Compliance (Y/N)**	**8. Compliance Statement***	**9. Compliance Date**	**10. First Submittal**
5210 5240 2400 5100 5260 5260C 2605 3705	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5210 5240 2400 5100 5260 5260C 2605 3705	SC Reg. 61-62.5, Std. 7 (PSD)	Y		N/A	N/A
5210 5220 5230 5240 5250 2400 2500 5100 2605 3705	40 CFR 63.443 and 453	Y		N/A	N/A

COMPLIANCE AND PERMIT REQUIREMENTS (This section summarizes the emission unit compliance requirements)					
2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement*	9. Compliance Date	10. First Submittal
5210 5220 5230 5240 5250 5300 2400 2500 5100 9800 9801 2605 3705	40 CFR 63.457	Y		N/A	N/A
5210 5220 2400 2500 5100 9800 9801	40 CFR 63.446	Y		N/A	N/A
5105	SC Reg. 61-62.5, Std. 7.1 (NSR)	Y		N/A	N/A

*By initialing here, the Responsible Official certifies that this emission unit is in compliance with current applicable requirements and that during the permit term the source will continue to comply with such requirements. Further, for applicable requirements that will become effective during the permit term, that the source will meet such requirements on a timely basis, unless a more detailed schedule is expressly required by the applicable requirement.

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	11. Pollutant/Parameter	4. Limit	12. Required Monitoring	13. Monitoring Frequency	14. Reporting Frequency
1300	Fugitive PM	minimize airborne emissions	VE	annual	Semiannual
1300	Opacity	≤ 20%	VE	annual	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
1300	PM	≤ 76.13 lb/hr	VE	annual	Semiannual
5210	Opacity	≤ 20%	N/A	N/A	N/A
5220	Opacity	≤ 20%	N/A	N/A	N/A
5230	Opacity	≤ 20%	N/A	N/A	N/A
5240	Opacity	≤ 20%	N/A	N/A	N/A
5250	Opacity	≤ 20%	N/A	N/A	N/A
5210	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	scrubber liquid flow scrubber liquid pH	daily	Semiannual
5220	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	scrubber liquid flow scrubber liquid pH	daily	Semiannual
5300	Opacity	≤ 20%	scrubber liquid flow scrubber liquid pH fan operation	15-minutes	Semiannual
5300	chlorinated HAP	≥ 99% reduction or ≤ 10 ppmv	scrubber liquid flow scrubber liquid pH fan operation	15-minutes	Semiannual
1790	Opacity	≤ 20%	scrubber liquid flow scrubber liquid pH scrubber pressure drop	daily	Semiannual
1790	ClO2	RMP requirements	update/resubmit plan as required	N/A	N/A
4400	Opacity	≤ 20%	None	N/A	N/A
4400	Production	456,300 ADTP/day	pulp production	monthly	N/A
2000	Opacity	≤ 40%	VE	Annual	Semiannual
2005	Opacity	≤ 40%	VE	Annual	Semiannual
4100	Opacity	≤ 20%	VE	Annual	Semiannual
4110	Opacity	≤ 20%	VE	Semiannual	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
4600	Opacity	≤ 20%	VE	Annual	Semiannual
4605	Opacity	≤ 20%	VE	Annual	Semiannual
9700	Opacity	≤ 20%	VE	Daily (when unloading)	Semiannual
9701A	Opacity	≤ 20%	VE	Annual	Semiannual
9701B	Opacity	≤ 20%	VE	Annual	Semiannual
9702	Opacity	≤ 20%	VE	Annual	Semiannual
9703	Opacity	≤ 20%	VE	Annual	Semiannual
9704	Opacity	≤ 20%	VE	Annual	Semiannual
2000 and 2005	PM	≤ 30.12 lb/hr	VE	Annual	Semiannual
4100 and 4110	PM	≤ 43.34 lb/hr	VE	Annual	Semiannual
4600 and 4605	PM	≤ 39.91 lb/hr	VE	Annual	Semiannual
9700	PM	≤ 41.57 lb/hr	VE	Daily (when unloading)	Semiannual
9701A, 9701B, 9702, 9703, and 9704	PM	≤ 2.68 lb/hr	VE	Annual	Semiannual
2010	Opacity	≤ 40%	VE	Annual	Semiannual
4610	Opacity	≤ 20%	VE	Annual	Semiannual
4120	Opacity	≤ 20%	VE kerosene usage	Semiannual	Semiannual
4130	Opacity	≤ 20%	VE kerosene usage	Semiannual	Semiannual
9900	Opacity	≤ 20%	VE	Annual	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
2010	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	fuel usage limited to natural gas (primary) with propane (backup) and kerosene (backup)	annual	N/A
4120	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	fuel usage limited to natural gas (primary) with propane (backup) and kerosene (backup)	monthly	Semiannual
4130	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	fuel usage limited to natural gas (primary) with propane (backup) and kerosene (backup)	monthly	Semiannual
4610	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	fuel usage limited to natural gas (unlimited) with propane (475,000 gallons) and kerosene (3,000,000 gallons)	monthly	Semiannual
9900	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	fuel usage limited to natural gas (631,540,000 scf) with propane (1,428,571 gallons)	monthly	Semiannual
4110	PM	≤ 0.0164 lb/MMBtu	fuel usage limited to natural gas (primary) with propane (backup) and kerosene (backup)	monthly	Semiannual
4610	NOX	≤ 40 tpy	fuel usage limited to natural gas (unlimited) with propane (475,000 gallons) and kerosene (3,000,000 gallons)	monthly	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
9900	NOX	≤ 40 tpy	fuel usage limited to natural gas (631,540,000 scf) with propane (1,428,571 gallons)	monthly	Semiannual
4110	NOX	Low NOX burner	N/A	N/A	N/A
2010	VOC	2.9 lb/gallon	application method type of coating VOC content	per coating	N/A
2010 4610	HAP	≤ 0.04 kg/kg coating applied	material usage organic HAP usage volatile matter usage coating solids usage	monthly	Semiannual
2402	Opacity	≤ 40%	None	N/A	N/A
2500	Opacity	≤ 40%	None	N/A	N/A
2400	Opacity	≤ 20%	None	N/A	N/A
5100	Opacity	≤ 20%	None	N/A	N/A
2515	Opacity	≤ 40%	VE	Annual	Semiannual
2520	Opacity	≤ 40%	VE	Annual	Semiannual
5115	Opacity	≤ 40%	VE	Annual	Semiannual
5120	Opacity	≤ 40%	VE	Annual	Semiannual
2700	Opacity	≤ 20%	VE	Annual	Semiannual
2701	Opacity	≤ 20%	Scrubber liquid flow	Once per shift	Semiannual
2702	Opacity	≤ 20%	VE	Annual	Semiannual
2703	Opacity	≤ 20%	VE	Daily	Semiannual
2505	Opacity	≤ 40%	COMS	10-seconds	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
2723	Opacity	≤ 20%	COMS	10-seconds	Semiannual
2510	Opacity	≤ 20%	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5110	Opacity	≤ 20%	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5105	Opacity	≤ 40%	COMS	continuous	Semiannual
5105	Opacity	≤ 35%	COMS	continuous	Semiannual
2505	PM	≤ 2.75 lb/T EADTUBP	COMS	10-seconds	Quarterly
2505	PM	0.044 gr/dscf @ 8% O2	COMS	10-seconds	Quarterly
2510	PM	≤ 2.75 lb/T EADTUBP	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
2510	PM	≤ 0.2 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5105	PM	≤ 2.75 lb/T EADTUBP	COMS	10-seconds	Quarterly
5105	PM	≤ 0.044 gr/dscf @ 8% O2	COMS	10-seconds	Quarterly
5105	PM	≤ 0.044 gr/dscf @ 8% O2	COMS	10-seconds	Quarterly
5105	PM	≤ 0.025 gr/dscf @ 8% O2	COMS	10-seconds	Quarterly
5105	PM	≤ 237 tpy	COMS	10-seconds	Quarterly
5110	PM	≤ 1.0 lb/T EADTUBP	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5110	PM	≤ 0.2 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
5110	PM	≤ 0.20 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5110	PM	≤ 0.20 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
2723	PM	≤ 1.0 lb/T EADTUBP	COMS	10-seconds	Semiannual
2723	PM	≤ 0.13 gr/dscf @ 10% O2 (oil)	COMS	10-seconds	Semiannual
2723	PM	≤ 0.067 gr/dscf @ 10% O2 (gas)	COMS	10-seconds	Semiannual
2723	PM	≤ 0.064 gr/dscf @ 10% O2	COMS	10-seconds	Semiannual
2723	PM/PM10	< 123 tpy	COMS	10-seconds	Semiannual
2723	PM/PM10	≤ 0.030 gr/dscf @ 10% O2	COMS	10-seconds	Semiannual
2723	PM/PM10	≤ 123 tpy	COMS	10-seconds	Semiannual
2700 2701	PM	≤ 35.34 lb/hr	Scrubber liquid flow	Once per shift	Semiannual
2702	PM	≤ 35.34 lb/hr	VE	daily (when unloading)	Semiannual
2703	PM	≤ 25.16 lb/hr	VE	daily (when unloading)	Semiannual
2723	SO2	≤ 82 tpy	fuel usage limited to No. 6 oil (2.5% sulfur), natural gas, and propane	monthly	None
5105	SO2	≤ 50 ppmv (dry basis)	fuel usage limited to black liquor solids, No. 6 oil (2.5% sulfur), and natural gas	monthly	None

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
5105	SO2	≤ 551 tpy	fuel usage limited to black liquor solids, No. 6 oil (2.5% sulfur), and natural gas	monthly	None
2723	CO	≤ 26 lb/hr	fuel usage limited to No. 6 oil (2.5% sulfur), natural gas, and propane	monthly	None
2723	CO	≤ 114 tpy	fuel usage limited to No. 6 oil (2.5% sulfur), natural gas, and propane	monthly	None
5105	CO	≤ 235 lb/hr	fuel usage limited to black liquor solids, No. 6 oil (2.5% sulfur), and natural gas	monthly	None
5105	CO	≤ 1029 tpy	fuel usage limited to black liquor solids, No. 6 oil (2.5% sulfur), and natural gas	monthly	None
5105	CO	≤ 1000 ppm	fuel usage limited to black liquor solids, No. 6 oil (2.5% sulfur), and natural gas	monthly	None
2723	NOX	≤ 152 ppmv @ 10% O2	None	N/A	N/A
5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)	CEMS	15-minute	Semiannual
5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)	CEMS	15-minute	Semiannual
5105	NOX	≤ 618 tpy	CEMS	15-minute	Semiannual
5105	NOX	≤ 618 tpy	CEMS	15-minute	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
2400	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	flame failure system bypass vents	continuous	Semiannual
2500	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	flame failure system bypass vents	continuous	Semiannual
5100	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	flame failure system bypass vents	continuous	Semiannual
2505	TRS	≤ 20 ppmv @ 8% O2 (dry basis)	CEMS	continuous	Semiannual
5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)	CEMS	continuous	Semiannual
5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)	CEMS	continuous	Semiannual
2510	TRS	≤ 0.033 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5110	TRS	≤ 0.033 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
5110	TRS	≤ 0.033 lb/T BLS	Scrubber liquid flow and scrubber pressure drop	15-minute	Semiannual
2723	TRS	≤ 8 ppmv @ 10% O2 (dry basis)	CEMS	continuous	Semiannual
2723	TRS	≤ 9 tpy	CEMS	continuous	Semiannual
2723	VOC	≤ 57 tpy	None	N/A	N/A
2723	Beryllium	≤ 0.00071 tpy	None	N/A	N/A
2723	Production	465 ton CaO/day	Production records	monthly	Semiannual
2550	Opacity	≤ 40%	VE	annual (gas) daily (No. 6 oil)	N/A
2605	Opacity	≤ 40%	COMS	10-seconds	Quarterly
3705	Opacity	≤ 40%	COMS	10-seconds	Quarterly

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
2550	PM	≤ 0.6 lb/MMBtu	VE	annual (gas) daily (No. 6 oil)	N/A
2605	PM	≤ 0.6 lb/MMBtu	COMS	10-seconds	Semiannual
3705	PM	≤ 0.6 lb/MMBtu	COMS	10-seconds	Semiannual
2550	SO2	≤ 3.5 lb/MMBtu	fuel usage limited to No. 6 oil (2.5% sulfur) and natural gas	monthly	N/A
2605	SO2	≤ 3.5 lb/MMBtu	fuel usage limited to biomass (bark, wood, etc.), No. 6 oil (2.5% sulfur), natural gas, tire derived fuel, NCG gases (LVHC, HVLC, and SOG), cares, wastepaper, and specification used oil	monthly	N/A
3705	SO2	≤ 3.5 lb/MMBtu	fuel usage limited to No. 6 oil (2.5% sulfur), natural gas, and propane	monthly	N/A
2605	arsenic cadmium	5 ppm 2 ppm	hazardous or non-hazardous heat value total halogen flash point percent nitrogen percent sulfur	annual (on-site) each batch (off-site)	annual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
3705	arsenic cadmium	5 ppm 2 ppm	hazardous or non-hazardous heat value total halogen flash point percent nitrogen percent sulfur	annual (on-site) each batch (off-site)	annual
2605 and 3705	arsenic cadmium chromium lead nickel hydrogen chloride	≤ 1.7E-3 lb/MMBtu ≤ 1.0E-4 lb/MMBtu ≤ 7.4E-4 lb/MMBtu ≤ 5.0E-3 lb/MMBtu ≤ 6.0E-3 lb/MMBtu ≤ 0.45 lb/MMBtu	hazardous or non-hazardous heat value total halogen percent nitrogen percent sulfur identify Std. 8 compounds	new TDF supplier	as needed
2605 and 3705	TDF feed rate	1.5 tons/hr	TDF feed rate	hourly	Semiannual
2605	TRS	≥ 1200°F and 0.5 sec.	flame failure system bypass vents	continuous	Semiannual
3705	TRS	≥ 1200°F and 0.5 sec.	flame failure system bypass vents	continuous	Semiannual
2902	Opacity	≤ 20%	VE	daily (when operating)	N/A
2903	Opacity	≤ 20%	VE	daily (when operating)	N/A
2904	Opacity	≤ 20%	VE	daily (when operating)	N/A
2905	Opacity	≤ 20%	VE	daily (when operating)	N/A
9800	Opacity	≤ 20%	None	N/A	N/A
9801	Opacity	≤ 20%	None	N/A	N/A

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
2902	PM	≤ 49.87 lb/hr	VE	daily (when operating)	N/A
2903	PM	≤ 49.87 lb/hr	VE	daily (when operating)	N/A
2904	PM	≤ 35.43 lb/hr	VE	daily (when operating)	N/A
2905	PM	≤ 35.43 lb/hr	VE	daily (when operating)	N/A
2903	NOX hours of operation	< 35.26 tpy 7,000 hours	hours of operation	monthly	Semiannual
9801	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	flame failure system bypass vents	continuous	Semiannual
1100	Opacity	≤ 20%	None	N/A	N/A
1100	VOC	none	vapor pressure	change of liquid stored	as needed
2900	fugitive PM	minimize airborne emissions	VE	annual	Semiannual
1000	fugitive PM	minimize airborne emissions	VE	annual	Semiannual
5210 5240 2400 5100 5260 5260C 2605 3705	SO2	≤ 10.1 lb SO2/ADTUBP 3,364 tpy	scrubber liquid flow scrubber liquid pH bark firing kraft pulp production bark/kraft ratio SO2 emissions	daily daily daily daily daily daily/monthly/12-month rolling sum	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
5210 5240 2400 5100 5260 5260C 2605 3705	unbleached pulp production	1,825 ADTUBP/day	Production records	daily	Semiannual
5210 5220 5230 5240 5250 2400 2500 5100 2605 3705	HAP - closed vent systems	1% LVHC and 4% HVLC venting allowance	bypass lines	continuous	Semiannual
5210 5220 5230 5240 5250 5300 2400 2500 5100 9800 9801 2605 3705	HAP - closed collection systems	vent system negative pressure or vent system 500 ppm (positive pressure) collection system tank openings closed and collection system drains	visual inspection leak testing	monthly annual	Semiannual

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I (This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).					
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**12. Required Monitoring**	**13. Monitoring Frequency**	**14. Reporting Frequency**
5210 5220 2400 2500 5100 9800 9801	HAP - condensate collection and treatment	collect at least 11.1 lb HAP/ODTP and remove at least 10.2 lb HAP/ODTP	condensate feed rate steam feed rate condensate feed temperature effective steam ratio pulp production mass HAP collected mass HAP removed	15-minute 15-minute 15-minute daily daily daily daily	Semiannual
5105	NOX offset	101.4 tons	N/A	N/A	N/A

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	**3. or 11. Pollutant/Standard or Pollutant/Parameter**	**4. Limit**	**15. Recordkeeping Frequency**	**16. Averaging Time**	**17.Stack Test**	
					Y/N	**Frequency**
1300	Fugitive PM	minimize airborne emissions	annual	N/A	N	
1300	Opacity	≤ 20%	annual	N/A	N	
1300	PM	≤ 76.13 lb/hr	annual	N/A	N	
5210	Opacity	≤ 20%	N/A	N/A	N	
5220	Opacity	≤ 20%	N/A	N/A	N	
5230	Opacity	≤ 20%	N/A	N/A	N	
5240	Opacity	≤ 20%	N/A	N/A	N	
5250	Opacity	≤ 20%	N/A	N/A	N	
5210	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	daily	N/A	N	
5220	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	daily	N/A	N	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
5300	Opacity	≤ 20%	15-minutes	3-hour	N	
5300	chlorinated HAP	≥ 99% reduction or ≤ 10 ppmv	15-minutes	3-hour	N	
1790	Opacity	≤ 20%	daily	N/A	N	
1790	ClO2	RMP requirements	N/A	N/A	N	
4400	Opacity	≤ 20%	N/A	N/A	N	
4400	Production	456,300 ADTP/day	monthly	12-month rolling sum	N	
2000	Opacity	≤ 40%	Annual	N/A	N	
2005	Opacity	≤ 40%	Annual	N/A	N	
4100	Opacity	≤ 20%	Annual	N/A	N	
4110	Opacity	≤ 20%	Semiannual	N/A	N	
4600	Opacity	≤ 20%	Annual	N/A	N	
4605	Opacity	≤ 20%	Annual	N/A	N	
9700	Opacity	≤ 20%	Daily (when unloading)	N/A	N	
9701A	Opacity	≤ 20%	Annual	N/A	N	
9701B	Opacity	≤ 20%	Annual	N/A	N	
9702	Opacity	≤ 20%	Annual	N/A	N	
9703	Opacity	≤ 20%	Annual	N/A	N	
9704	Opacity	≤ 20%	Annual	N/A	N	
2000 and 2005	PM	≤ 30.12 lb/hr	Annual	N/A	N	
4100 and 4110	PM	≤ 43.34 lb/hr	Annual	N/A	N	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
4600 and 4605	PM	≤ 39.91 lb/hr	Annual	N/A	N	
9700	PM	≤ 41.57 lb/hr	Daily (when unloading)	N/A	N	
9701A, 9701B, 9702, 9703, and 9704	PM	≤ 2.68 lb/hr	Annual	N/A	N	
2010	Opacity	≤ 40%	Annual	N/A	N	
4610	Opacity	≤ 20%	Annual	N/A	N	
4120	Opacity	≤ 20%	Semiannual	N/A	N	
4130	Opacity	≤ 20%	Semiannual	N/A	N	
9900	Opacity	≤ 20%	Annual	N/A	N	
2010	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	annual	N/A	N	
4120	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	monthly	12-month rolling sum	N	
4130	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	monthly	12-month rolling sum	N	
4610	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	monthly	12-month rolling sum	N	
9900	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu	monthly	12-month rolling sum	N	
4110	PM	≤ 0.0164 lb/MMBtu	monthly	annual	N	
4610	NOX	≤ 40 tpy	monthly	12-month rolling sum	N	
9900	NOX	≤ 40 tpy	monthly	12-month rolling sum	N	
4110	NOX	Low NOX burner	N/A	N/A	N	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
2010	VOC	2.9 lb/gallon	per coating	N/A	N	
2010 4610	HAP	≤ 0.04 kg/kg coating applied	monthly	N/A	N	
2402	Opacity	≤ 40%	N/A	N/A	N	
2500	Opacity	≤ 40%	N/A	N/A	N	
2400	Opacity	≤ 20%	N/A	N/A	N	
5100	Opacity	≤ 20%	N/A	N/A	N	
2515	Opacity	≤ 40%	Annual	N/A	N	
2520	Opacity	≤ 40%	Annual	N/A	N	
5115	Opacity	≤ 40%	Annual	N/A	N	
5120	Opacity	≤ 40%	Annual	N/A	N	
2700	Opacity	≤ 20%	Annual	N/A	N	
2701	Opacity	≤ 20%	Once per shift	N/A	N	
2702	Opacity	≤ 20%	Annual	N/A	N	
2703	Opacity	≤ 20%	Daily	N/A	N	
2505	Opacity	≤ 40%	6-minute	6-minute	N	
2723	Opacity	≤ 20%	6-minute	6-minute	N	
2510	Opacity	≤ 20%	15-minute	3-hour	N	
5110	Opacity	≤ 20%	15-minute	3-hour	N	
5105	Opacity	≤ 40%	6-minute	6-minute	N	
5105	Opacity	≤ 35%	6-minute	6-minute	N	
2505	PM	≤ 2.75 lb/T EADTUBP	6-minute	6-minute	Y	every two years

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
2505	PM	0.044 gr/dscf @ 8% O2	6-minute	6-minute	Y	every two years
2510	PM	≤ 2.75 lb/T EADTUBP	15-minute	3-hour	Y	every four years
2510	PM	≤ 0.2 lb/T BLS	15-minute	3-hour	Y	every four years
5105	PM	≤ 2.75 lb/T EADTUBP	6-minute	6-minute	Y	every two years
5105	PM	≤ 0.044 gr/dscf @ 8% O2	6-minute	6-minute	Y	every two years
5105	PM	≤ 0.044 gr/dscf @ 8% O2	6-minute	6-minute	Y	every two years
5105	PM	≤ 0.025 gr/dscf @ 8% O2	6-minute	6-minute	Y	every two years
5105	PM	≤ 237 tpy	6-minute	6-minute	Y	every two years
5110	PM	≤ 1.0 lb/T EADTUBP	15-minute	3-hour	Y	every four years
5110	PM	≤ 0.2 lb/T BLS	15-minute	3-hour	Y	every four years
5110	PM	≤ 0.20 lb/T BLS	15-minute	3-hour	Y	every four years
5110	PM	≤ 0.20 lb/T BLS	15-minute	3-hour	Y	every four years
2723	PM	≤ 1.0 lb/T EADTUBP	6-minute	6-minute	Y	every two years
2723	PM	≤ 0.13 gr/dscf @ 10% O2 (oil)	6-minute	6-minute	Y	every two years
2723	PM	≤ 0.067 gr/dscf @ 10% O2 (gas)	6-minute	6-minute	Y	every two years
2723	PM	≤ 0.064 gr/dscf @ 10% O2	6-minute	6-minute	Y	every two years
2723	PM/PM10	< 123 tpy	6-minute	6-minute	Y	every two years
2723	PM/PM10	≤ 0.030 gr/dscf @ 10% O2	6-minute	6-minute	Y	every two years
2723	PM/PM10	≤ 123 tpy	6-minute	6-minute	Y	every two years
2700 2701	PM	≤ 35.34 lb/hr	Once per shift	N/A	N	N/A
2702	PM	≤ 35.34 lb/hr	daily (when unloading)	N/A	N	N/A

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
2703	PM	≤ 25.16 lb/hr	daily (when unloading)	N/A	N	N/A
2723	SO2	≤ 82 tpy	monthly	annual	Y	every four years
5105	SO2	≤ 50 ppmv (dry basis)	monthly	annual	Y	every four years
5105	SO2	≤ 551 tpy	monthly	annual	Y	every four years
2723	CO	≤ 26 lb/hr	monthly	annual	Y	every four years
2723	CO	≤ 114 tpy	monthly	annual	Y	every four years
5105	CO	≤ 235 lb/hr	monthly	annual	Y	every four years
5105	CO	≤ 1029 tpy	monthly	annual	Y	every four years
5105	CO	≤ 1000 ppm	monthly	annual	Y	every four years
2723	NOX	≤ 152 ppmv @ 10% O2	N/A	N/A	Y	every two years
5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)	daily average	10-day	Y	every two years
5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)	daily average	10-day	Y	every two years
5105	NOX	≤ 618 tpy	daily average	10-day	Y	every two years
5105	NOX	≤ 618 tpy	daily average	10-day	Y	every two years
2400	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	continuous	N/A	N	
2500	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	continuous	N/A	N	
5100	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	continuous	N/A	N	
2505	TRS	≤ 20 ppmv @ 8% O2 (dry basis)	continuous	12-hour	Y	every two years
5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)	continuous	12-hour	Y	every two years

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)	continuous	12-hour	Y	every two years
2510	TRS	≤ 0.033 lb/T BLS	15-minute	3-hour	N	
5110	TRS	≤ 0.033 lb/T BLS	15-minute	3-hour	N	
5110	TRS	≤ 0.033 lb/T BLS	15-minute	3-hour	N	
2723	TRS	≤ 8 ppmv @ 10% O2 (dry basis)	continuous	12-hour	N	
2723	TRS	≤ 9 tpy	continuous	12-hour	N	
2723	VOC	≤ 57 tpy	N/A	N/A	N	
2723	Beryllium	≤ 0.00071 tpy	N/A	N/A	N	
2723	Production	465 ton CaO/day	monthly	12-month rolling sum	N	
2550	Opacity	≤ 40%	annual (gas) daily (No. 6 oil)	N/A	N	
2605	Opacity	≤ 40%	6-minute	6-minute	N	
3705	Opacity	≤ 40%	6-minute	6-minute	N	
2550	PM	≤ 0.6 lb/MMBtu	annual (gas) daily (No. 6 oil)	N/A	Y	every two years
2605	PM	≤ 0.6 lb/MMBtu	6-minute	6-minute	Y	every two years
3705	PM	≤ 0.6 lb/MMBtu	6-minute	6-minute	Y	every two years
2550	SO2	≤ 3.5 lb/MMBtu	monthly	N/A	N	
2605	SO2	≤ 3.5 lb/MMBtu	monthly	N/A	N	
3705	SO2	≤ 3.5 lb/MMBtu	monthly	N/A	N	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
2605	arsenic cadmium	5 ppm 2 ppm	annual (on-site) each batch (off-site)	N/A	N	
3705	arsenic cadmium	5 ppm 2 ppm	annual (on-site) each batch (off-site)	N/A	N	
2605 and 3705	arsenic cadmium chromium lead nickel hydrogen chloride	≤ 1.7E-3 lb/MMBtu ≤ 1.0E-4 lb/MMBtu ≤ 7.4E-4 lb/MMBtu ≤ 5.0E-3 lb/MMBtu ≤ 6.0E-3 lb/MMBtu ≤ 0.45 lb/MMBtu	new TDF supplier	N/A	N	
2605 and 3705	TDF feed rate	1.5 tons/hr	hourly	N/A	Y	increased feed rate
2605	TRS	≥ 1200°F and 0.5 sec.	continuous	N/A	N	
3705	TRS	≥ 1200°F and 0.5 sec.	continuous	N/A	N	
2902	Opacity	≤ 20%	daily (when operating)	Semiannual	N	
2903	Opacity	≤ 20%	daily (when operating)	Semiannual	N	
2904	Opacity	≤ 20%	daily (when operating)	Semiannual	N	
2905	Opacity	≤ 20%	daily (when operating)	Semiannual	N	
9800	Opacity	≤ 20%	N/A	N/A	N	
9801	Opacity	≤ 20%	N/A	N/A	N	
2902	PM	≤ 49.87 lb/hr	daily (when operating)	Semiannual	N	
2903	PM	≤ 49.87 lb/hr	daily (when operating)	Semiannual	N	
2904	PM	≤ 35.43 lb/hr	daily (when operating)	Semiannual	N	
2905	PM	≤ 35.43 lb/hr	daily (when operating)	Semiannual	N	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
2903	NOX hours of operation	< 35.26 tpy 7,000 hours	monthly	annual	N	
9801	TRS	≤ 5 ppmv @ 10% O2 (dry basis)	continuous	N/A	N	
1100	Opacity	≤ 20%	N/A	N/A	N	
1100	VOC	none	change of liquid stored	N/A	N	
2900	fugitive PM	minimize airborne emissions	annual	N/A	N	
1000	fugitive PM	minimize airborne emissions	annual	N/A	N	
5210 5240 2400 5100 5260 5260C 2605 3705	SO2	≤ 10.1 lb SO2/ADTUBP 3,364 tpy	daily daily daily daily daily daily/monthly/12-month rolling sum	N/A N/A N/A N/A 30-day rolling avg 12-month rolling sum	Y	one-time (completed)
5210 5240 2400 5100 5260 5260C 2605 3705	unbleached pulp production	1,825 ADTUBP/day	daily	monthly average and 12-month rolling sum		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II (This section summarizes the monitoring and reporting requirements)						
2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
5210 5220 5230 5240 5250 2400 2500 5100 2605 3705	HAP - closed vent systems	1% LVHC and 4% HVLC venting allowance	continuous	N/A	N	
5210 5220 5230 5240 5250 5300 2400 2500 5100 9800 9801 2605 3705	HAP - closed collection systems	vent system negative pressure or vent system 500 ppm (positive pressure) collection system tank openings closed and collection system drains	monthly annual	N/A	N	
5210 5220 2400 2500 5100 9800 9801	HAP - condensate collection and treatment	collect at least 11.1 lb HAP/ODTP and remove at least 10.2 lb HAP/ODTP	15-minute 15-minute 15-minute daily daily daily daily	N/A N/A N/A daily daily 15-day rolling avg 15-day rolling avg	N	
5105	NOX offset	101.4 tons	N/A	N/A	N	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
1300	Fugitive PM	minimize airborne emissions		
1300	Opacity	≤ 20%		
1300	PM	≤ 76.13 lb/hr		
5210	Opacity	≤ 20%	no potential visible emissions	
5220	Opacity	≤ 20%	no potential visible emissions	
5230	Opacity	≤ 20%	no potential visible emissions	
5240	Opacity	≤ 20%	no potential visible emissions	
5250	Opacity	≤ 20%	no potential visible emissions	
5210	TRS	≤ 5 ppmv @ 10% O2 (dry basis)		
5220	TRS	≤ 5 ppmv @ 10% O2 (dry basis)		
5300	Opacity	≤ 20%		
5300	chlorinated HAP	≥ 99% reduction or ≤ 10 ppmv		
1790	Opacity	≤ 20%		
1790	ClO2	RMP requirements		
4400	Opacity	≤ 20%	no potential visible emissions	
4400	Production	456,300 ADTP/day		
2000	Opacity	≤ 40%		
2005	Opacity	≤ 40%		
4100	Opacity	≤ 20%		
4110	Opacity	≤ 20%		
4600	Opacity	≤ 20%		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
4605	Opacity	≤ 20%		
9700	Opacity	≤ 20%		
9701A	Opacity	≤ 20%		
9701B	Opacity	≤ 20%		
9702	Opacity	≤ 20%		
9703	Opacity	≤ 20%		
9704	Opacity	≤ 20%		
2000 and 2005	PM	≤ 30.12 lb/hr		
4100 and 4110	PM	≤ 43.34 lb/hr		
4600 and 4605	PM	≤ 39.91 lb/hr		
9700	PM	≤ 41.57 lb/hr		
9701A, 9701B, 9702, 9703, and 9704	PM	≤ 2.68 lb/hr		
2010	Opacity	≤ 40%		
4610	Opacity	≤ 20%		
4120	Opacity	≤ 20%		
4130	Opacity	≤ 20%		
9900	Opacity	≤ 20%		
2010	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu		
4120	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu		
4130	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
4610	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu		
9900	PM SO2	≤ 0.6 lb/MMBtu ≤ 3.5 lb/MMBtu		
4110	PM	≤ 0.0164 lb/MMBtu		
4610	NOX	≤ 40 tpy		
9900	NOX	≤ 40 tpy		
4110	NOX	Low NOX burner		
2010	VOC	2.9 lb/gallon		
2010 4610	HAP	≤ 0.04 kg/kg coating applied		
2402	Opacity	≤ 40%	Low probability of visible emissions	
2500	Opacity	≤ 40%	Low probability of visible emissions	
2400	Opacity	≤ 20%	Low probability of visible emissions	
5100	Opacity	≤ 20%	Low probability of visible emissions	
2515	Opacity	≤ 40%		
2520	Opacity	≤ 40%		
5115	Opacity	≤ 40%		
5120	Opacity	≤ 40%		
2700	Opacity	≤ 20%		
2701	Opacity	≤ 20%		
2702	Opacity	≤ 20%		
2703	Opacity	≤ 20%		
2505	Opacity	≤ 40%		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
2723	Opacity	≤ 20%		
2510	Opacity	≤ 20%		
5110	Opacity	≤ 20%		
5105	Opacity	≤ 40%		
5105	Opacity	≤ 35%		
2505	PM	≤ 2.75 lb/T EADTUBP		
2505	PM	0.044 gr/dscf @ 8% O2		
2510	PM	≤ 2.75 lb/T EADTUBP		
2510	PM	≤ 0.2 lb/T BLS		
5105	PM	≤ 2.75 lb/T EADTUBP		
5105	PM	≤ 0.044 gr/dscf @ 8% O2		
5105	PM	≤ 0.044 gr/dscf @ 8% O2		
5105	PM	≤ 0.025 gr/dscf @ 8% O2		
5105	PM	≤ 237 tpy		
5110	PM	≤ 1.0 lb/T EADTUBP		
5110	PM	≤ 0.2 lb/T BLS		
5110	PM	≤ 0.20 lb/T BLS		
5110	PM	≤ 0.20 lb/T BLS		
2723	PM	≤ 1.0 lb/T EADTUBP		
2723	PM	≤ 0.13 gr/dscf @ 10% O2 (oil)		
2723	PM	≤ 0.067 gr/dscf @ 10% O2 (gas)		
2723	PM	≤ 0.064 gr/dscf @ 10% O2		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
2723	PM/PM10	< 123 tpy		
2723	PM/PM10	≤ 0.030 gr/dscf @ 10% O2		
2723	PM/PM10	≤ 123 tpy		
2700 2701	PM	≤ 35.34 lb/hr		
2702	PM	≤ 35.34 lb/hr		
2703	PM	≤ 25.16 lb/hr		
2723	SO2	≤ 82 tpy		
5105	SO2	≤ 50 ppmv (dry basis)		
5105	SO2	≤ 551 tpy		
2723	CO	≤ 26 lb/hr		
2723	CO	≤ 114 tpy		
5105	CO	≤ 235 lb/hr		
5105	CO	≤ 1029 tpy		
5105	CO	≤ 1000 ppm		
2723	NOX	≤ 152 ppmv @ 10% O2	Source testing satisfies periodic monitoring	
5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)		
5105	NOX	≤ 78 ppmv @ 8% O2 (10-day avg)		
5105	NOX	≤ 618 tpy		
5105	NOX	≤ 618 tpy		
2400	TRS	≤ 5 ppmv @ 10% O2 (dry basis)		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
2500	TRS	≤ 5 ppmv @ 10% O2 (dry basis)		
5100	TRS	≤ 5 ppmv @ 10% O2 (dry basis)		
2505	TRS	≤ 20 ppmv @ 8% O2 (dry basis)		
5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)		
5105	TRS	≤ 5 ppmv @ 8% O2 (dry basis)		
2510	TRS	≤ 0.033 lb/T BLS		
5110	TRS	≤ 0.033 lb/T BLS		
5110	TRS	≤ 0.033 lb/T BLS		
2723	TRS	≤ 8 ppmv @ 10% O2 (dry basis)		
2723	TRS	≤ 9 tpy		
2723	VOC	≤ 57 tpy	Production monitoring	
2723	Beryllium	≤ 0.00071 tpy	Production monitoring	
2723	Production	465 ton CaO/day		
2550	Opacity	≤ 40%		
2605	Opacity	≤ 40%		
3705	Opacity	≤ 40%		
2550	PM	≤ 0.6 lb/MMBtu		
2605	PM	≤ 0.6 lb/MMBtu		
3705	PM	≤ 0.6 lb/MMBtu		
2550	SO2	≤ 3.5 lb/MMBtu		
2605	SO2	≤ 3.5 lb/MMBtu		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
3705	SO2	≤ 3.5 lb/MMBtu		
2605	arsenic cadmium	5 ppm 2 ppm		
3705	arsenic cadmium	5 ppm 2 ppm		
2605 and 3705	arsenic cadmium chromium lead nickel hydrogen chloride	≤ 1.7E-3 lb/MMBtu ≤ 1.0E-4 lb/MMBtu ≤ 7.4E-4 lb/MMBtu ≤ 5.0E-3 lb/MMBtu ≤ 6.0E-3 lb/MMBtu ≤ 0.45 lb/MMBtu		
2605 and 3705	TDF feed rate	≤ 1.7E-3 lb/MMBtu ≤ 1.0E-4 lb/MMBtu ≤ 7.4E-4 lb/MMBtu ≤ 5.0E-3 lb/MMBtu ≤ 6.0E-3 lb/MMBtu ≤ 0.45 lb/MMBtu		
2605	TRS	≥ 1200°F and 0.5 sec.		
3705	TRS	≥ 1200°F and 0.5 sec.		
2902	Opacity	≤ 20%		
2903	Opacity	≤ 20%		
2904	Opacity	≤ 20%		
2905	Opacity	≤ 20%		
9800	Opacity	≤ 20%	no potential visible emissions	
9801	Opacity	≤ 20%	no potential visible emissions	
2902	PM	≤ 49.87 lb/hr		
2903	PM	≤ 49.87 lb/hr		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
2904	PM	≤ 35.43 lb/hr		
2905	PM	≤ 35.43 lb/hr		
2903	NOX hours of operation	< 35.26 tpy 7,000 hours		
9801	TRS	≤ 5 ppmv @ 10% O2 (dry basis)		
1100	Opacity	≤ 20%	no potential visible emissions	
1100	VOC	none		
2900	fugitive PM	minimize airborne emissions		
1000	fugitive PM	minimize airborne emissions		
5210 5240 2400 5100 5260 5260C 2605 3705	SO2	≤ 10.1 lb SO2/ADTUBP 3,364 tpy		
5210 5240 2400 5100 5260 5260C 2605 3705	unbleached pulp production	1,825 ADTUBP/day		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III (This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)				
2. Unit ID	**11. Pollutant/Parameter**	**4. Limit**	**18. If no monitoring required, why?**	**19. List any monitoring requirements not listed above**
5210 5220 5230 5240 5250 2400 2500 5100 2605 3705	HAP - closed vent systems	1% LVHC and 4% HVLC venting allowance		
5210 5220 5230 5240 5250 5300 2400 2500 5100 9800 9801 2605 3705	HAP - closed collection systems	vent system negative pressure or vent system 500 ppm (positive pressure) collection system tank openings closed and collection system drains		
5210 5220 2400 2500 5100 9800 9801	HAP - condensate collection and treatment	collect at least 11.1 lb HAP/ODTP and remove at least 10.2 lb HAP/ODTP		
5105	NOX offset	101.4 tons		

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
1300									
1300									
1300									
5210									
5220									
5230									
5240									
5250									
5210	02 Kraft Pulp Mill - Continuous Digester	TRS	125	5260C 2605 and 3705	12.5	Yes			
5220	02 Kraft Pulp Mill - Turpentine recovery system	TRS	21.7	5260C 2605 and 3705	2.2	Yes			
5300									
5300	03 Kraft Bleach Plant	ClO2	79.3	5300C	4.0		No	Yes	MACT source
1790									
1790	04 Chlorine Dioxide Plant	ClO2	2.9	1700C	0.3		No		
4400									
4400									
2000									
2005									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
4100									
4110									
4600									
4605									
9700									
9701A									
9701B									
9702									
9703									
9704									
2000 and 2005									
4100 and 4110									
4600 and 4605									
9700	06 Paper Mill - Starch Silos	PM	240	B-2000	2.4	Yes			
9701A, 9701B, 9702, 9703, and 9704									
2010									
4610									
4120									
4130									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
9900									
2010									
4120									
4130									
4610									
9900									
4110									
4610									
9900									
4110									
2010									
2010 4610									
2402									
2500									
2400									
5100									
2515									
2520									
5115									
5120									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
2700									
2701									
2702									
2703									
2505									
2723									
2510									
5110									
5105									
5105									
2505	07 Chemical Recovery - No. 2 Recovery Furnace	PM PM10 PM2.5	7,706 4,080 3,029	2505C	77.1 40.8 30.3	Yes			
2505	07 Chemical Recovery - No. 2 Recovery Furnace	PM PM10 PM2.5	7,706 4,080 3,029	2505C	77.1 40.8 30.3	Yes			
2510	07 Chemical Recovery - No. 2 Smelt Tank	PM PM10 PM2.5	1,504 87.6 87.6	2510C	30.1 1.8 1.8	Yes			
2510	07 Chemical Recovery - No. 2 Smelt Tank	PM PM10 PM2.5	1,504 87.6 87.6	2510C	30.1 1.8 1.8	Yes			
5105	07 Chemical Recovery - No. 3 Recovery Furnace	PM PM10 PM2.5	13,924 7,372 5,473	5105C	139 73.7 54.7	Yes			

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
5105	07 Chemical Recovery - No. 3 Recovery Furnace	PM PM10 PM2.5	13,924 7,372 5,473	5105C	139 73.7 54.7	Yes			
5105	07 Chemical Recovery - No. 3 Recovery Furnace	PM PM10 PM2.5	13,924 7,372 5,473	5105C	139 73.7 54.7	Yes			
5105	07 Chemical Recovery - No. 3 Recovery Furnace	PM PM10 PM2.5	13,924 7,372 5,473	5105C	139 73.7 54.7	Yes			
5105	07 Chemical Recovery - No. 3 Recovery Furnace	PM PM10 PM2.5	13,924 7,372 5,473	5105C	139 73.7 54.7	Yes			
5110	07 Chemical Recovery - No. 3 Smelt Tank	PM PM10 PM2.5	2,718 158 158	5110C	54.4 3.2 3.2	Yes			
5110	07 Chemical Recovery - No. 3 Smelt Tank	PM PM10 PM2.5	2,718 158 158	5110C	54.4 3.2 3.2	Yes			
5110	07 Chemical Recovery - No. 3 Smelt Tank	PM PM10 PM2.5	2,718 158 158	5110C	54.4 3.2 3.2	Yes			
5110	07 Chemical Recovery - No. 3 Smelt Tank	PM PM10 PM2.5	2,718 158 158	5110C	54.4 3.2 3.2	Yes			
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			
2723	07 Chemical Recovery - No. 2 Lime Kiln	PM PM10 PM2.5	755 249 59	2723C	7.6 2.5 0.8	Yes			
2700 2701	07 Chemical Recovery - Causticizer No.4 and Slaker	PM PM10 PM2.5	187 187 173	2725C	1.9 1.9 1.7	Yes			
2702	07 Chemical Recovery - Purchased Lime Silo	PM PM10 PM2.5	289 201 54	2726C	2.9 2.0 0.5	Yes			
2703	07 Chemical Recovery - Reburned Lime Silo	PM PM10 PM2.5	289 201 54	2726C	2.9 2.0 0.5	Yes			
2723									
5105									
5105									
2723									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
2723									
5105									
5105									
5105									
2723									
5105									
5105									
5105									
5105									
2400	07 Chemical Recovery - No. 1 Evaporator Set	TRS	248	5260C and 2605 or 3705	24.8	Yes			
2500	07 Chemical Recovery - No. 2 Evaporator Set	TRS	221	5260C and 2605 or 3705	22.1	Yes			
5100	07 Chemical Recovery - No. 3 Evaporator Set	TRS	241	5260C and 2605 or 3705	24.1	Yes			
2505									
5105									
5105									
2510									
5110									
5110									
2723									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
2723									
2723									
2723									
2723									
2550									
2605									
3705									
2550									
2605	08 Utilities - No. 1 Combination Boiler	PM PM10 PM2.5	9,272 6,868 6,009	2605C 2605C1	92.7 68.7 60.1	Yes			
3705	08 Utilities - No. 2 Combination Boiler	PM PM10 PM2.5	11,779 8,725 7,634	3705C 3705C1	117.8 87.3 76.3	Yes			
2550									
2605									
3705									
2605									
3705									
2605 and 3705									
2605 and 3705									
2605	08 Utilities - No. 1 Combination Boiler	TRS	2,407	2605	24.1	Yes			

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
3705	08 Utilities - No. 1 Combination Boiler	TRS	2,407	3705	24.1	Yes			
2902									
2903									
2904									
2905									
9800									
9801									
2902									
2903									
2904									
2905									
2903									
9801	09 Waste Treatment - Condensate Steam Stripper	TRS	1,525	2605 or 3705	15.3	Yes			
1100									
1100									
2900									
1000									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
5210 5240 2400 5100 5260 5260C 2605 3705									
5210 5240 2400 5100 5260 5260C 2605 3705									
5210 5220 5230 5240 5250 2400 2500 5100 2605 3705									

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV (This section summarizes the monitoring and reporting requirements)									
2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
5210 5220 5230 5240 5250 5300 2400 2500 5100 9800 9801 2605 3705									
5210 5220 2400 2500 5100 9800 9801									
5105									

NOTE* **If yes, the applicant must submit additional information in the form of a CAM plan as required under 40 CFR 64**
[PLEASE SEE ATTACHMENT H OF DRAFT PERMIT FOR CAM REQUIREMENTS]

FACILITY-WIDE LIMITS FOR REGULATORY AVOIDANCE-PART V (This section summarizes emission unit(s) covered under a limit to avoid an applicable regulation)

2. Unit ID (emission unit covered under the limit)	11. Pollutant/Parameter	4. Limit (Facility-Wide)	26. Parameter to Monitor	27. Applicable Regulation Avoidance
1300 5210 5220 5230 5240 5250 5300 2000 2100 2110 4100 4110 4120 4130 4600 4610 2400 2700 2701 2702 5105 5110 5115	VOC CO TRS H2S H2SO4 Pb	PSD significance level	annual emissions	SC Reg. 61-62.5, Std. 7 (PSD)
5105	PM/PM10 SO2 CO NOX VOC TRS Be	synthetic minor BACT LAER	monthly black liquor solids and fuel firing and 12-month rolling annual emissions	SC Reg. 61-62.1, Sec. II, H (SM) SC Reg. 61-62.5, Std. 7 (PSD) SC Reg. 61-62.5, Std. 7.1 (NSR)

FACILITY-WIDE LIMITS FOR REGULATORY AVOIDANCE-PART V (This section summarizes emission unit(s) covered under a limit to avoid an applicable regulation)				
2. Unit ID (emission unit covered under the limit)	**11. Pollutant/Parameter**	**4. Limit (Facility-Wide)**	**26. Parameter to Monitor**	**27. Applicable Regulation Avoidance**
5210 5240 2400 5100 5260 5260C 2605 3705	NOX VOC	PSD significance level	annual emissions monthly average and 12-month rolling average kappa number	SC Reg. 61-62.5, Std. 7(r) (PSD)

ADDITIONAL INFORMATION FOR MACT SOURCES-PART VI (This section allows for additional information or requirements for sources subject to a MACT Standard)			
2. Unit ID	**28. New or Existing Equipment**	**29. Control Equip ID**	**30. List any unit/equipment which is specifically exempt from MACT standards and state why.**

ADDITIONAL INFORMATION FOR MACT SOURCES-PART VII (This section allows for additional requirements for sources subject to a MACT Standard)	
2. Unit ID	**31. List Other MACT Requirements: Operation examples, such as, maintenance and monitoring, operational/maintenance & malfunction (OM &M) plan, startup, shutdown, and malfunction (SSM) Plan, leak detection and repair (LDAR), wastewater unit requirements, etc.**

ADDITIONAL INFORMATION FOR MACT SOURCES-PART VII (This section allows for additional requirements for sources subject to a MACT Standard)	
2. Unit ID	**31. List Other MACT Requirements: Operation examples, such as, maintenance and monitoring, operational/maintenance & malfunction (OM &M) plan, startup, shutdown, and malfunction (SSM) Plan, leak detection and repair (LDAR), wastewater unit requirements, etc.**
5210 5220 5230 5240 5250 5300 2400 2500 2505 2510 2723 5100 5105 5110 2605 3705 9800 9801 Control Devices 5260 5260C 2605 3705	SSM Plan and Quality Control Program for Continuous Monitoring Systems

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Title V Permit Application
Streamlining Applicable Requirements– Form J
Bureau of Air Quality

Please Refer to Instruction / Definitions Pages Before Completing This Form

STREAMLINING APPLICABLE REQUIREMENTS				
1. Emission Unit ID:	**2. Requirement to be streamlined**	**3. Citation or Permit ID**	**4. Reason to streamline**	**5. Suggested replacement or hybrid**
See draft permit for streamlining	See draft permit for streamlining	See draft permit for streamlining	See draft permit for streamlining	See draft permit for streamlining

Please Refer to Instruction / Definitions Pages Before Completing This Form

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
SC Reg. 61-62.1	Definitions	Y	D	
SC Reg. 61-62.2	Prohibition of Open Burning	Y	D	
SC Reg. 61-62.3	Air Pollution Episodes	N	J	Commissioner criteria
SC Reg. 61-62.4	Hazardous Air Pollution Conditions	Y	D	
SC Reg. 61-62.5, Std. 1	Emissions from Fuel Burning Operations	Y	I	
SC Reg. 61-62.5, Std. 2	Ambient Air Standards	Y	D	
SC Reg. 61-62.5, Std. 3	Waste Combustion and Reduction	Y	I	
SC Reg. 61-62.5, Std. 3.1	Hospital, Medical, Infectious Waste Incinerators (HMIWI)	N	A	
SC Reg. 61-62.5, Std. 4	Emissions from Process Industries	Y	I	
SC Reg. 61-62.5, Std. 5	Volatile Organic Compounds	Y	I	
SC Reg. 61-62.5, Std. 5.1	LAER/BACT Applicable to VOC	N	J	The Net increase in VOC from 1979 baseline is less than 100 tons
SC Reg. 61-62.5, Std. 5.2	Control of Oxides of Nitrogen	Y	I	
SC Reg. 61-62.5, Std. 6	Alternative Emission Limitation Options	N	A	
SC Reg. 61-62.5, Std. 7	Prevention of Significant Deterioration	Y	I	
SC Reg. 61-62.5, Std. 7.1	Non-attainment New Source Review	Y	I	
SC Reg. 61-62.5, Std. 8	Toxic Air Pollutants	Y	D	
SC Reg. 61-62.6	Control of Fugitive Particulate Matter	Y	I	
SC Reg. 61-62.7	Good Engineering Practice Stack Heights	Y	D	
SC Reg. 61-62.60, Subpart A	SC Designated Facility Plan and New Source Performance Standards-General Provisions	Y	I	
SC Reg. 61-62.60, Subparts Cb-Ka; L-AAa; CC-HHHH	SC Designated Facility Plan and New Source Performance Standards	N	A	
SC Reg. 61-62.60, Subpart BB	SC Designated Facility Plan and New Source Performance Standards-Standards of Performance for Kraft Pulp Mills	Y	I	
SC Reg. 61-62.60, Subpart Kb	SC Designated Facility Plan and New Source Performance Standards- Standards of Performance For Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984"	Y	I	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
SC Reg. 61-62.61	National Emission Standards for Hazardous Air Pollutants (NESHAP)	N	A	
SC Reg. 61-62.63, Subpart A	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories-General Provisions	Y	I	
SC Reg. 61-62.63, Subparts F-R; T-LL; NN-IIII; KKKK-CCCCC; EEEEE-	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories	N	A	
SC Reg. 61-62.61, Subpart S	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories- National Emission Standards for Hazardous Air Pollutants From the Pulp and Paper Industry"	Y	I	
SC Reg. 61-62.61, Subpart MM	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories- National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills"	Y	I	
SC Reg. 61-62.61, Subpart JJJJ	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories-National Emission Standards For Hazardous Air Pollutants: Paper and Other Web Coating	Y	I	
SC Reg. 61-62.61, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories-National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Industrial Boilers and Process Heaters	Y	I	
SC Reg. 61-62.68	Chemical Accident Prevention Program	Y	D	Chlorine Dioxide
SC Reg. 61-62.70	Title V Operating Permit Program	Y	J	Existing facility is currently a major source and possesses a Title V operating permit
SC Reg. 61-62.72	Acid Rain	N	A	
SC Reg. 61-62.96	Nitrogen Oxides (NOx) Budget Trading Program	Y	I	
SC Reg. 61-62.99	NOx Trading Program Requirements for Stationary Sources Not in the Trading Program	N	A	
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards	Y	D	
40 CFR 51	Requirements for Preparation, Adoption, and Submittal of Implementation Plans	Y	D	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 52	Approval and Promulgation of Implementation Plans	Y	D	
40 CFR 53	Ambient Air Monitoring Reference and Equivalent Methods	N	J	Requirements for State agencies
40 CFR 54	Prior Notice of Citizen Suits	N	J	Requirements for State agencies
40 CFR 55	Outer Continental Shelf Air Regulations	N	A	
40 CFR 56	Regional Consistency	N	J	Requirements for State agencies
40 CFR 57	Primary Nonferrous Smelter Orders	N	A	
40 CFR 58	Ambient Air Quality Surveillance	N	J	
40 CFR 59	National Volatile Organic Compound Emission Standard for Consumer and Commercial Products	N	A	
40 CFR 60 subpart A	General Provisions	Y	I	
40 CFR 60 subpart B	Adoption and Submittal of State Plans for Designated Facilities	N	A	
40 CFR 60 subpart C	Emission Guidelines and Compliance Times	N	A	
40 CFR 60 subpart Cb	Emissions Guidelines and Compliance Times for Large Municipal Waste Combustors that are Constructed on or Before September 20, 1994	N	A	
40 CFR 60 subpart Cc	Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills	N	A	
40 CFR 60 subpart Cd	Emissions Guidelines and Compliance Times for Sulfuric Acid Production Units	N	A	
40 CFR 60 subpart Ce	Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators	N	A	
40 CFR 60 subpart D	Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	N	A	
40 CFR 60, Subpart Da	Electric Utility Steam Generated Units	N	A	
40 CFR 60, Subpart Db	Institutional Steam Generating Units	N	A	
40 CFR 60, Subpart Dc	Small Industrial Commercial Institutional Steam Generating Units	N	A	
40 CFR 60, Subpart E	Incinerators	N	A	
40 CFR 60, Subpart Ea	Municipal Waste Combustors	N	A	
40 CFR 60, Subpart Eb	Large Municipal Waste Combustors	N	A	
40 CFR 60, Subpart Ec	Hospital/Medical/Infectious Waste Incinerators	N	A	
40 CFR 60, Subpart F	Portland Cement Plants	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 60, Subpart G	Nitric Acid Plants	N	A	
40 CFR 60, Subpart H	Sulfuric Acid Plants	N	A	
40 CFR 60, Subpart J	Petroleum Refineries	N	A	
40 CFR 60, Subpart K	Storage Vessels for Petroleum Liquids	N	A	
40 CFR 60, Subpart Ka	Storage Vessels for Petroleum Liquids	N	A	
40 CFR 60, Subpart Kb	Volatile Organic Liquid Storage Vessels	Y	I	
40 CFR 60, Subpart L	Secondary Lead Smelters	N	A	
40 CFR 60, Subpart M	Secondary Brass and Bronze Production Plants	N	A	
40 CFR 60, Subpart N	Primary Emissions from Basic Oxygen Furnaces	N	A	
40 CFR 60, Subpart Na	Iron and Steel Plants	N	A	
40 CFR 60, Subpart O	Sewage Treatment Plants			
40 CFR 60, Subpart P	Primary Copper Smelters	N	A	
40 CFR 60, Subpart Q	Primary Zink Smelters	N	A	
40 CFR 60, Subpart R	Primary Lead Smelters	N	A	
40 CFR 60, Subpart S	Primary Aluminum Reduction Plants	N	A	
40 CFR 60, Subpart T	Phosphate Fertilizer Industry: Wet Process Phosphoric Acid Plants	N	A	
40 CFR 60, Subpart U	Phosphate Fertilizer Industry: Superphosphoric Acid Plants	N	A	
40 CFR 60, Subpart V	Phosphate Fertilizer Industry: Diammonium Phosphate Plants	N	A	
40 CFR 60, Subpart W	Phosphate Fertilizer Industry: Triple Superphosphate Plants	N	A	
40 CFR 60, Subpart X	Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities	N	A	
40 CFR 60, Subpart Y	Coal Preparation Plants	N	A	
40 CFR 60, Subpart Z	Ferroalloy Production Facilities	N	A	
40 CFR 60, Subpart AA	Steal Plants: Electric Arc Furnaces	N	A	
40 CFR 60, Subpart AAa	Steal Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels	N	A	
40 CFR 60, Subpart BB	Standards Of Performance For Kraft Pulp Mills	Y	I	
40 CFR 60, Subpart CC	Glass Manufacturing Plants	N	A	
40 CFR 60, Subpart DD	Grain Elevators	N	A	
40 CFR 60, Subpart EE	Surface Coating of Metal Furniture	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 60, Subpart FF	Reserved	N	A	
40 CFR 60, Subpart GG	Stationary Gas Turbines	N	A	
40 CFR 60, Subpart HH	Lime Manufacturing Plants	N	A	
40 CFR 60, Subpart KK	Lead Acid Battery Manufacturing Plants	N	A	
40 CFR 60, Subpart LL	Metallic Mineral Processing Plants	N	A	
40 CFR 60, Subpart MM	Automobile and Light Duty Truck Surface Coating Operations	N	A	
40 CFR 60, Subpart NN	Phosphate Rock Plants	N	A	
40 CFR 60, Subpart PP	Aluminum Sulfate Manufacturing Plants	N	A	
40 CFR 60, Subpart QQ	Graphics Arts Industry: Publication Rotogravure Printing	N	A	
40 CFR 60, Subpart RR	Pressure Sensitive Tape and Label Surface Coating Operations	N	A	
40 CFR 60, Subpart SS	Industrial Surface Coating: Large Appliances	N	A	
40 CFR 60, Subpart TT	Metal Coil Surface Coating	N	A	
40 CFR 60, Subpart UU	Asphalt Processing and Asphalt Roofing Manufacturing	N	A	
40 CFR 60, Subpart VV	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry	N	A	
40 CFR 60, Subpart WW	Beverage Can Surface Coating Industry	N	A	
40 CFR 60, Subpart XX	Bulk Gasoline Terminals	N	A	
40 CFR 60, Subpart AAA	New Residential Wood Heaters	N	A	
40 CFR 60, Subpart BBB	Rubber Tire Manufacturing Industry	N	A	
40 CFR 60, Subpart CCC	Reserved	N	A	
40 CFR 60, Subpart DDD	Polymer Manufacturing Facility	N	A	
40 CFR 60, Subpart EEE	Reserved	N	A	
40 CFR 60, Subpart FFF	Flexible Vinyl and Urethane Coating and Printing	N	A	
40 CFR 60, Subpart GGG	Equipment Leaks of VOC in Petroleum Refineries	N	A	
40 CFR 60, Subpart HHH	Synthetic Fiber Production Facilities	N	A	
40 CFR 60, Subpart III	VOC Emissions from Synthetic Organic Chemical Manufacturing Industry Air Oxidation Unit Process	N	A	
40 CFR 60, Subpart JJJ	Petroleum Dry Cleaners	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 60, Subpart KKK	Onshore Natural Gas Processing Plants	N	A	
40 CFR 60, Subpart LLL	On-shore Natural Gas Processing SO_2 Emissions	N	A	
40 CFR 60, Subpart MMM	Reserved	N	A	
40 CFR 60, Subpart NNN	Synthetic Organic Chemical Manufacturing Industry Distillation Operations	N	A	
40 CFR 60, Subpart OOO	Nonmetallic Mineral Process Plants	N	A	
40 CFR 60, Subpart PPP	Wool Fiberglass Insulation Manufacturing Plants	N	A	
40 CFR 60, Subpart QQQ	Petroleum Refinery Wastewater VOC Emissions	N	A	
40 CFR 60, Subpart RRR	Synthetic Organic Chemical Manufacturing Industrial Reactor Processes	N	A	
40 CFR 60, Subpart SSS	Magnetic Tape Coating Facilities	N	A	
40 CFR 60, Subpart TTT	Industrial Surface Coating: Plastic Parts for Business Machines	N	A	
40 CFR 60, Subpart UUU	Calciners and Dryers in Minerals Industries	N	A	
40 CFR 60, Subpart VVV	Polymeric Coating of Supporting Substrates Facilities	N	A	
40 CFR 60, Subpart WWW	Municipal Solid Waste Landfills	N	A	
40 CFR 60, Subpart YYY	Synthetic Organic Chemical Manufacturing Industrial Wastewater	N	A	
40 CFR 61, Subpart A	General Provisions	N	A	
40 CFR 61, Subpart B	Radon Emissions from Underground Uranium Mines	N	A	
40 CFR 61, Subpart C	Beryllium	N	A	
40 CFR 61, Subpart D	Beryllium Rocket Motor Firing	N	A	
40 CFR 61, Subpart E	Mercury	N	A	
40 CFR 61, Subpart F	Vinyl Chloride	N	A	
40 CFR 61, Subpart G	Revised	N	A	
40 CFR 61, Subpart H	Emissions of Radionuclides Other than Radon from Department of Energy (DOE) Facilities	N	A	
40 CFR 61, Subpart I	Radionuclide Emissions from Facilities Licensed by the Nuclear Regulatory Commission (NRC) and Federal Facilities not Covered by Subpart H	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 61, Subpart J	Equipment Leaks (Fugitive Emission Sources) of Benzene	N	A	
40 CFR 61, Subpart K	Radionuclide Emissions from Elemental Phosphorous Plants	N	A	
40 CFR 61, Subpart L	Benzene Emissions from Coke By Product Recovery Plants	N	A	
40 CFR 61, Subpart M	Asbestos	N	A	
40 CFR 61, Subpart N	Inorganic Arsenic Emissions from Glass Manufacturing	N	A	
40 CFR 61, Subpart O	Inorganic Arsenic Emissions from Primary Copper Smelters	N	A	
40 CFR 61, Subpart P	Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities	N	A	
40 CFR 61, Subpart Q	Radon Emissions from Department of Energy (DOE) Facilities	N	A	
40 CFR 61, Subpart R	Radon Emissions from Phosphogypsum Stacks	N	A	
40 CFR 61, Subpart S	Reserved	N	A	
40 CFR 61, Subpart T	Radon Emissions from the Disposal of Uranium Mill Tailings	N	A	
40 CFR 61, Subpart U	Reserved	N	A	
40 CFR 61, Subpart V	Equipment Leaks (Fugitive Emission Sources)	N	A	
40 CFR 61, Subpart W	Radon Emissions from Operating Mill Tailings	N	A	
40 CFR 61, Subpart X	Reserved	N	A	
40 CFR 61, Subpart Y	Benzene Emissions from Benzene Storage Vessels	N	A	
40 CFR 61, Subpart Z	Reserved	N	A	
40 CFR 61, Subpart AA	Reserved	N	A	
40 CFR 61, Subpart BB	Benzene Emissions from Benzene Transfer Operations	N	A	
40 CFR 61, Subpart CC	Reserved	N	A	
40 CFR 61, Subpart DD	Reserved	N	A	
40 CFR 61, Subpart EE	Reserved	N	A	
40 CFR 61, Subpart FF	Benzene Waste Operations	N	A	
40 CFR 62	Approval and Promulgation of State Plans for Designated Facilities and Pollutants	N	J	Requirements for State agencies
40 CFR 63, Subpart A	General Provisions	Y	I	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart B	Requirements For Control Technology Determinations For Major Sources In Accordance With Clean Air Act Sections, Sections 112(g) And 112(j)	N	A	
40 CFR 63, Subpart C	List of Hazardous Air Pollutants, Petition Process, Lesser Quantity Designations, Source Category List	Y	I	
40 CFR 63, Subpart D	Compliance Extensions for Early Reductions of HAPs	N	A	
40 CFR 63, Subpart E	Approval for State Programs and Delegation of Federal Authorities	N	A	
40 CFR 63, Subpart F	Organic Hazardous Air Pollution for the Synthetic Organic Chemical Manufacturing Industry (SOCMI)	N	A	
40 CFR 63, Subpart G	Organic Hazardous Air Pollutants form SOCMI for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	N	A	
40 CFR 63, Subpart H	Hazardous Organic Standards for Equipment Leaks	N	A	
40 CFR 63, Subpart I	Processes Subject to Negotiated Regulation for Equipment Leaks	N	A	
40 CFR 63, Subpart J	Polyvinyl Chloride and Copolymers Production	N	A	
40 CFR 63, Subpart K	Reserved	N	A	
40 CFR 63, Subpart L	Coke Oven Batteries	N	A	
40 CFR 63, Subpart M	Perchloroethylene Air Standard for Dry Cleaning	N	A	
40 CFR 63, Subpart N	Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	N	A	
40 CFR 63, Subpart O	Ethylene Oxide Emissions for Sterilization Facilities	N	A	
40 CFR 63, Subpart P	Reserved	N	A	
40 CFR 63, Subpart Q	Industrial Process Cooling Towers	N	A	
40 CFR 63, Subpart R	Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations	N	A	
40 CFR 63, Subpart S	National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry	Y	I	
40 CFR 63, Subpart T	Halogenated Solvent Cleaning	N	A	
40 CFR 63, Subpart U	Group I Polymers and Resins	N	A	
40 CFR 63, Subpart V	Reserved	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart W	Epoxy Resins and Non-Nylon Polyamides Production	N	A	
40 CFR 63, Subpart X	Secondary Lead Smelting	N	A	
40 CFR 63, Subpart Z	Marine Tank Vessel Loading Operations	N	A	
40 CFR 63, Subpart AA	Phosphoric Acid Manufacturing Plants	N	A	
40 CFR 63, Subpart BB	Phosphate Fertilizers Production Plants	N	A	
40 CFR 63, Subpart CC	Petroleum Refineries	N	A	
40 CFR 63, Subpart DD	Off-Site Waste and Recovery Operations	N	A	
40 CFR 63, Subpart EE	Magnetic Tape Manufacturing Operations	N	A	
40 CFR 63, Subpart FF	Reserved	N	A	
40 CFR 63, Subpart GG	Aerospace Manufacturing and Re-work Facilities	N	A	
40 CFR 63, Subpart HH	Oil and Natural Gas Production Facilities	N	A	
40 CFR 63, Subpart II	Shipbuilding and Ship Repair (Surface Coating)	N	A	
40 CFR 63, Subpart JJ	Wood Furniture Manufacturing	N	A	
40 CFR 63, Subpart KK	Printing and Publishing Industry	N	A	
40 CFR 63, Subpart LL	Primary Aluminum Reduction Plants	N	A	
40 CFR 63, Subpart MM	National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills	Y	I	
40 CFR 63, Subpart NN	Reserved	N	J	Reserved
40 CFR 63, Subpart OO	Tanks-Level I	N	A	
40 CFR 63, Subpart PP	Containers	N	A	
40 CFR 63, Subpart QQ	Surface Impoundments	N	A	
40 CFR 63, Subpart RR	Individual Drains	N	A	
40 CFR 63, Subpart SS	Closed Vent Systems, Control Devices, Recovery Devices, and Routing to Fuel Gas System or a Process	N	A	
40 CFR 63, Subpart TT	Equipment Leaks-Control Level 1 Standards	N	A	
40 CFR 63, Subpart UU	Equipment Leaks-Control Level 2 Standards	N	A	
40 CFR 63, Subpart VV	Oil-Water Separators and Organic-Waste Separators	N	A	
40 CFR 63, Subpart WW	Storage Vessels (Tanks)-Control Level 2	N	A	
40 CFR 63, Subpart XX	Ethylene Manufacturing Process Units-Heat Exchange Systems and Waste	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart YY	Generic Maximum Achievable Control Technology Standards	N	A	
40 CFR 63, Subpart ZZ	Reserved	N	J	Reserved
40 CFR 63, Subpart AAA	Reserved	N	J	Reserved
40 CFR 63, Subpart BBB	Reserved	N	J	Reserved
40 CFR 63, Subpart CCC	Steel Pickling-HCl Process Facilities and Hydrochloric Acid Regeneration Plants	N	A	
40 CFR 63, Subpart DDD	Mineral Wool Products	N	A	
40 CFR 63, Subpart EEE	Hazardous Waste Combustors	N	A	
40 CFR 63, Subpart FFF	Reserved	N	A	
40 CFR 63, Subpart GGG	Pharmaceuticals Production	N	A	
40 CFR 63, Subpart HHH	Natural Gas Transmission and Storage Facilities	N	A	
40 CFR 63, Subpart III	Flexible Polyurethane Foam Production	N	A	
40 CFR 63, Subpart JJJ	Group IV Polymers and Resins	N	A	
40 CFR 63, Subpart KKK	Reserved	N	A	
40 CFR 63, Subpart LLL	Portland Cement Manufacturing Industry	N	A	
40 CFR 63, Subpart MMM	Pesticide Active Ingredient Production	N	A	
40 CFR 63, Subpart NNN	Wood Fiberglass Manufacturing	N	A	
40 CFR 63, Subpart OOO	Amino/Phenolic Resins Manufacturing	N	A	
40 CFR 63, Subpart PPP	Polyester Polyols Production	N	A	
40 CFR 63, Subpart QQQ	Primary Copper Smelters	N	A	
40 CFR 63, Subpart RRR	Secondary Aluminum Production	N	A	
40 CFR 63, Subpart SSS	Reserved	N	A	
40 CFR 63, Subpart TTT	Primary Lead Smelting	N	A	
40 CFR 63, Subpart UUU	Petroleum Refineries-Catalytic Cracking (Fluid and Other) Units , Catalytic Reforming Units, and Sulfur Plants	N	A	
40 CFR 63, Subpart VVV	Publicly Owned Treatment Works	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart WWW	Reserved	N	J	Reserved
40 CFR 63, Subpart XXX	Ferroalloys Production-Ferromanganese and Silicomanganese	N	A	
40 CFR 63, Subpart YYY	Reserved	N	J	Reserved
40 CFR 63, Subpart ZZZ	Reserved	N	J	Reserved
40 CFR 63, Subpart AAAA	Municipal Solid Waste Landfills	N	A	
40 CFR 63, Subpart BBBB	Reserved	N	J	Reserved
40 CFR 63, Subpart CCCC	Nutritional Yeast Manufacturing	N	A	
40 CFR 63, Subpart DDDD	Plywood and Composite Wood Products	N	A	
40 CFR 63, Subpart EEEE	Organic Liquid Distribution (non-gasoline)	N	J	
40 CFR 63, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing NESHAP	N	A	
40 CFR 63, Subpart GGGG	Solvent Extraction for Vegetable Oil Production	N	A	
40 CFR 63, Subpart HHHH	Wet-Formed Fiberglass Mat Production	N	A	
40 CFR 63, Subpart IIII	Automobile/Light-Duty Truck (Surface Coating)	N	A	
40 CFR 63, Subpart JJJJ	National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating	Y	I	
40 CFR 63, Subpart KKKK	Metal Can (Surface Coating)	N	A	
40 CFR 63, Subpart LLLL	Reserved	N	J	Reserved
40 CFR 63, Subpart MMMM	Miscellaneous Metal Parts (Surface Coating)	N	A	
40 CFR 63, Subpart NNNN	Surface Coating of Large Appliances	N	A	
40 CFR 63, Subpart OOOO	Printing, Coating and Drying of Fabrics	N	A	
40 CFR 63, Subpart PPPP	Plastic Parts and Products	N	A	
40 CFR 63, Subpart QQQQ	Wood Building Products	N	A	
40 CFR 63, Subpart RRRR	Metal Furniture (Surface Coating)	N	A	
40 CFR 63, Subpart SSSS	Metal Coil Coating	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart TTTT	Leather Finishing Operations	N	A	
40 CFR 63, Subpart UUUU	Cellulose Product Manufacturing	N	A	
40 CFR 63, Subpart VVVV	Boat Manufacturing	N	A	
40 CFR 63, Subpart WWWW	Reinforced Plastic Composites Production	N	A	
40 CFR 63, Subpart XXXX	Rubber Tire Manufacturing	N	A	
40 CFR 63, Subpart YYYY	Combustion Turbines	N	A	
40 CFR 63, Subpart ZZZZ	Reciprocating Internal Combustion Engines	N	A	
40 CFR 63, Subpart AAAAA	Lime Manufacturing	N	A	
40 CFR 63, Subpart BBBBB	Semiconductor Manufacturing	N	A	
40 CFR 63, Subpart CCCCC	Coke Ovens-Pushing, Quenching and Battery Stacks	N	A	
40 CFR 63, Subpart DDDDD	Industrial/Commercial/Institutional Boilers and Process Heaters	Y	E	Regulation final March 21, 2011, compliance date March 2014. Regulation re-proposed December 23, 2011. Final Regulation signed December 21, 2012.
40 CFR 63, Subpart EEEEE	Iron Foundries	N	A	
40 CFR 63, Subpart FFFFF	Integrated Iron and Steel Manufacturing	N	A	
40 CFR 63, Subpart GGGGG	Site Remediation	N	A	
40 CFR 63, Subpart HHHHH	Miscellaneous Coating Manufacturing NESHAP	N	A	
40 CFR 63, Subpart JJJJJ	Brick and Structural Clay Products	N	A	
40 CFR 63, Subpart KKKKK	Clay Ceramics Manufacturing	N	A	
40 CFR 63, Subpart LLLLL	Asphalt Roofing and Processing	N	A	
40 CFR 63, Subpart MMMMM	Flexible Polyurethane Foam Fabrication Operation	N	A	
40 CFR 63, Subpart NNNNN	Hydrochloric Acid Production	N	A	
40 CFR 63, Subpart PPPPP	Engine Test Cells/Stands	N	A	
40 CFR 63, Subpart RRRRR	Taconite Iron Ore Processing	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart SSSSS	Refractories Manufacturing	N	A	
40 CFR 63, Subpart TTTTT	National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining	No	A	
40 CFR 63, Subpart UUUUU	Reserved	No	J	Reserved
40 CFR 63, Subpart VVVVV	Reserved	No	J	Reserved
40 CFR 63, Subpart WWWWW	National Emission Standards For Hospital Ethylene Oxide Sterilizers	No	A	
40 CFR 63, Subpart XXXXX	Reserved	No	J	Reserved
40 CFR 63, Subpart YYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities	No	A	
40 CFR 63, Subpart ZZZZZ	National Emission Standards for Hazardous Air Pollutants for Iron And Steel Foundries Area Sources	No	A	
40 CFR 63, Subpart AAAAAA	Reserved	No	J	Reserved
40 CFR 63, Subpart BBBBBB	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities	No	A	
40 CFR 63, Subpart CCCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	No	A	
40 CFR 63, Subpart DDDDDD	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources	No	A	
40 CFR 63, Subpart EEEEEE	National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources	No	A	
40 CFR 63, Subpart FFFFFF	National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources	No	A	
40 CFR 63, Subpart GGGGGG	National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources-Zinc, Cadmium, and Beryllium	No	A	
40 CFR 63, Subpart HHHHHH	National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources	No	A	
40 CFR 63, Subpart IIIIII	Reserved	No	J	Reserved

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	No	A	
40 CFR 63, Subpart KKKKKK	Reserved	No	J	Reserved
40 CFR 63, Subpart LLLLLL	National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources	No	A	
40 CFR 63, Subpart MMMMMM	National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources	No	A	
40 CFR 63, Subpart NNNNNN	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds	No	A	
40 CFR 63, Subpart OOOOOO	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources	No	A	
40 CFR 63, Subpart PPPPPP	National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources	No	A	
40 CFR 63, Subpart QQQQQQ	National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources	No	A	
40 CFR 63, Subpart RRRRRR	National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources	No	A	
40 CFR 63, Subpart SSSSSS	National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources	No	A	
40 CFR 63, Subpart TTTTTT	National Emission Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources	No	A	
40 CFR 63, Subpart UUUUUU	Reserved	No	J	Reserved
40 CFR 63, Subpart VVVVVV	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources	No	A	
40 CFR 63, Subpart WWWWWW	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations	No	A	
40 CFR 63, Subpart XXXXXX	National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories	No	A	
40 CFR 63, Subpart YYYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities	No	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 63, Subpart ZZZZZZ	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries	No	A	
40 CFR 63, Subpart AAAAAAA	National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing	No	A	
40 CFR 63, Subpart BBBBBBB	National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry	No	A	
40 CFR 63, Subpart CCCCCCC	National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing	No	A	
40 CFR 63, Subpart DDDDDDD	National Emission Standards for Hazardous Air Pollutants for Area Sources: Prepared Feeds Manufacturing	No	A	
40 CFR 63, Subpart EEEEEEE	National Emission Standards for Hazardous Air Pollutants for Area Sources: Gold Mine Ore Processing and Production	No	A	
40 CFR 63, Not Assigned	Chlorine Production	N	A	
40 CFR 63, Not Assigned	Primary Magnesium Refining	N	A	
40 CFR 64	Compliance Assurance Monitoring (CAM)	Y	I	
40 CFR 65	Consolidated Federal Air Rule	N	A	
40 CFR 66	Assessment and Collection of Noncompliance Penalties by EPA	Y	N	No actions pending
40 CFR 67	EPA Approval of State Noncompliance Penalty Program	N	A	Requirements for states
40 CFR 68	Chemical Accident Prevention Provisions	Y	I	
40 CFR 69	Special Exemptions From Requirements Of The Clean Air Act	N	A	
40 CFR 70	Operating Permit State Programs	Y	J	Existing facility is currently a major source and possesses a Title V operating permit issued under SC regulations
40 CFR 71	Federal Operating Permit Programs	N	J	Operating permits issued under SC regulations
40 CFR 72	Permits Regulation	N	A	
40 CFR 73	Allowance System	N	A	
40 CFR 74	Sulfur Dioxide Opt-Ins	N	A	
40 CFR 75	Continuous Emissions Monitoring	Y	J	Required as part of NOx Budget Requirements
40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	N	A	

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 77	Excess Emissions	N	A	
40 CFR 78	Appeal Procedures	N	A	
40 CFR 79	Registration Of Fuels And Fuel Additives	N	A	
40 CFR 80	Regulation Of Fuels And Fuel Additives	N	A	
40 CFR 81	Designation Of Areas For Air Quality Planning Purposes	Y	J	Facility is located in a designated area
40 CFR 82A-G; H	Protection Of Stratospheric Ozone	N	A	
40 CFR 82 F	Protection of Stratospheric Ozone: Recycling and Emission Reduction	Y	I	
40 CFR 83	Reserved	N	J	Reserved
40 CFR 84	Reserved	N	J	Reserved
40 CFR 85	Control Of Air Pollution From Mobile Sources	N	A	
40 CFR 86	Control Of Emissions From New And In-Use Highway Vehicles And Engines	N	A	
40 CFR 87	Control Of Air Pollution From Aircraft And Aircraft Engines	N	A	
40 CFR 88	Clean-Fuel Vehicles	N	A	
40 CFR 89	Control Of Emissions From New And In-Use Nonroad Compression-Ignition Engines	N	A	
40 CFR 90	Control Of Emissions From Nonroad Spark-Ignition Engines At Or Below 19 Kilowatts	N	A	
40 CFR 91	Control Of Emissions From Marine Spark-Ignition Engines	N	A	
40 CFR 92	Control Of Air Pollution From Locomotives And Locomotive Engines	N	A	
40 CFR 93	Determining Conformity Of Federal Actions To State Or Federal Implementation Plans	N	J	Requirements for state agencies
40 CFR 94	Control Of Emissions From Marine Compression-Ignition Engines	N	A	
40 CFR 95	Mandatory Patent Licenses	N	A	
40 CFR 96	NO_X Budget Trading Program And CAIR NO_X And SO_2 Trading Programs For State Implementation Plans	N	J	Requirements for state agencies
40 CFR 97	Federal NO_X Budget Trading Program And CAIR NO_X And SO_2 Trading Programs	N	J	Requirements of 40 CFR 96 will become part of this regulation
40 CFR 98	Mandatory Reporting of Greenhouse Gases	Y	J	Applies to facility, not required to be incorporated into Title V operating permit

STANDARD REASONS	
Indicator	Standard Reason

STANDARD REASONS	
Indicator	**Standard Reason**
A	The facility is not in the applicable source category
B	The specified source/process is not present at the facility
C	The facility/unit was constructed or last modified prior to the effective date of the rule
D	Applies to all facilities
E	Rule/Standard proposed, but not final/effective
F	The facility/unit emits pollutants at a level less than established by the rule
G	The facility/unit design capacity or production capacity is less than established by the rule.
H	The facility is not in a special control/non-attainment area.
I	Applicable to facility; requirements are listed in permit application and facility has certified compliance.
J	Other (explain)

For CAM-affected emission units, the applicant must submit additional information in the form of a CAM Plan as required under 40 CFR64.

For information about the CAM rule and this form, please refer to 40 CFR 64. Additional information (including guidance documents) may be found at http://www.epa.gov/ttn/emc/cam.html

SOURCE INFORMATION

1. Facility Name: Resolute FP US Inc.
2. Permit No.: TV-2440-0005
3. Date Form Prepared: December 28, 2012

CAM APPLICABILITY DETERMINATION

4. Does the source have a Pollutant Specific Emission Unit (PSEU) that is subject to CAM, 40 CFR Part 64, which must be addressed in this CAM Plan submittal? ☒ Yes ☐ No

To determine applicability, a PSEU must meet all of the following criteria (If no, then the remainder of this form need not be completed):

A. The PSEU is located at a major source.

B. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is **NOT** exempt;

List of Exempt Emission Limitations or Standards:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
- Stratospheric ozone protection requirements.
- Acid Rain program requirements.
- Emission limitations or standards for which a Title V permit specifies a continuous compliance determination method, as defined in the CAM rule.
- An emission cap that meets the requirements specified in 40 CFR 70.4(b)(12).

C. The PSEU uses an add-on control device to achieve compliance with an emission limitation or standard;

D. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than major source threshold levels; and

The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

5) BACKGROUND DATA AND INFORMATION

COMPLETE THE FOLLOWING TABLE FOR ALL PSEUS THAT NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. THIS SECTION IS TO BE USED TO PROVIDE BACKGROUND DATA AND INFORMATION FOR EACH IN ORDER TO SUPPLEMENT THE SUBMITTAL REQUIREMENTS SPECIFIED IN 40 CFR 64.4. IF ADDITIONAL SPACE IS NEEDED, ATTACH.

PSEU Designation	Description	Pollutant	Control Device	[a] Emission Limitation Or Standard	[B] Monitoring Requirement
5210	CONTINUOUS DIGESTER	TRS	2605 OR 3705	≤ 5 PPMV @ 10% O2 (DRY BASIS)	FLAME FAILURE SYSTEM BYPASS VENTS
5220	TURPENTINE RECOVERY SYSTEM	TRS	2605 OR 3705	≤ 5 PPMV @ 10% O2 (DRY BASIS)	FLAME FAILURE SYSTEM BYPASS VENTS
9700	STARCH SILOS	PM	B-2000	≤ 41.57 LB/HR	VE
2505	NO. 2 RECOVERY FURNACE	PM	2505C	≤ 2.75 LB/T EADTUBP 0.044 GR/DSCF @ 8% O2	COMS
2510	NO. 2 SMELT TANK	PM	2510C	≤ 2.75 LB/T EADTUBP ≤ 0.2 LB/T BLS	SCRUBBER LIQUID FLOW AND SCRUBBER PRESSURE DROP
5105	NO. 3 RECOVERY FURNACE	PM	5105C	≤ 0.044 GR/DSCF @ 8% O2 ≤ 0.025 GR/DSCF @ 8% O2 ≤ 237 TPY	COMS
5110	NO. 3 SMELT TANK	PM	5110C	≤ 1.0 LB/T EADTUBP ≤ 0.2 LB/T BLS	SCRUBBER LIQUID FLOW AND SCRUBBER PRESSURE DROP
2723	07 CHEMICAL RECOVERY - NO. 2 LIME KILN	PM/PM10	2723C	≤ 0.13 GR/DSCF @ 10% O2 (OIL) ≤ 0.067 GR/DSCF @ 10% O2 (GAS) ≤ 0.064 GR/DSCF @ 10% O2 ≤ 0.030 GR/DSCF @ 10% O2 ≤ 123 TPY	COMS
2700 2701	CAUSTICIZER NO.4 AND SLAKER	PM	2725C	≤ 35.34 LB/HR	SCRUBBER LIQUID FLOW
2702	PURCHASED LIME SILO	PM	2726C	≤ 35.34 LB/HR	VE
2703	REBURNED LIME SILO	PM	2726C	≤ 25.16 LB/HR	VE
2400	NO. 1 EVAPORATOR SET	TRS	2605 OR 3705	≤ 5 PPMV @ 10% O2 (DRY BASIS)	FLAME FAILURE SYSTEM BYPASS VENTS
2500	NO. 2 EVAPORATOR SET	TRS	2605 OR 3705	≤ 5 PPMV @ 10% O2 (DRY BASIS)	FLAME FAILURE SYSTEM BYPAS VENTS
5100	NO. 3 EVAPORATOR SET	TRS	2605 OR 3705	≤ 5 PPMV @ 10% O2 (DRY BASIS)	FLAME FAILURE SYSTEM BYPAS VENTS
2605	NO. 1 COMBINATION BOILER	PM	2605C 2605C1	≤ 0.6 LB/MMBTU	COMS
3705	NO. 2 COMBINATION BOILER	PM	3705C 3705C1	≤ 0.6 LB/MMBTU	COMS
2605	NO. 1 COMBINATION BOILER	TRS	2605	≥ 1200°F AND 0.5 SEC.	FLAME FAILURE SYSTEM BYPASS VENTS
3705	NO. 2 COMBINATION BOILER	TRS	3705	≥ 1200°F AND 0.5 SEC.	FLAME FAILURE SYSTEM BYPASS VENTS
9801	CONDENSATE STEAM STRIPPER	TRS	2605 OR 3705	≤ 5 PPMV @ 10% O2 (DRY BASIS)	FLAME FAILURE SYSTEM BYPAS VENTS

[a] Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance. Examples of emission limitation or standards may include permitted emission limitation (permit), applicable regulations, work practices, process or control device parameters, or other forms of specific design, equipment, operational, or operational and maintenance requirements.

[B] Indicate the monitoring requirements for the control device that are required by an applicable regulation or permit condition.

[a] CAM Monitoring Approach Criteria

Complete this section for EACH PSEU that needs to be addressed in this CAM Plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR 64.3 and 64.4 if more than two indicators are being selected for a PSEU or if additional space is needed, attach and label as with the appropriate PSEU designation, pollutant, and indicator Nos.

6a) PSEU Designation:	6b) Pollutant:	6c) [b] Indicator No. 1:	6d) [b] Indicator No. 2:
7a) General Criteria Describe the monitoring approach used to measure the indicators.	See CAM Attachments	See CAM Attachments	See CAM Attachments
[c] Establish the appropriate indicator range or the procedures for establishing the indicator range which provides a reasonable assurance of compliance (Also address excursions and corrective action):	See CAM Attachments	See CAM Attachments	See CAM Attachments
[d] Provide Quality Improvement Plan (QIP) Threshold levels:	See CAM Attachments	See CAM Attachments	See CAM Attachments
7b) Performance Criteria Provide the Specification for Obtaining Representative Data. Such as detector location and installation specifications:	See CAM Attachments	See CAM Attachments	See CAM Attachments
Provide Verification Procedures, including manufacturer's recommendations To Confirm The Operational Status of the monitoring.	See CAM Attachments	See CAM Attachments	See CAM Attachments
Provide Quality Assurance and Quality Control (QA/QC) Practices that are adequate to ensure the continuing validity of the data, considering manufacturer's recommendations:	See CAM Attachments	See CAM Attachments	See CAM Attachments
[e] Provide the Monitoring Frequency:	See CAM Attachments	See CAM Attachments	See CAM Attachments
Provide the Data Collection Procedures that will be used:	See CAM Attachments	See CAM Attachments	See CAM Attachments
Provide the Data Averaging Period for the purpose of determining whether an excursion or exceedance has occurred:	See CAM Attachments	See CAM Attachments	See CAM Attachments

[a] If Continuous Emission Monitoring System (CEMS), Continuous Opacity Monitoring (COMS), or Predictive Emission Monitoring System (PEMS) are used, then this section need not be completed **ONLY** for the CEMS, COMS, or PEMS, except that the special criteria information of 40 CFR 64.3(d) must be provided.

[b] Describe all indicators to be monitored which satisfies 40 CFR 64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emission (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

[C] Indicator ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator.

[d] The QIP threshold level is a level at which the total duration of excursions or exceedances at the PSEU is greater than 5% of the PSEU's total operating time during the reporting period. (Example: 5 of 90 operating days were outside the indicator range during the reporting period.)

[e] At a minimum, large PSEU's must collect four or more data values equally spaced over each hour and those values averaged. All other PSEU's must collect data at least once per 24-hour period.

RATIONALE AND JUSTIFICATION

8a) PSEU Designation:	See 2004 CAM submittal and Title V CAM monitoring requirements (Attachment H)	8b) Pollutant:	See 2004 CAM submittal and Title V CAM monitoring requirements (Attachment H)

9) INDICATORS AND THE MONITORING APPROACH: Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rational and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed and the manufacturer's recommendations. (If additional space is needed, attach and label with the appropriate PSEU designation and pollutant):

See CAM Attachments

10) INDICATOR RANGES: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how **EACH** indicator range was selected by either a Compliance Performance Test, a Test Plan and Schedule, or by Engineering Assessments. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall **include** a summary of the compliance or performance test results that was used to determine the indicator range and documentation indication that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.
- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale an justification shall **include** the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practical after approval of this CAM Plan, but in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.
- ENGINEERING ASSESSMENTS (Indicator ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturer's design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall **include** documentation demonstrating that compliance testing is not required to establish the indicator range.

Rationale and Justification:

See CAM Attachments

Mail Completed Application to:
Engineering Services Division, Bureau of Air Quality
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

CAM Attachment 1

Title V Operating Permit TV-2440-0005 Attachment H

Summary of 40 CFR Part 64 Compliance Assurance Monitoring (CAM) Requirements

Table H-1 Pollution Control Equipment Parameter Ranges

Unit ID	Equip. No.	Control Device No.	Pollutant	Applicable Requirement	Ranges		Range Basis
06	9700	B-2000	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Fresh Lime Pneumatic Lime Unloading Baghouse) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Visual emissions	**= 0**	
07	2723	2723S2	PM	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB SC 61-62.2, Sec. II(E)	**CAM Indicator Range(s)**: (No. 2 Lime Kiln ESP) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Based on MACT MM requirements
					• Opacity [average of ten (10) consecutive six-minute (6-min.) averages]	**≤ 20**	
07	2505	2505C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (No. 2 Recovery Furnace ESP) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Based on MACT MM requirements
					• Opacity [average of ten (10) consecutive six-minute (6-min.) averages]	**≤ 20**	
07	5105	5105C	PM	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: (No. 3 Recovery Furnace ESP) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Based on MACT MM requirements
					• Opacity [average of ten (10) consecutive six-minute (6-min.) averages]	**≤ 20**	
07	5105	5105C	PM	SC Reg. 61-62.5, Std. 7	**CAM Indicator Range(s)**: (No. 3 Recovery Furnace ESP) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Test Data
					• Opacity [3-hour block average of six-minute (6-min.) averages]	**≤ 16**	
07	2510 5510	2511C	PM	2510: SC Reg. 61-62.5, Std. 4 5110: SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.5, Std. 7 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: (No. 2 and Smelt Tank Scrubber) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Test Data
					• Scrubbing liquid flow:	**≥ 65 gpm**	
					• Scrubber pressure drop:	**≥ 1.5 in H_2O**	

Table H-1 Pollution Control Equipment Parameter Ranges							
Unit ID	**Equip. No.**	**Control Device No.**	**Pollutant**	**Applicable Requirement**	**Ranges**		**Range Basis**
07	2701	2725C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Slaker venturi caustic Scrubber) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Test Data
					• Scrubbing liquid flow:	**≥ 10 gpm**	
07	2702	2726C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Purchased lime silo bag house) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Visual emissions	**= 0**	
07	2703	2724C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Reburned lime silo bag house) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Visual emissions	**= 0**	
08	2605	2605C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (No. 1 Combination Boiler ESP) {MACT DDDDD Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):	To be determined with Boiler MACT Subpart DDDDD requirements	• Based on MACT DDDDD requirements
					• Opacity or ESP parameters		
08	2605	2605	TRS	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: (No. 1 Combination Boiler) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Venting:	**= 0**	
08	3705	3705C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (No. 2 Combination Boiler ESP) {MACT DDDDD Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):	To be determined with Boiler MACT Subpart DDDDD requirements	• Based on MACT DDDDD requirements
					• Opacity or ESP parameters		
08	3705	3705	TRS	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: No. 2 Combination Boiler) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Venting:	**= 0**	

Compliance Assurance Monitoring (CAM) Attachment 2
Indicator Parameter(s) and Range(s)
No. 3 Recovery Furnace
BACT PM Emission Limitation (0.025 gr/dscf)

Title V Operating Permit No. TV-2440-0005, Condition 07.6, requires establishing CAM indicator parameter(s) and accompanying indicator range(s) to assure reasonable compliance with the BACT emission limitation for Particulate Matter (PM) from the No. 3 Recovery Furnace (0.025 gr/dscf @ 8% O_2). The CAM indicator parameter(s) and indicator range(s) are to be derived from data demonstrating compliance with the BACT emission limit.

Bowater has selected 6-minute opacity as the CAM indicator parameter. The most recent compliance test, conducted on July 30, 2008, has been selected for review and establishment of the CAM indicator range. A summary of the relevant information from this test is provided in Attachment A.

The average PM concentration measured during the compliance test was 0.018 gr/dscf @ 8% O_2, and the corresponding average 6-minute opacity measured over the test period was 13%. The BACT emission limit is 0.025 gr/dscf @ 8% O_2, yielding an equivalent 6-minute opacity of 18% (13% × {0.025 ÷ 0.018}). EPA recommends a compliance margin of 10 percent when determining CAM indicator ranges. Applying the EPA recommended 10% compliance margin (i.e., 90 % of the emission limit) to the 13% opacity during the test yields a CAM indicator range of 16% opacity (13% × {[0.025 × 0.90] ÷ 0.018}).

This information is derived from an approved source test for PM conducted on July 30, 2008. Bowater believes this to be the most representative of current operations. Therefore, Bowater requests the six-minute opacity of 16% as the CAM indicator range, averaged over a three-hour block average, the same period as the compliance test upon which it is based.

Compliance Assurance Monitoring Submittal

Prepared For:

Bowater Coated and Specialty Papers Division
Catawba, South Carolina

March 2004

Prepared By:

URS
Greenville, South Carolina

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1.0 Introduction

Bowater Coated Paper Division (Bowater) operates a paper mill located at 5300 Cureton Ferry Road in Catawba, South Carolina. The facility currently holds a Title V operating permit (permit number 2440-0005) originally issued on August 21, 2001 by the South Carolina Department of Health and Environmental Control (SCDHEC). The original Title V operating permit expires on September 30, 2004, and a Title V operating permit renewal application is required to be submitted no later than March 31, 2004.

A copy of the current permit, with proposed revisions to incorporate Compliance Assurance Monitoring (CAM) and 40 CFR Part 63, Subpart MM (Pulp and Paper MACT II) requirements, is provided in Attachment A. All permit terms and conditions referenced in this CAM plan refer to the renumbered Title V permit conditions in Attachment A.

As part of the Title V operating permit renewal application, facilities are required to address the requirements of 40 CFR Part 64, the CAM Rule. The CAM rule applies to each emission unit at a facility that meets the following criteria:

- the emission unit has an emission limit or standard for a regulated pollutant, and
- the emission unit uses a control device to meet the emission limit or standard, and
- the potential pre-control device emissions from the emission unit exceed the Title V major source threshold.

2.0 Applicability

The Bowater facility consists of twenty-six permitted emission units. Of these, fourteen use control devices to achieve compliance with emission limits in the current Title V operating permit. The table below summarizes the emission units, control devices, and regulated pollutants that are controlled at the facility.

Emission Unit	Process Description	Regulated Control Device(s)	Regulated Pollutant(s) Controlled	Part 63 Exempt Pollutants	Non-Exempt Pollutant(s) Exceeding Threshold	Is CAM Required
01	Woodyard	None	N/A	N/A	N/A	No
02	*Kraft Pulp Mill*	*Combination Boilers*	*TRS, HAP*	*HAP*	*TRS*	*Yes*
03	Kraft Bleach Plant	Scrubber	HAP	HAP	None	No
04	Chlorine Dioxide Plant	Scrubber	None	N/A	N/A	No
05	Thermo-mechanical Pulping System	None	N/A	N/A	N/A	No
06	Paper Machine 1 & Coater	None	N/A	N/A	N/A	No
07	Paper Machine 2 & Coater	None	N/A	N/A	N/A	No
08	Paper Machine 3 & Coater	None	N/A	N/A	N/A	No
09	Pulp Dryer	None	N/A	N/A	N/A	No
10	Air Make-up Units	None	N/A	N/A	N/A	No
11	*Starch System (Silos)*	*Baghouses*	*PM*	*None*	*PM*	*Yes*
12	Recovery Furnace 2	ESP	PM, HAP	PM, HAP	None	No
13	*Smelt Dissolving Tank 2*	*Scrubber*	*PM, HAP, TRS*	*PM, HAP*	*PM, TRS*	*Yes*
14	Recovery Furnace 3	ESP	PM, HAP	PM, HAP	None	No
15	*Smelt Dissolving Tank 3*	*Scrubber*	*PM, HAP, TRS*	*PM, HAP*	*PM, TRS*	*Yes*
16	Lime Kiln 2	ESP	PM, HAP	PM, HAP	None	No
17	*Causticizing (Slaker and Lime Silos)*	*Scrubber, Baghouses*	*PM*	*None*	*PM*	*Yes*
18	*Evaporator System*	*Combination Boilers*	*TRS, HAP*	*HAP*	*TRS*	*Yes*
19	Precipitator Mix Tanks	None	N/A	N/A	N/A	No
20	Power Boiler	None	N/A	N/A	N/A	No
21	*Combination Boiler 1*	*ESP*	*PM, HAP*	*None*	*PM, HAP*	*Yes*
22	*Combination Boiler 2*	*ESP*	*PM, HAP*	*None*	*PM, HAP*	*Yes*
23	*Condensate System*	*Combination Boilers*	*TRS, HAP*	*HAP*	*TRS*	*Yes*
24	Waste Treatment	None	N/A	N/A	N/A	No
25	Storage Tanks	None	N/A	N/A	N/A	No
26	Miscellaneous	None	N/A	N/A	N/A	No

Bowater operates several cyclones as process equipment in the woodyard pneumatic conveying system. Since these cyclones separate the motivating air from the wood chips, they are not considered control devices and have not been addressed in this submittal.

The combination boilers are also equipped with mechanical dust collectors (cyclones). The mechanical dust collectors are designed primarily to collect larger particles (such as char and cinders) for re-injection into the boiler, and to prevent damage by large particulate to the induced draft fans located downstream of the collectors. Since the primary purpose of the mechanical dust collectors is to remove large particulate from the flue gas, and they have a low removal efficiency for small particulate, they have not been addressed in this submittal.

The kraft mill low volume high concentration (LVHC) gas collection system includes a TRS scrubber prior to introducing LVHC gases into combination boiler No. 1 or No. 2. The TRS scrubber is not required to comply with the applicable NSPS Subpart BB TRS control

requirement [§60.283(a)(1)(iii) - minimum temperature of 1200 F for at least 0.5 second], and has not been addressed in this submittal.

3.0 Kraft Pulp Mill (No. 1 and No. 2 Combination Boilers)

3.1 Background

3.1.1 Emission Unit Identification

The kraft pulp mill (emission unit ID 02) is controlled using the No. 1 and No. 2 Combination Boilers.

3.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The kraft pulping system is subject to 40 CFR Part 60, Subpart BB, Standards of Performance for Kraft Pulp Mills (NSPS Subpart BB). NSPS Subpart BB sets emission limits for total reduced sulfur (TRS) compounds. The No. 1 and No. 2 combination boilers are used to destroy TRS compounds from the kraft pulp mill and comply with §60.283(a)(1)(iii).

The NSPS requires continuous temperature monitoring, however Title V Operating Permit Conditions 6.B.ID21.07 and 6.B.ID22.07 require operation of the flame failure system as alternative monitoring parameters approved pursuant to §60.13(h)(I)(1).

3.1.3 Control Technology Description

The combination boilers are designed to convert TRS compounds into sulfur dioxide.

3.2 Monitoring Approach

3.2.1 General Criteria

3.2.1.1 Performance Indicator(s)

The Title V Operating Permit requires monitoring the flame failure system as the performance indicators for the combination boilers.

3.2.1.2 Indicator Range(s) or Designated Condition(s)

The operation of the flame failure system is currently reported to SCDHEC on a quarterly basis. The indicator range has been established based on the historical values reported to

SCDHEC. The positive operation of the flame failure system indicates the presence of flame in the appropriate combination boiler whenever TRS gases are being generated by the kraft pulp mill.

3.2.2 Performance Criteria

3.2.2.1 Data Representativeness

The flame failure system uses infrared sensors to determine the presence or absence of flame (combustion) in the combination boilers. The sensors for determining flame presence are located within the firebox.

3.2.2.2 Verification of Operational Status

This requirement does not apply to the No. 1 and No. 2 combination boilers since all equipment already exists.

3.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the kraft pulp mill is operating. These activities include a visual inspection of the combination boiler for obvious signs of leaks or malfunctions and verifying the TRS gases are being collected and routed to the operating combination boiler.

Quality control activities include inspection of the flame failure system igniters and burners during planned maintenance periods when the boilers are in a cold shut-down, and repairs if necessary.

3.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled TRS emissions from the kraft mill are less than 1 ton per year, which is less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily. However, Title V Operating Permit Conditions 6.B.ID21.07 and 6.B.ID22.07 require the flame failure system to be monitored and recorded continuously.

The facility DCS automatically collects and records the operation of the flame failure system continuously. Periods when the boiler generates less than 50,000 pounds per hour of steam are considered startup/shutdown periods. In addition, monitor downtime of up to ten-percent

due to malfunctions is possible during a quarterly reporting period for the flame failure system, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989). Periods of monitor downtime due to malfunctions are reported to SCDHEC on quarterly basis.

3.3 Justification

3.3.1 Monitoring Approach and Indicator

The facility has operated the flame failure system since 1987. The use of combination boilers is an effective means of controlling TRS emissions from kraft pulp mills, and is used at many pulp and paper facilities mills throughout the United States.

Boilers are common control devices for gaseous emissions in numerous industries. In many MACT standards, no monitoring of boiler operation is required if the heat input to the boiler is greater than 150 million British Thermal Units per hour (MMBtu/hr).

3.3.2 Indicator Range(s)

The selected indicator range is positive operation of the flame failure system.

4.0 Starch System Silos (Baghouses)

4.1 Background

4.1.1 Emission Unit Identification

The starch system silos (Emission Unit ID 11) use baghouses to control emissions of particulate matter (PM).

4.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The starch silos are regulated by South Carolina Regulation 61-62.5, Standard No. 4, Sections VIII and IX. Standard No. 4 establishes a particulate emission limit of 45.26 lb/hr, and an opacity limit of 40%. Title V Operating Permit Condition 6.B.Gen.08 requires daily visual emission inspections (VE).

4.1.3 Control Technology Description

The starch silos use baghouses designed to remove PM from the gas stream.

4.2 Monitoring Approach

4.2.1 General Criteria

4.2.1.1 Performance Indicator(s)

The Title V Operating Permit requires monitoring daily VE as the performance indicator for the baghouses.

4.2.1.2 Indicator Range(s) or Designated Condition(s)

Any abnormal VE observations for the baghouses are reported to SCDHEC on a semi-annual basis. Compliance testing is not required per Title V Operating permit condition 5.E.Gen.06.

The indicator range has been established based on the historical values reported to SCDHEC, from semi-annual reports. The daily VE should be no abnormal emissions, per Title V Operating Condition 6.B.Gen.08.

4.2.2 Performance Criteria

4.2.2.1 Data Representativeness

As stated in the USEPA *Technical Guidance Document: Compliance Assurance Monitoring (August 1998)*, opacity is the typical method used for baghouse performance monitoring, either by continuous monitoring or visual emissions observations (Appendix B, Section B.1). Following Title V operating Permit condition 6.B.Gen.08, a qualitative observation of opacity during daylight hours is made, noting color, duration, density (heavy or light) and cause and corrective action taken for any abnormal emissions.

4.2.2.2 Verification of Operational Status

This requirement does not apply to the starch silos since all equipment already exists.

4.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the starch silos are operating. These activities include a visual observation of the baghouse exhaust to determine if the opacity is abnormal.

Quality control activities include inspection of the collection bags in accordance with manufacturers instructions when abnormal VE are observed, and replacement when necessary.

4.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM emissions from the baghouses are approximately 5 tons per year, which is less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily.

Title V Operating Permit Condition 6.B.Gen.08 requires the visual emissions be inspected and recorded once daily. On days when the source is not in operation, the daily inspection will indicate the source is not operating.

4.3 Justification

4.3.1 Monitoring Approach and Indicator

As stated in the USEPA *Technical Guidance Document: Compliance Assurance Monitoring (August 1998)*, opacity is the typical method used for baghouse performance monitoring, either by continuous monitoring or visual emissions observations (Appendix B, Section B.1). Following Title V operating Permit condition 6.B.Gen.08, a qualitative observation of opacity during daylight hours is made, noting color, duration, density (heavy or light) and cause and corrective action taken for any abnormal emissions.

4.3.2 Indicator Range(s)

The indicator range established in the Title V operating Permit is any abnormal emissions (condition 6.B.Gen.08).

5.0 Evaporator System (No. 1 and No. 2 Combination Boilers)

5.1 Background

5.1.1 Emission Unit Identification

The evaporator system (emission unit ID 18) is controlled using the No. 1 and No. 2 Combination Boilers.

5.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The evaporator system is subject to 40 CFR Part 60, Subpart BB, Standards of Performance for Kraft Pulp Mills (NSPS Subpart BB). NSPS Subpart BB sets emission limits for total reduced sulfur (TRS) compounds. The No. 1 and No. 2 combination boilers are used to destroy TRS compounds from the evaporator system and comply with §60.283(a)(1)(iii).

The NSPS requires continuous temperature monitoring, however Title V Operating Permit Conditions 6.B.ID21.07 and 6.B.ID22.07 require operation of the flame failure system as alternative monitoring parameters approved pursuant to §60.13(h)(I)(1).

5.1.3 Control Technology Description

The combination boilers are designed to convert TRS compounds into sulfur dioxide.

5.2 Monitoring Approach

5.2.1 General Criteria

5.2.1.1 Performance Indicator(s)

The Title V Operating Permit requires monitoring the flame failure system as the performance indicators for the combination boilers.

5.2.1.2 Indicator Range(s) or Designated Condition(s)

The operation of the flame failure system is currently reported to SCDHEC on a quarterly basis. The indicator range has been established based on the historical values reported to

SCDHEC. The positive operation of the flame failure system indicates the presence of flame in the appropriate combination boiler whenever TRS gases are being generated by the evaporator system.

5.2.2 Performance Criteria

5.2.2.1 Data Representativeness

The flame failure system uses infrared sensors to determine the presence or absence of flame (combustion) in the combination boilers. The sensors for determining flame presence are located within the firebox.

5.2.2.2 Verification of Operational Status

This requirement does not apply to the No. 1 and No. 2 combination boilers since all equipment already exists.

5.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the evaporator system is operating. These activities include a visual inspection of the combination boiler for obvious signs of leaks or malfunctions and verifying the TRS gases are being collected and routed to the operating combination boiler.

Quality control activities include inspection of the flame failure system igniters and burners during planned maintenance periods when the boilers are in a cold shut-down, and repairs if necessary.

5.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled TRS emissions from the evaporator system are less than 1 ton per year, which is less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily. However, Title V Operating Permit Conditions 6.B.ID21.07 and 6.B.ID22.07 require the flame failure system to be monitored and recorded continuously.

The facility DCS automatically collects and records the operation of the flame failure system continuously. Periods when the boiler generates less than 50,000 pounds per hour of steam are considered startup/shutdown periods. In addition, monitor downtime of up to ten-percent

due to malfunctions is possible during a quarterly reporting period for the flame failure system, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989). Periods of monitor downtime due to malfunctions are reported to SCDHEC on quarterly basis.

5.3 Justification

5.3.2 Monitoring Approach and Indicator

The facility has operated the flame failure system since 1987. The use of combination boilers is an effective means of controlling TRS emissions from evaporator systems, and is used at many pulp and paper facilities mills throughout the United States.

Boilers are common control devices for gaseous emissions in numerous industries. In many MACT standards, no monitoring of boiler operation is required if the heat input to the boiler is greater than 150 million British Thermal Units per hour (MMBtu/hr).

5.3.3 Indicator Range(s)

The selected indicator range is positive operation of the flame failure system.

6.0 No. 2 Smelt Dissolving Tank (Scrubber)

6.1 Background

6.1.1 Emission Unit Identification

The No. 2 smelt dissolving tank (emission unit ID 13) is controlled using a scrubber that also serves the No. 3 smelt dissolving tank.

6.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The No. 2 smelt dissolving tank is subject to South Carolina Regulation 61-62.5, Standard 4, Sections III and XI. Standard 4 sets emission limits for particulate matter (PM) and total reduced sulfur (TRS) compounds. The scrubber is used to remove PM and TRS from the exhaust stream and comply with Standard 4.

Standard 4 sets emission limits for PM and TRS of 1.0 lb/ton black liquor solids and 0.033 lb/ton black liquor solids (as H_2S), respectively. Standard 4 requires continuous monitoring of the pressure loss of the gas stream (pressure drop) across the scrubber and the scrubbing liquid supply pressure.

It should also be noted that the No. 2 smelt dissolving tank is also subject to 40 CFR Part 63, Subpart MM, National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills (MACT Subpart MM). This standard establishes emission limitations for PM (0.2 lb/ton black liquor solids) as a surrogate for metal hazardous air pollutants (HAPs). MACT Subpart MM requires monitoring of pressure drop and scrubbing liquid flow rate for scrubbers (§63.864(e)(10)).

6.1.3 Control Technology Description

The No. 2 smelt dissolving tank scrubber is a venturi scrubber designed to remove PM and TRS from the gas stream.

6.2 Monitoring Approach

6.2.1 General Criteria

6.2.1.1 Performance Indicator(s)

Standard 4 requires monitoring pressure drop and scrubbing liquid supply pressure, and the MACT standard requires monitoring pressure drop and scrubbing liquid flow rate.

6.2.1.2 Indicator Range(s) or Designated Condition(s)

Any deviations of the scrubber differential pressure, scrubbing liquid flow, and scrubbing liquid pressure are reported to SCDHEC on a semi-annual basis. These values are also recorded during each compliance test for particulate matter and TRS, and included in the stack test reports submitted to SCDHEC.

The shift average scrubber differential pressure should be a minimum of 1.5 inches water column. The shift average scrubbing liquid flow should be a minimum of 65 gallons per minute. The shift average scrubbing liquid pressure should be a minimum of 45 pounds per square inch.

The indicator ranges will be re-established based on the values reported to SCDHEC from the MACT II initial compliance demonstration, historical stack testing reports, and manufacturer recommendations in accordance with §63.864(j).

6.2.2 Performance Criteria

6.2.2.1 Data Representativeness

The pressure taps for measuring pressure drop are located just prior to the scrubber ID fan and between the outlet of the scrubber and the blower. The pressure sensors are certified by the manufacturer to be accurate within ±2 inches of water gauge pressure, as required by Standard 4 and §63.864(e)(10)(i).

The scrubber liquid pressure is measured using a pressure sensor on the line feeding the venturi throat. The pressure sensor is certified by the manufacturer to be accurate within ±15 percent of design pressure, as required by Standard 4.

The scrubber liquid flow is measured using a flow meter on the line feeding the venturi throat. The flow meter is certified by the manufacturer to be accurate within ±5 percent of the design scrubbing liquid flow rate, as required by §63.864(e)(10)(ii).

6.2.2.2 Verification of Operational Status

This requirement does not apply to the venturi scrubber since all equipment already exists.

6.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the smelt tank is operating. These activities include a visual inspection of the scrubber for obvious signs of leaks or malfunctions, verifying the scrubber liquid is flowing, and determining if the inlet and outlet pressure taps need cleaning.

Quality control activities include inspection of the pressure sensors and flow meter semi-annually in accordance with manufacturer's instructions, and repair or replacement as necessary.

6.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM and TRS emissions from the scrubber are approximately 41 and 7 tons per year, respectively. Since PM is less than the major source threshold of 100 tons per year, the CAM Rule requires monitoring to be performed a minimum of once daily.

The facility DCS automatically collects and records all required parameters. The DCS collects scrubber pressure differential pressure, scrubber liquid flow, and scrubber liquid pressure continuously. The DCS then averages the readings every shift.

A monitor downtime of up to ten-percent due to malfunctions is possible during a quarterly reporting period for the pressure drop sensors, flow meters, and the DCS system, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989). Periods of monitor downtime due to malfunctions are reported to SCDHEC on quarterly basis.

6.3 Justification

6.3.1 Monitoring Approach and Indicator

The facility has operated the No. 2 smelt dissolving tank scrubber since 1983. The use of venturi scrubbers is an effective means of controlling particulate emissions from smelt dissolving tanks. These types of scrubbers are also appropriate for capturing TRS gases that may be potentially emitted during processing.

Scrubbers are common PM control devices listed in many New Source Performance Standards (NSPS). It is very common for pressure drop across the scrubber and scrubbing liquid flow to be listed in the NSPS as parameters requiring monitoring as an indication of proper scrubber operation.

It should also be noted that the No. 2 smelt dissolving tank is also subject to 40 CFR Part 63, Subpart MM, National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills (MACT Subpart MM). MACT Subpart MM requires monitoring of pressure drop and scrubbing liquid flow rate for scrubbers (§63.864(e)(10)).

6.3.2 Indicator Range(s)

The selected indicator ranges are a shift average minimum differential pressure of 1.5 inches of water, a shift average minimum scrubbing liquid flow of 65 gallons per minute, and a shift average minimum scrubbing liquid pressure of 45 psi.

The indicator ranges will be re-established based on the values reported to SCDHEC from the MACT II initial compliance demonstration, historical stack testing reports, and manufacturer recommendations in accordance with §63.864(j).

7.0 No. 3 Smelt Dissolving Tank (Scrubber)

7.1 Background

7.1.1 Emission Unit Identification

The No. 3 smelt dissolving tank (emission unit ID 15) is controlled using a scrubber that also serves the No. 2 smelt dissolving tank.

7.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The No. 3 smelt dissolving tank is subject to 40 CFR Part 60, Subpart BB, Standards of Performance for Kraft Pulp Mills (NSPS Subpart BB). NSPS Subpart BB sets emission limits for particulate matter (PM) and total reduced sulfur (TRS) compounds. The scrubber is used to remove PM and TRS from the exhaust stream and comply with §60.282(a)(2) and §60.283(a)(4).

NSPS Subpart Db sets emission limits for PM and TRS of 0.2 lb/ton black liquor solids and 0.033 lb/ton black liquor solids (as H_2S), respectively. The NSPS requires continuous monitoring of the pressure loss of the gas stream (pressure drop) across the scrubber and the scrubbing liquid supply pressure (§60.284(b)(2)).

It should also be noted that the No. 3 smelt dissolving tank is also subject to 40 CFR Part 63, Subpart MM, National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills (MACT Subpart MM). This standard establishes emission limitations for PM (0.2 lb/ton black liquor solids) as a surrogate for metal hazardous air pollutants (HAPs). MACT Subpart MM requires monitoring of pressure drop and scrubbing liquid flow rate for scrubbers (§63.864(e)(10)).

7.1.3 Control Technology Description

The No. 3 smelt dissolving tank scrubber is a venturi scrubber designed to remove PM and TRS from the gas stream.

7.2 Monitoring Approach

7.2.1 General Criteria

7.2.1.1 Performance Indicator(s)

The NSPS standard requires monitoring pressure drop and scrubbing liquid supply pressure, and the MACT standard requires monitoring pressure drop and scrubbing liquid flow rate.

7.2.1.2 Indicator Range(s) or Designated Condition(s)

Any deviations of the scrubber differential pressure, scrubbing liquid flow, and scrubbing liquid pressure are reported to SCDHEC on a semi-annual basis. These values are also recorded during each compliance test for particulate matter and TRS, and included in the stack test reports submitted to SCDHEC.

The shift average scrubber differential pressure should be a minimum of 1.5 inches water column. The shift average scrubbing liquid flow should be a minimum of 65 gallons per minute. The shift average scrubbing liquid pressure should be a minimum of 45 pounds per square inch.

The indicator ranges will be re-established based on the values reported to SCDHEC from the MACT II initial compliance demonstration, historical stack testing reports, and manufacturer recommendations in accordance with §63.864(j).

7.2.2 Performance Criteria

7.2.2.1 Data Representativeness

The pressure taps for measuring pressure drop are located just prior to the scrubber ID fan and between the outlet of the scrubber and the blower. The pressure sensors are certified by the manufacturer to be accurate within ±2 inches of water gauge pressure, as required by §60.284(b)(2)(i) and §63.864(e)(10)(i).

The scrubber liquid pressure is measured using a pressure sensor on the line feeding the venturi throat. The pressure sensor is certified by the manufacturer to be accurate within ±15 percent of design pressure, as required by §60.284(b)(2)(ii).

The scrubber liquid flow is measured using a flow meter on the line feeding the venturi throat. The flow meter is certified by the manufacturer to be accurate within ±5 percent of the design scrubbing liquid flow rate, as required by §63.864(e)(10)(ii).

7.2.2.2 Verification of Operational Status

This requirement does not apply to the venturi scrubber since all equipment already exists.

7.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the smelt tank is operating. These activities include a visual inspection of the scrubber for obvious signs of leaks or malfunctions, verifying the scrubber liquid is flowing, and determining if the inlet and outlet pressure taps need cleaning.

Quality control activities include inspection of the pressure sensors and flow meter semi-annually in accordance with manufacturer's instructions, and repair or replacement as necessary.

7.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM and TRS emissions from the scrubber are approximately 61 and 10 tons per year, respectively, which are less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily.

The facility DCS automatically collects and records all required parameters. The DCS collects scrubber pressure differential pressure, scrubber liquid flow, and scrubber liquid pressure continuously. The DCS then averages the readings every shift.

A monitor downtime of up to ten-percent due to malfunctions is possible during a quarterly reporting period for the pressure drop sensors, flow meters, and the DCS system, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989). Periods of monitor downtime due to malfunctions are reported to SCDHEC on quarterly basis.

7.3 Justification

7.3.1 Monitoring Approach and Indicator

The facility has operated the No. 3 smelt dissolving tank scrubber since 1983. The use of venturi scrubbers is an effective means of controlling particulate emissions from smelt dissolving tanks. These types of scrubbers are also appropriate for capturing TRS gases that may be potentially emitted during processing.

Scrubbers are common PM control devices listed in many New Source Performance Standards (NSPS). It is very common for pressure drop across the scrubber and scrubbing liquid flow to be listed in the NSPS as parameters requiring monitoring as an indication of proper scrubber operation.

It should also be noted that the No. 3 smelt dissolving tank is also subject to 40 CFR Part 63, Subpart MM, National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills (MACT Subpart MM). MACT Subpart MM requires monitoring of pressure drop and scrubbing liquid flow rate for scrubbers (§63.864(e)(10)).

7.3.2 Indicator Range(s)

The selected indicator ranges are a shift average minimum differential pressure of 1.5 inches of water, a shift average minimum scrubbing liquid flow of 65 gallons per minute, and a shift average minimum scrubbing liquid pressure of 45 psi.

The indicator ranges will be re-established based on the values reported to SCDHEC from the MACT II initial compliance demonstration, historical stack testing reports, and manufacturer recommendations in accordance with §63.864(j).

8.0 Causticizing Slaker (Scrubber)

8.1 Background

8.1.1 Emission Unit Identification

The causticizing slaker (Emission Unit ID 17) is controlled using a venturi scrubber.

8.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The venturi scrubber serves the slaker, which is subject to South Carolina Regulation 61-62.5, Standard 4, Sections VIII and IX. Standard 4 sets emission limits for particulate matter and opacity. Section VIII establishes a particulate emission limit of 29.9 lb/hr. Opacity is limited to 20% (6-minute average) by Section IX.

Title V Operating Permit Condition 6.B.Gen.06c requires monitoring scrubbing liquid flow rate.

8.1.3 Control Technology Description

The slaker scrubber is a venturi scrubber designed to remove PM from the gas stream.

8.2 Monitoring Approach

8.2.1 General Criteria

8.2.1.1 Performance Indicator(s)

The Title V Operating Permit requires monitoring scrubbing liquid flow as the performance indicators for the venturi scrubber (Condition 6.B.Gen.06c).

8.2.1.2 Indicator Range(s) or Designated Condition(s)

Any deviations of the venturi scrubber scrubbing liquid flow are currently reported to SCDHEC on a semi-annual basis.

The indicator ranges have been established based on the historical values. The daily average scrubbing liquid flow should be a minimum of 10 gallons per minute.

8.2.2 Performance Criteria

8.2.2.1 Data Representativeness

The scrubber liquid flow is measured using a flow meter on the line feeding the venturi throat. The flow meter is certified by the manufacturer to be accurate within ±5 percent of the design scrubbing liquid flow rate.

8.2.2.2 Verification of Operational Status

This requirement does not apply to the venturi scrubber since all equipment already exists.

8.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the slaker is operating. These activities include a visual inspection of the scrubber for obvious signs of leaks or malfunctions and verifying the scrubber liquid is flowing.

Quality control activities include inspection of the flow meter annually in accordance with manufacturer's instructions, and replacement if necessary.

8.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM emissions from the scrubber are approximately 7 tons per year, which is less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily.

Title V Operating Permit Condition 6.B.Gen.06c requires the scrubber liquid flow to be monitored and recorded once per shift.

8.3 Justification

8.3.1 Monitoring Approach and Indicator

The facility has operated the slaker and associated venturi scrubber since 1992. The use of venturi scrubbers is an effective means of controlling particulate emissions from slakers. Scrubbers are common PM control devices listed in many New Source Performance Standards (NSPS). It is very common for scrubbing liquid flow to be listed in the NSPS as a parameter requiring monitoring as an indication of proper scrubber operation.

8.3.2 Indicator Range(s)

The selected indicator ranges are a daily average minimum scrubbing liquid flow of 10 gallons per minute.

These indicator ranges were established based on historical data.

9.0 Causticizing Lime Silos (Baghouses)

9.1 Background

9.1.1 Emission Unit Identification

The causticizing lime silos (Emission Unit ID 17) use baghouses to control emissions of particulate matter (PM).

9.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The lime silos are regulated by South Carolina Regulation 61-62.5, Standard No. 4, Sections VIII and IX. Standard No. 4 establishes a particulate emission limit of 29.9 lb/hr, and an opacity limit of 20%. Title V Operating Permit Condition 6.B.Gen.08 requires daily visual emission inspections (VE).

9.1.3 Control Technology Description

The lime silos use baghouses designed to remove PM from the gas stream.

9.2 Monitoring Approach

9.2.1 General Criteria

9.2.1.1 Performance Indicator(s)

The Title V Operating Permit requires monitoring daily VE as the performance indicator for the baghouses.

9.2.1.2 Indicator Range(s) or Designated Condition(s)

Any abnormal VE observations for the baghouses are reported to SCDHEC on a semi-annual basis. Compliance testing is not required per Title V Operating permit condition 5.E.Gen.06.

The indicator range has been established based on the historical values reported to SCDHEC, from semi-annual reports. The daily VE should be no abnormal emissions, per Title V Operating Condition 6.B.Gen.08.

9.2.2 Performance Criteria

9.2.2.1 Data Representativeness

As stated in the USEPA *Technical Guidance Document: Compliance Assurance Monitoring (August 1998)*, opacity is the typical method used for baghouse performance monitoring, either by continuous monitoring or visual emissions observations (Appendix B, Section B.1). Following Title V operating Permit condition 6.B.Gen.08, a qualitative observation of opacity during daylight hours is made, noting color, duration, density (heavy or light) and cause and corrective action taken for any abnormal emissions.

9.2.2.2 Verification of Operational Status

This requirement does not apply to the lime silos since all equipment already exists.

9.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the lime silos are operating. These activities include a visual observation of the baghouse exhaust to determine if the opacity is abnormal.

Quality control activities include inspection of the collection bags in accordance with manufacturers instructions when abnormal VE are observed, and replacement when necessary.

9.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM emissions from the baghouses are approximately 5 tons per year, which is less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily.

Title V Operating Permit Condition 6.B.Gen.08 requires the visual emissions be inspected and recorded once daily. On days when the source is not in operation, the daily inspection will indicate the source is not operating.

9.3 Justification

9.3.1 Monitoring Approach and Indicator

As stated in the USEPA *Technical Guidance Document: Compliance Assurance Monitoring (August 1998)*, opacity is the typical method used for baghouse performance monitoring, either by continuous monitoring or visual emissions observations (Appendix B, Section B.1). Following Title V operating Permit condition 6.B.Gen.08, a qualitative observation of opacity during daylight hours is made, noting color, duration, density (heavy or light) and cause and corrective action taken for any abnormal emissions.

9.3.2 Indicator Range(s)

The indicator range established in the Title V operating Permit is any abnormal emissions (condition 6.B.Gen.08).

10.0 No.1 Combination Boiler (Electro-Static Precipitator)

10.1 Background

10.1.1 Emission Unit Identification

The No. 1 combination boiler (Emission Unit ID 21) uses and electro-static precipitator (ESP) to control emissions of particulate matter (PM).

10.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The No. 1 combination boiler is regulated by South Carolina Regulation 61-62.5, Standard No. 1, Sections I and II. Standard No. 1 establishes a particulate emission limit of 0.6 lb/million Btu heat input, and an opacity limit of 40%. Title V Operating Permit Condition 6.B.ID21.01 requires use of a continuous opacity monitoring system (COMS) to verify compliance.

It should also be noted that the No. 1 combination boiler will be subject to 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters (MACT Subpart DDDDD). Although the standard is not applicable at this time, the monitoring requirements for an ESP are a COMS (§63.7540 Table 2A.3.a.).

10.1.3 Control Technology Description

The No. 1 combination boiler uses an ESP to remove PM from the gas stream.

10.2 Monitoring Approach

10.2.1 General Criteria

10.2.1.1 Performance Indicator(s)

The Title V Operating Permit Condition 6.B.ID21.01 requires continuous opacity monitoring as the performance indicator for the ESP.

10.2.1.2 Indicator Range(s) or Designated Condition(s)

Any deviations of six-minute average opacity are reported to SCDHEC on a semi-annual basis. Compliance testing is performed every two years. The indicator range has been established in Title V Operating Permit Condition 6.B.ID21.01 as opacity of greater than 40%.

The facility DCS automatically collects opacity readings at least once every ten seconds and records average opacity once every six-minutes.

A monitor downtime of up to ten-percent due to malfunctions is possible during a quarterly reporting period for the COMS, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989).

10.2.2 Performance Criteria

10.2.2.1 Data Representativeness

Many NSPS standards and the Boiler MACT (Subpart DDDDD) specify the use of COMS on boilers with dry particulate control devices to monitor performance.

10.2.2.2 Verification of Operational Status

This requirement does not apply to the boiler since all equipment already exists.

10.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the boiler is operating. These activities include a visual inspection of the ESP, verifying the fields, rappers, and hopper screws are operating, and determining if the COMS needs cleaning.

Quality control activities include inspection of the COMS semi-annually in accordance with manufacturer's instructions, and re-calibration, repair or replacement as necessary.

10.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM emissions from the boiler are approximately 1,030 tons per year, which is greater than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires continuous monitoring to be performed.

Title V Operating Permit Condition 6.B.ID21.01 requires the opacity to be continuously monitored and recorded.

10.3 Justification

10.3.1 Monitoring Approach and Indicator

The Industrial Boiler MACT (40 CFR Part 63, Subpart DDDDD) requires using a COMS to verify compliance with the PM emission limit, which is a surrogate for metal HAPs, for boilers with dry control devices like ESPs.

10.3.2 Indicator Range(s)

The indicator range established in the Title V Operating Permit (condition 6.B.ID21.01) is opacity greater than 40% for any three-hour block average.

11.0 No.2 Combination Boiler (Electro-Static Precipitator)

11.1 Background

11.1.1 Emission Unit Identification

The No. 2 combination boiler (Emission Unit ID 22) uses and electro-static precipitator (ESP) to control emissions of particulate matter (PM).

11.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The No. 2 combination boiler is regulated by South Carolina Regulation 61-62.5, Standard No. 1, Sections I and II. Standard No. 1 establishes a particulate emission limit of 0.6 lb/million Btu heat input, and an opacity limit of 40%. Title V Operating Permit Condition 6.B.ID22.01 requires use of a continuous opacity monitoring system (COMS) to verify compliance.

It should also be noted that the No. 2 combination boiler is subject to 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters (MACT Subpart DDDDD). Although the standard is not applicable at this time, the monitoring requirements for an ESP are a COMS (§63.7540 Table 2A.3.a.).

11.1.3 Control Technology Description

The No. 2 combination boiler uses an ESP to remove PM from the gas stream.

11.2 Monitoring Approach

11.2.1 General Criteria

11.2.1.1 Performance Indicator(s)

The Title V Operating Permit Condition 6.B.ID22.01 requires continuous opacity monitoring as the performance indicator for the ESP.

11.2.1.2 Indicator Range(s) or Designated Condition(s)

Any deviations of six-minute average opacity values are reported to SCDHEC on a semi-annual basis. Compliance testing is performed every two years. The indicator range has been established in Title V Operating Permit Condition 6.B.ID22.01 as opacity of greater than 40%.

The facility DCS automatically collects opacity readings at least once every ten seconds and records average opacity once every six-minutes.

A monitor downtime of up to ten-percent due to malfunctions is possible during a quarterly reporting period for the COMS, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989).

11.2.2 Performance Criteria

11.2.2.1 Data Representativeness

Many NSPS standards and the Boiler MACT (Subpart DDDDD) specify the use of COMS on boilers with dry particulate control devices to monitor performance.

11.2.2.2 Verification of Operational Status

This requirement does not apply to the boiler since all equipment already exists.

11.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the boiler is operating. These activities include a visual inspection of the ESP, verifying the fields, rappers, and hopper screws are operating, and determining if the COMS needs cleaning.

Quality control activities include inspection of the COMS semi-annually in accordance with manufacturer's instructions, and re-calibration, repair or replacement as necessary.

11.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled PM emissions from the boiler are approximately 1,305 tons per year, which is greater than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires continuous monitoring to be performed.

Title V Operating Permit Condition 6.B.ID22.08 requires the opacity to be continuously monitored and recorded.

11.3 Justification

11.3.1 Monitoring Approach and Indicator

The Industrial Boiler MACT (40 CFR Part 63, Subpart DDDDD) requires using a COMS to verify compliance with the PM emission limit, which is a surrogate for metal HAPs, for boilers with dry control devices like ESPs.

11.3.2 Indicator Range(s)

The indicator range established in the Title V Operating Permit (condition 6.B.ID22.01) is opacity greater than 40% for any three-hour block average.

12.0 Condensate System (No. 1 and No. 2 Combination Boilers)

12.1 Background

12.1.1 Emission Unit Identification

The condensate system (emission unit ID 23) is controlled using the No. 1 and No. 2 Combination Boilers.

12.1.2 Applicable Regulations, Emission Limits, and Monitoring Requirements

The condensate stripper is subject to 40 CFR Part 60, Subpart BB, Standards of Performance for Kraft Pulp Mills (NSPS Subpart BB). NSPS Subpart BB sets emission limits for total reduced sulfur (TRS) compounds. The No. 1 and No. 2 combination boilers are used to destroy TRS compounds from the condensate system and comply with §60.283(a)(1)(iii).

The NSPS requires continuous temperature monitoring, however Title V Operating Permit Conditions 6.B.ID21.07 and 6.B.ID22.07 require operation of the flame failure system as alternative monitoring parameters approved pursuant to §60.13(h)(I)(1).

12.1.3 Control Technology Description

The combination boilers are designed to convert TRS compounds into sulfur dioxide.

12.2 Monitoring Approach

12.2.1 General Criteria

12.2.1.1 Performance Indicator(s)

The Title V Operating Permit requires monitoring the flame failure system as the performance indicators for the combination boilers.

12.2.1.2 Indicator Range(s) or Designated Condition(s)

The operation of the flame failure system is currently reported to SCDHEC on a quarterly basis. The indicator range has been established based on the historical values reported to

SCDHEC. The positive operation of the flame failure system indicates the presence of flame in the appropriate combination boiler whenever TRS gases are being generated by the condensate system.

12.2.2 Performance Criteria

12.2.2.1 Data Representativeness

The flame failure system uses infrared sensors to determine the presence or absence of flame (combustion) in the combination boilers. The sensors for determining flame presence are located within the firebox.

12.2.2.2 Verification of Operational Status

This requirement does not apply to the No. 1 and No. 2 combination boilers since all equipment already exists.

12.2.2.3 Quality Assurance/Quality Control Practices

Quality assurance activities are performed a minimum of once daily by the operators when the condensate system is operating. These activities include a visual inspection of the combination boiler for obvious signs of leaks or malfunctions and verifying the TRS gases are being collected and routed to the operating combination boiler.

Quality control activities include inspection of the flame failure system igniters and burners during planned maintenance periods when the boilers are in a cold shut-down, and repairs if necessary.

12.2.2.4 Monitoring Frequency and Data Collection Procedures

The maximum controlled TRS emissions from the condensate system are less than 1 ton per year, which is less than the major source threshold of 100 tons per year. Therefore, the CAM Rule requires monitoring to be performed a minimum of once daily. However, Title V Operating Permit Conditions 6.B.ID21.07 and 6.B.ID22.07 require the flame failure system to be monitored and recorded continuously.

The facility DCS automatically collects and records the operation of the flame failure system continuously. Periods when the boiler generates less than 50,000 pounds per hour of steam are considered startup/shutdown periods. In addition, monitor downtime of up to ten-percent

due to malfunctions is possible during a quarterly reporting period for the flame failure system, consistent with the USEPA Region 4 "CEM Enforcement Plan" (May 5, 1989). Periods of monitor downtime due to malfunctions are reported to SCDHEC on quarterly basis.

12.3 Justification

12.3.1 Monitoring Approach and Indicator

The facility has operated the flame failure system since 1987. The use of combination boilers is an effective means of controlling TRS emissions from condensate systems, and is used at many pulp and paper facilities mills throughout the United States.

Boilers are common control devices for gaseous emissions in numerous industries. In many MACT standards, no monitoring of boiler operation is required if the heat input to the boiler is greater than 150 million British Thermal Units per hour (MMBtu/hr).

12.3.2 Indicator Range(s)

The selected indicator range is positive operation of the flame failure system.

Site History

Resolute FP US Inc. (Resolute) operates an integrated pulp and paper mill located in Catawba, South Carolina. The Standard Industrial Classification (SIC) code for plant operations are 2611 and 2621. The original pulp mill was constructed in 1959 which included a woodyard area for the processing of raw material, a Kraft Mill to chemically process wood chips into pulp, a pulp dryer, a chemical recovery area to recycle process chemicals, a utilities area to generate steam and electricity, a waste treatment area, and other operations.

In 1962, a paper machine (PM1) and a groundwood pulping process were added to the facility to facilitate the production of paper. Resolute installed an additional paper machine (PM3) in 1968, as well as the expansion of the groundwood pulping process. A thermo-mechanical pulping (TMP) process was added to the facility in 1978. Eight years later (1986), the groundwood and thermo-mechanical pulping processes were eliminated, while a new paper machine (PM2) was installed to increase the production of paper. Also in 1986, a new thermo-mechanical pulping process was added to replace the original thermo-mechanical pulp (TMP).

In 2003, the original kraft pulping system and bleach plant were replaced with a state-of-the-art kraft fiberline and bleaching system. In addition, PM3 was converted from newsprint to coated paper production, and TMP was also re-configured to support only coated paper production. Presently, the pulp and paper mill produces coated and uncoated paper, and market pulp. Raw furnish (logs and chips) for the virgin pulp is southern pine.

A site map, which identifies all major plant processes, has been included in Attachment 2.

Resolute FP US Inc. has operated the Catawba Mill under the prior names AbiBow US Inc. and Bowater Coated Paper Division.

Process Description

The Resolute Coated Paper Division's pulp and paper mill is comprised of eight (8) distinct process areas, which include the following: the woodyard area, the Kraft pulp mill area, the thermo-mechanical pulp (TMP) mill area, the paper mill area, the chemical recovery area, the utilities area, the waste treatment area, and the miscellaneous area.

Process flow diagrams for each process area and the overall mill are included from previous permit applications are provided in Attachment 3. These simplified diagrams illustrate the major

emission sources or equipment within each area, as they relate to the overall production of pulp and paper.

Southern Pine logs and chips are received by the Resolute facility at the woodyard. Logs are debarked, chipped, and screened prior to storage for use within the pulping processes. Likewise, wood chips received at the mill are screened, and processed as needed, prior to use within the pulping processes.

The Kraft (sulfate) and the thermo-mechanical pulp (TMP) process areas are both used to produce pulp. Pulp from the Kraft process is produced from "cooking" wood chips in a caustic solution at an elevated temperature and pressure. Pulp from the TMP process is produced by feeding chips at an elevated temperature and pressure through a disk refiner, which shears the chips into a fibrous mass. Pulp from these two processes is then bleached to finished product specifications.

Coated and uncoated papers are produced in the paper mill area on three paper machines. Market pulp is produced on one pulp dryer. The pulp dryer is considered part of the paper mill area even though the dryer is physically located in the Kraft mill.

The recovery furnaces (chemical recovery area), which are auxiliary to the Kraft process, burn the organics in black liquor extracted from the chips and recover cooking chemicals. The causticizing area utilizes the chemicals recovered by the recovery boilers after adding saltcake and provides the cooking chemicals for Kraft process. The chemical recovery process also includes a lime kiln.

A waste treatment area receives wastewater and mill waste (solid waste) from the various previously mentioned areas of the facility. Wastewater undergoes biological treatment to remove the dissolved organic wastes prior to discharge into the receiving stream. Mill solid waste is deposited within an on-site landfill for disposal.

Steam and electricity are produced for facility-wide use by two combination boilers and one power boiler. The recovery furnaces and the TMP process also generate steam.

Part 70 Operating Permit Application

In accordance with the facility Title V Operating Permit (TV-2440-0005), Condition 3.B.2. Resolute has prepared and submitted this operating permit renewal application. All applicable

forms and information provided in this application to demonstrate the facility is in compliance with all applicable requirements, including all state and federal air regulations.

The information contained within this application is accurate and complete for the process operations at the Catawba facility at the time of submittal. This document has been prepared using good engineering practices to ensure that the best available data is used to estimate emissions from all covered processes. At the time of submittal, the facility is in compliance with all applicable regulations. As modifications are made to the facility or changes in regulation applicability occur, Resolute will amend the permit or permit application to account for such changes.

Resolute has also included a proposed permit based on the recently updated operating permit as Attachment 4.

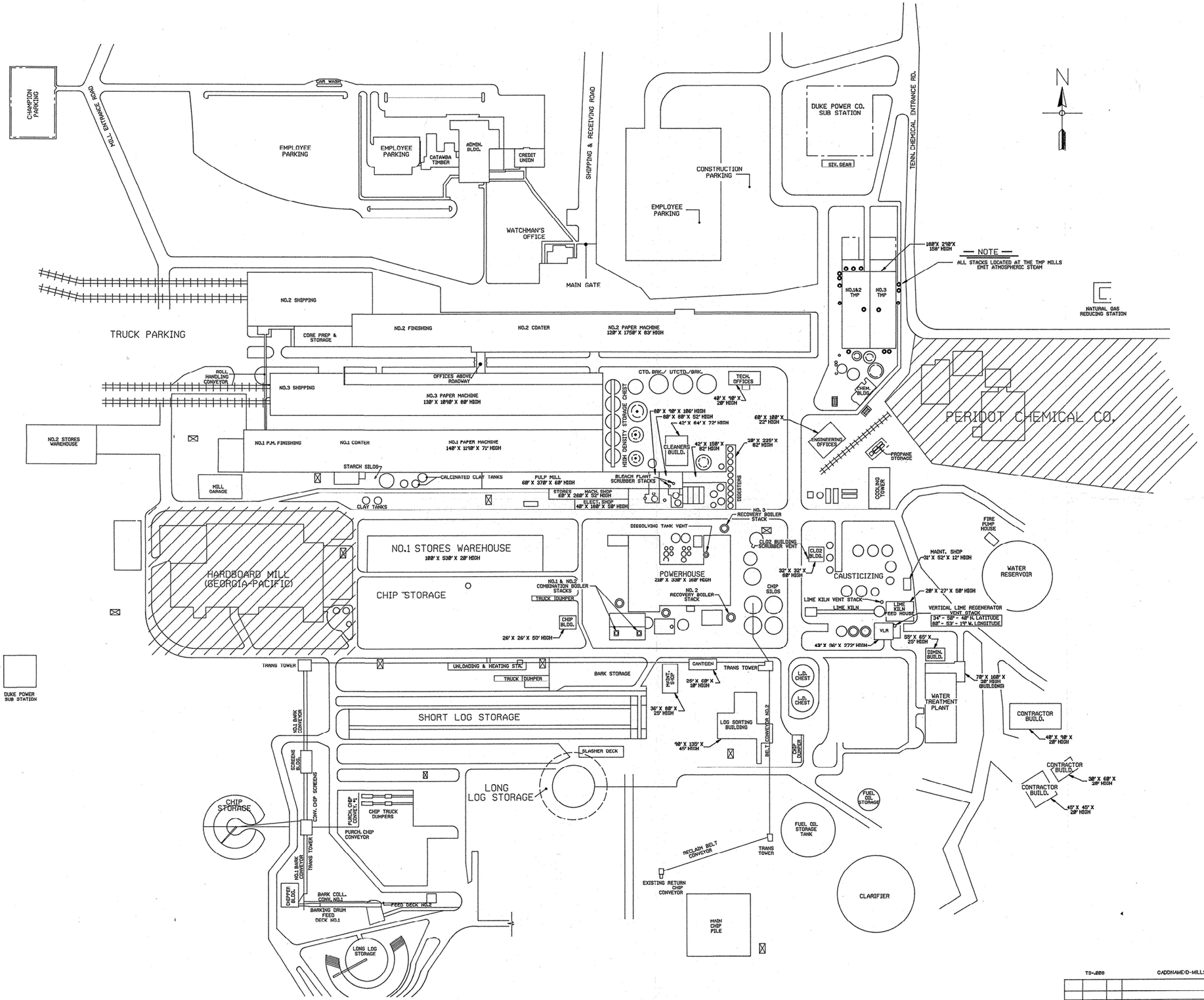
South Carolina Air Dispersion Modeling Requirements

In accordance with the November 2010 South Carolina Modeling Exemption Guidelines, exemption E.2:

"Facilities submitting Title V, conditional major, or state operating permit renewal applications that have not deferred emissions since the last operating permit and have not added new emissions sources, made stack or facility modifications that would worsen dispersion, or had emissions increases since the facility's previous compliance demonstration, are not required to submit a new compliance demonstration for the facility."

Only one source has been deferred since the previous modeling demonstration. This source was a fugitive PM emission of 0.6 lb/hr, which is less than the emission level exempt from modeling under exemption C.1. No new emission sources have been added and no stacks have been modified to worsen dispersion since the previous modeling analysis. The total facility emissions are lower than the previously modeled emission rates.

Therefore, updated modeling is not required.



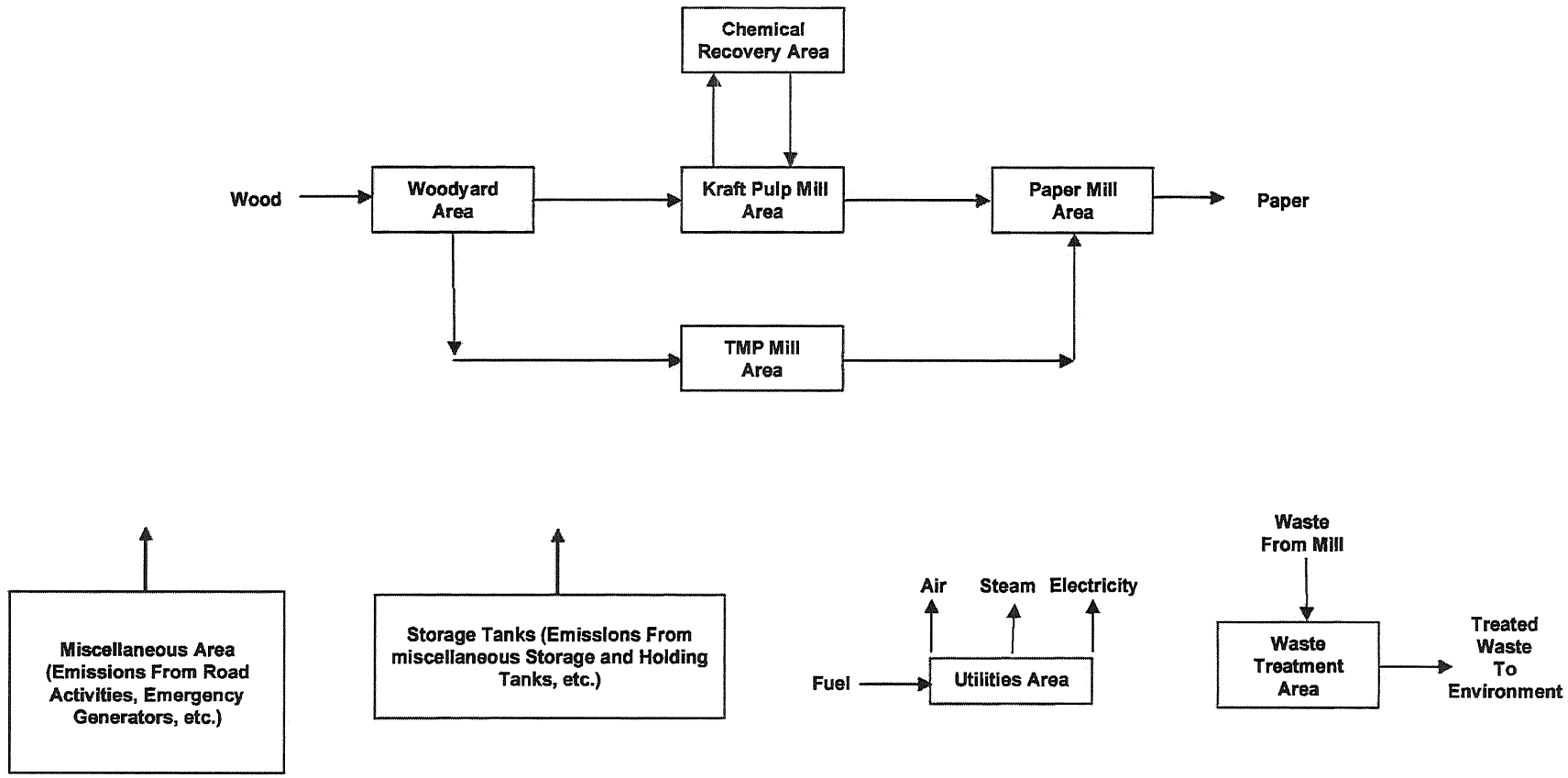
Rev	Date	By	Description

TS-.020 CADDNAME:D-MILL2

BOWATER
CAROLINA DIVISION

BOWATER GENERAL PLOT PLAN
ENVIRONMENTAL EMISSIONS STUDY

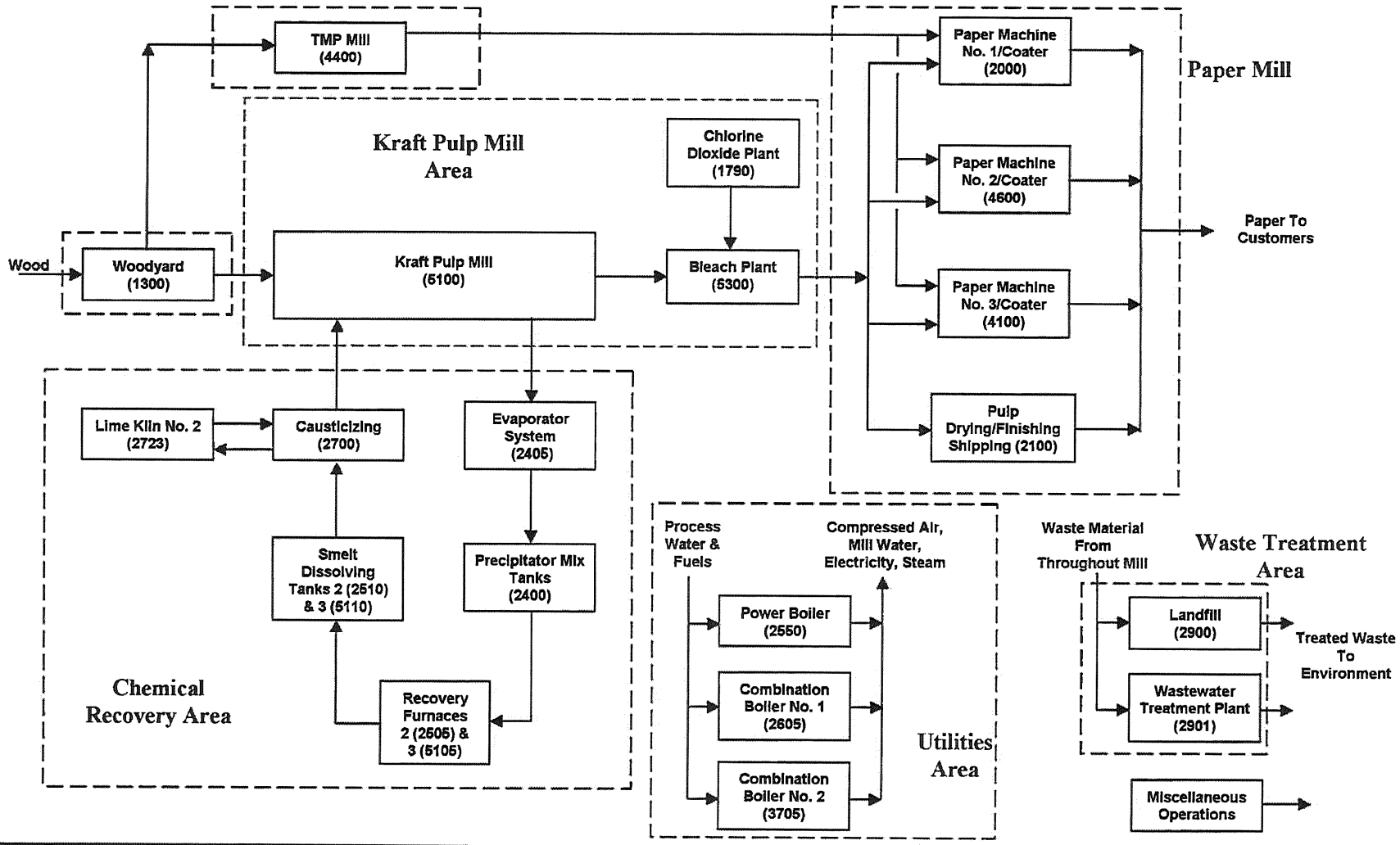
DR. R. DOUGLAS	SCALE 1"= 200'-0"	EES-1
CKD.	DATE 5-23-91	



Legend

→ Process Flow

Figure 1-1: Process Flow Diagram For Source-Wide Process Areas
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



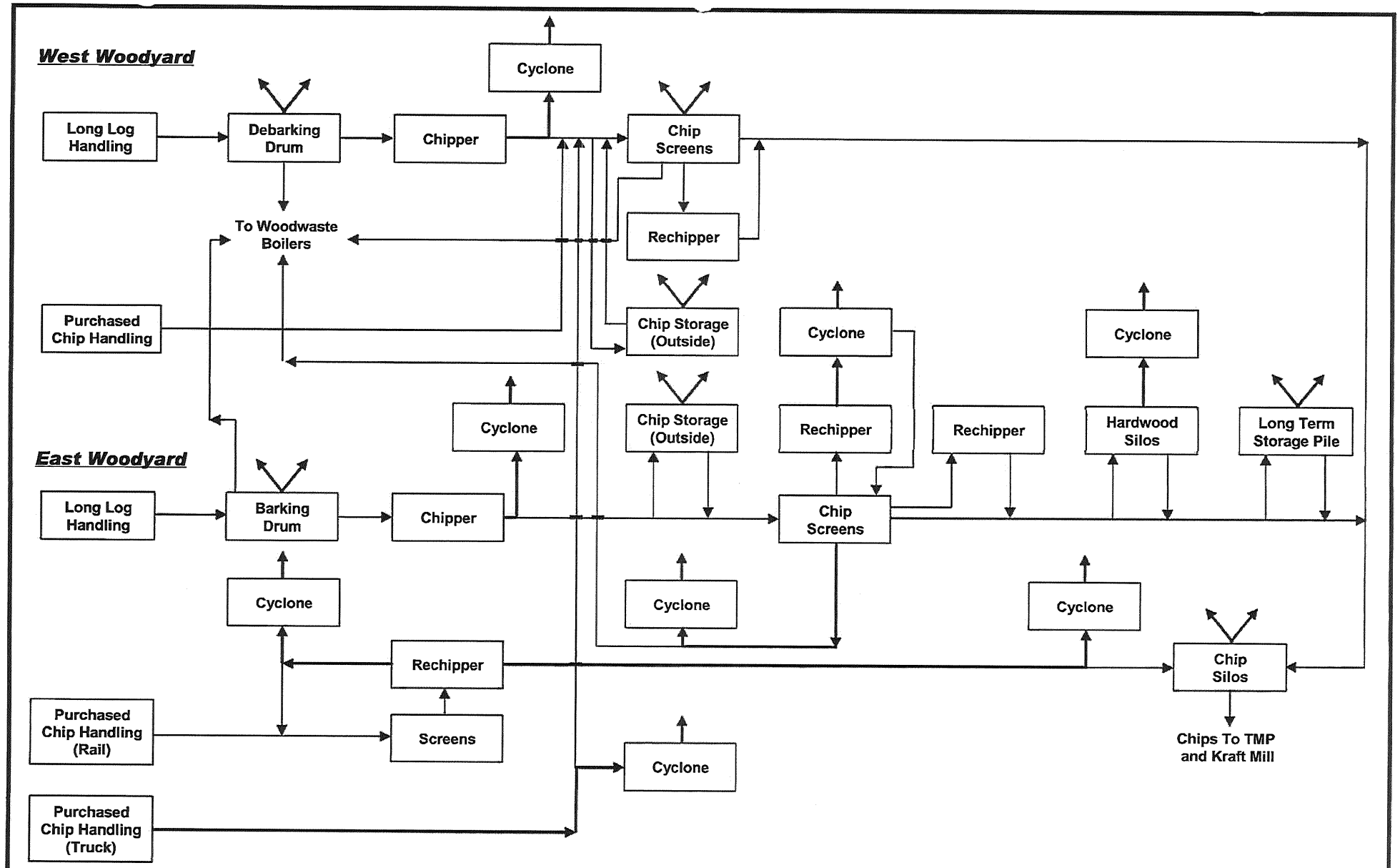
Legend

Process Area → Air Emissions

Process Flow

Figure 1-2: Process Flow Diagram For Showing All Emission Units

Bowater Coated and Specialty Papers Division
Catawba, South Carolina



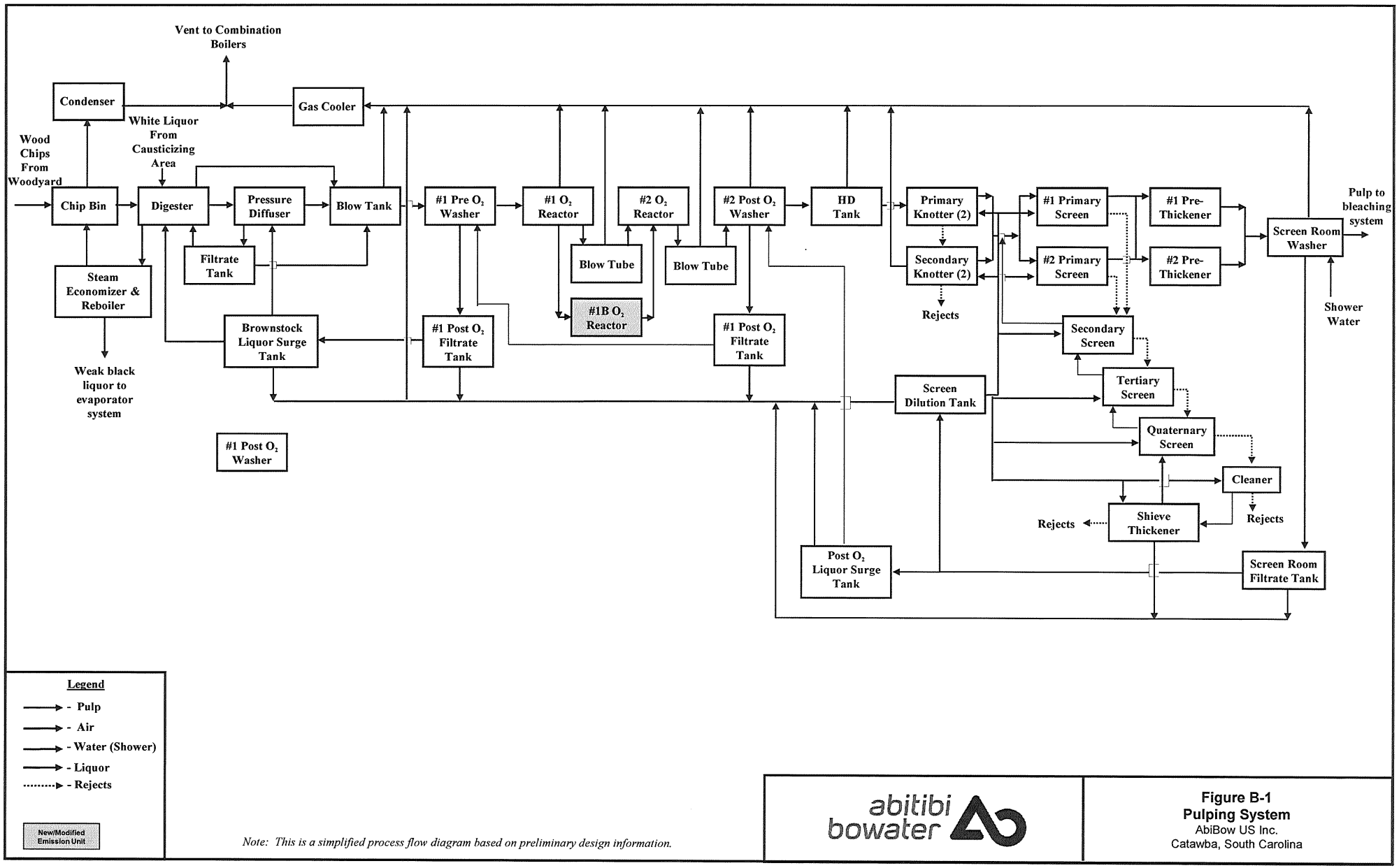
Legend

→ Process Flow

→ Air Emissions

Figure 2-1: Process Flow Diagram For Woodyard Area

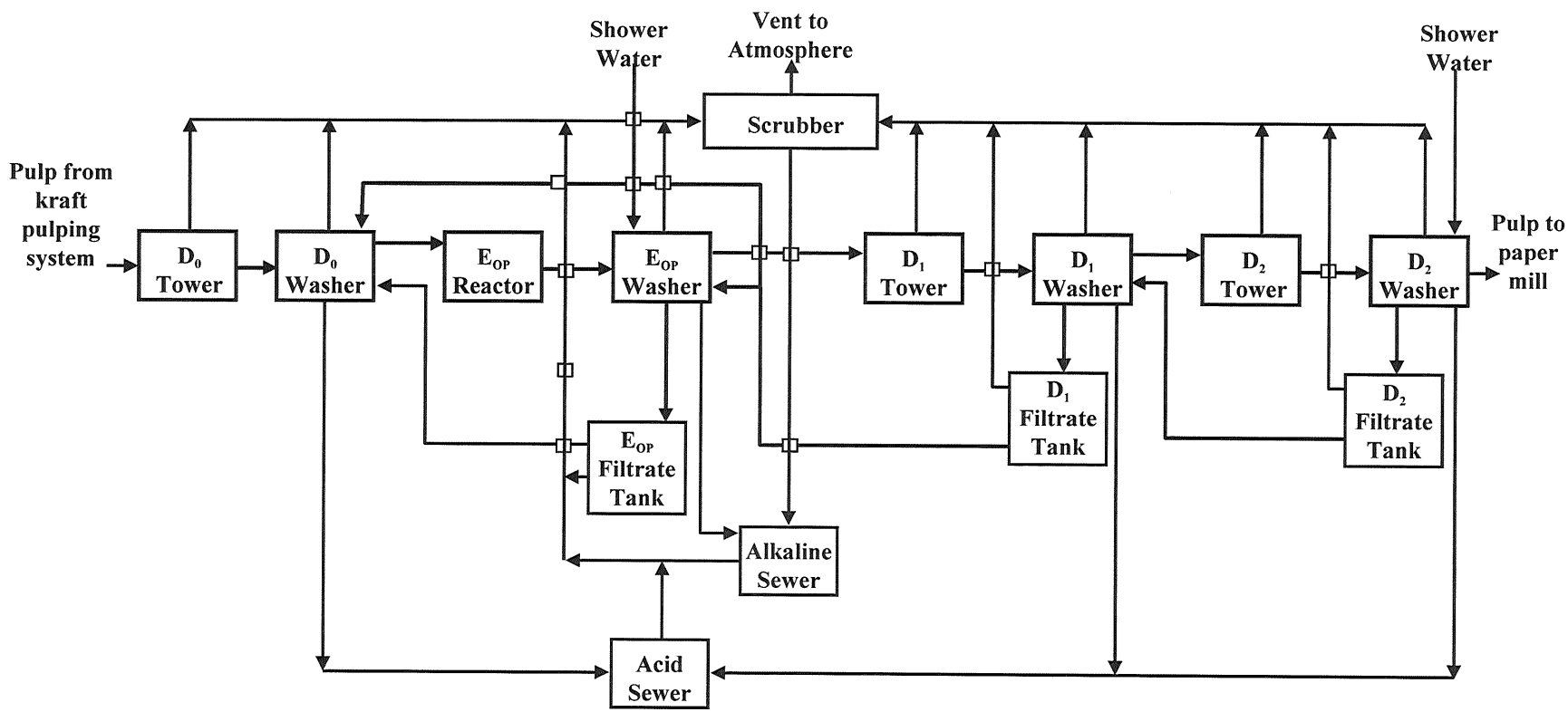
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



Note: This is a simplified process flow diagram based on preliminary design information.

abitibi bowater

Figure B-1
Pulping System
AbiBow US Inc.
Catawba, South Carolina



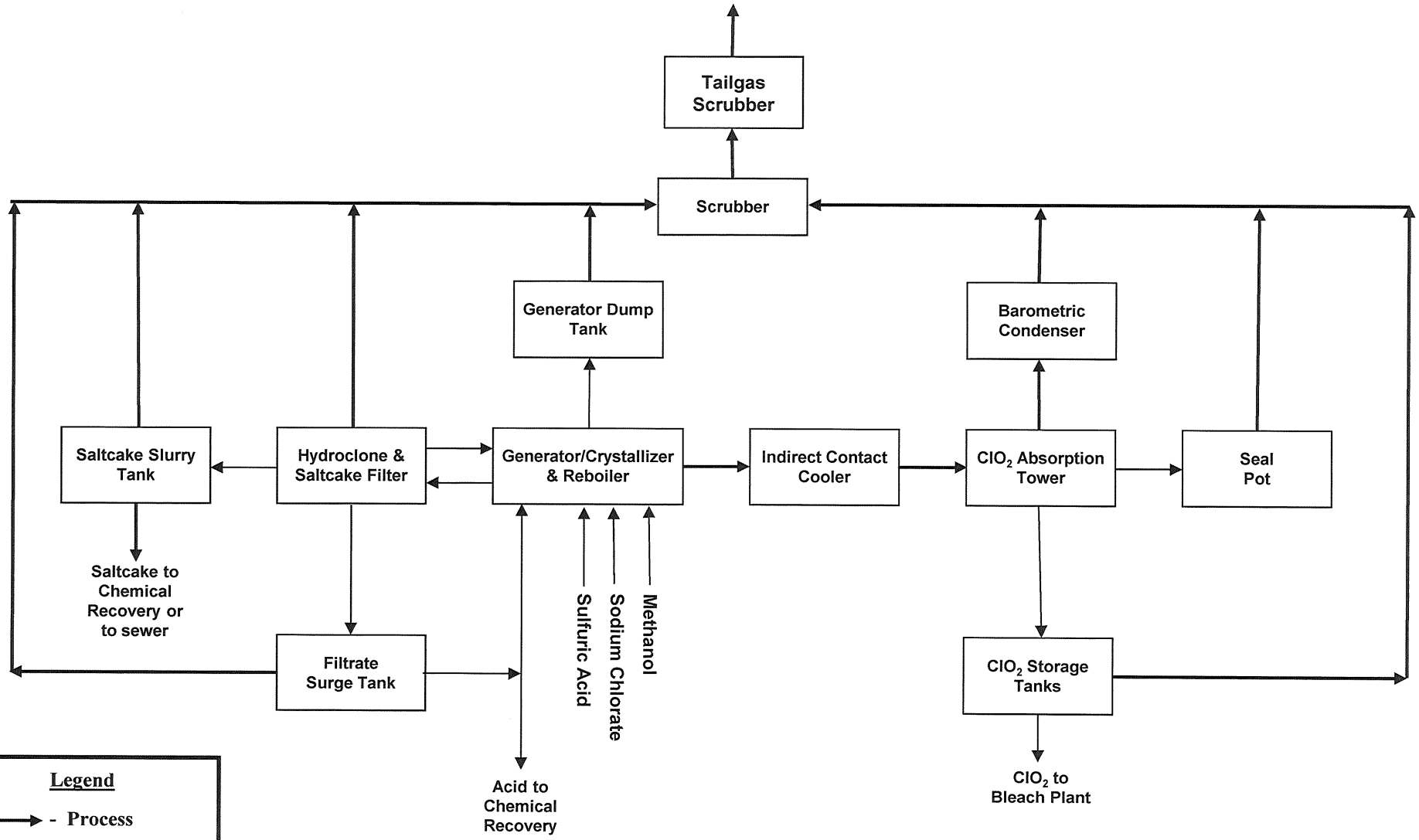
Legend

- Pulp
- Air
- Water (Shower)
- Liquor

Note: This is a simplified process flow diagram based on preliminary design information.

abitibi bowater

Figure B-3
Bleach Plant Area
AbiBow US Inc.
Catawba, South Carolina



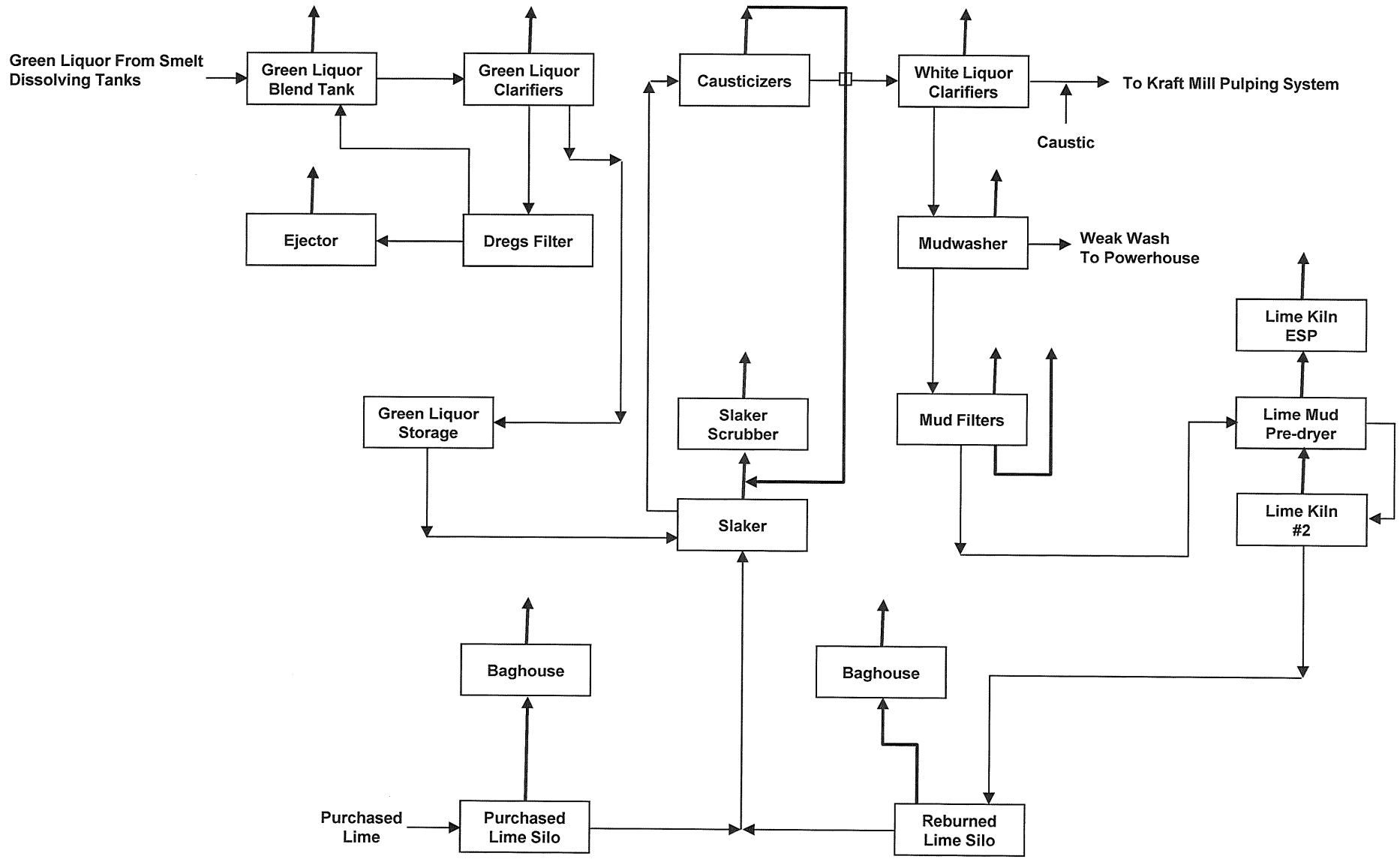
Legend

- Process
- Air
- Water
- Liquor

Note: This is a simplified process flow diagram based on preliminary design information.

abitibi bowater

Figure B-4
Chlorine Dioxide Plant Area
AbiBow US Inc.
Catawba, South Carolina



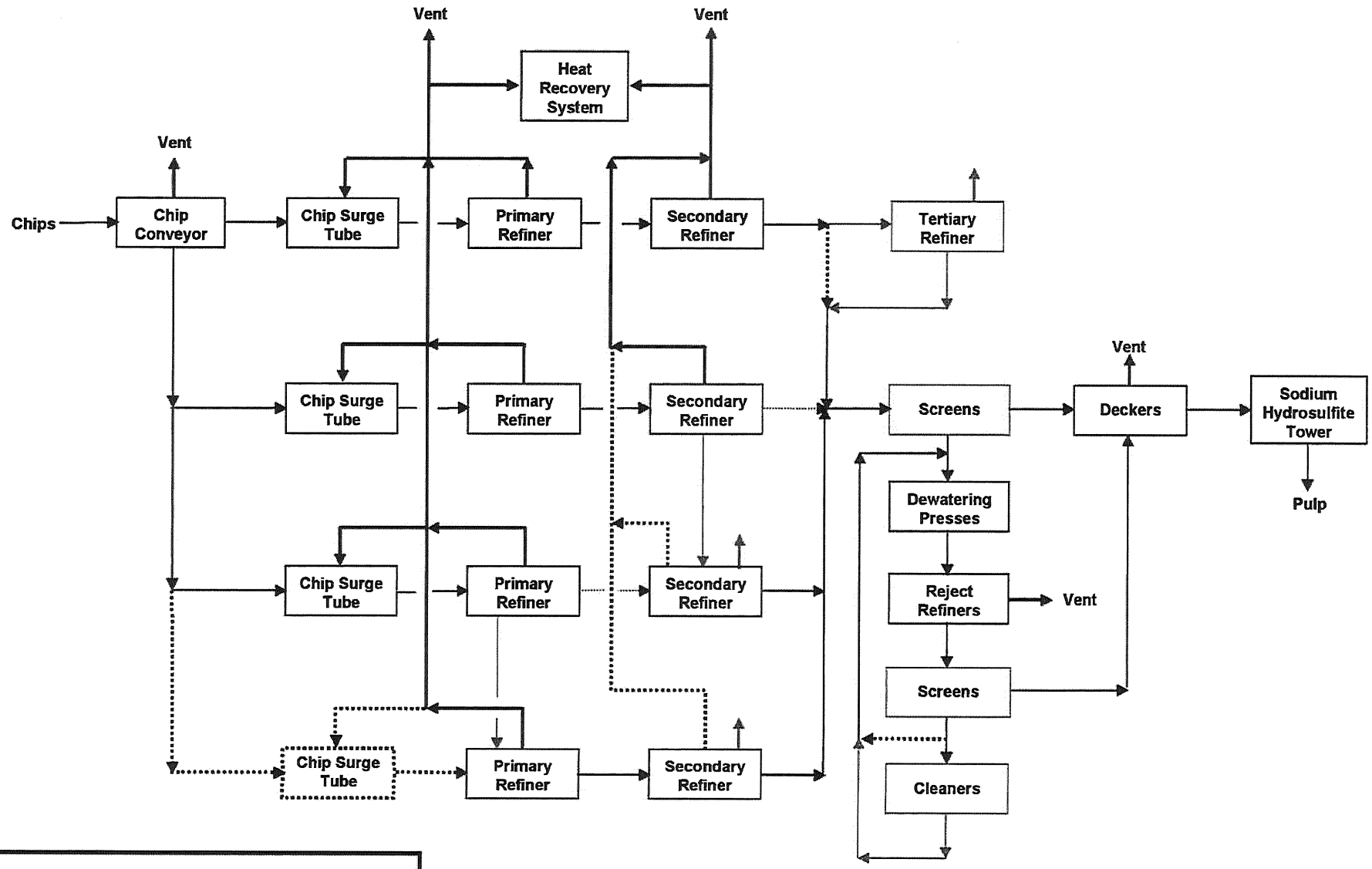
Legend

→ Process Flow

→ Air Emissions

BOWATER

Figure B-4
Causticizing Area
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



Legend

→	Process Flow	—	Replaced
➡	Air Emissions	·····	Removed
—	New		

Figure 6-1: Process Flow Diagram For TMP Mill (4400) Emission Unit
Bowater Coated and Specialty Papers Division
Catawba, South Carolina

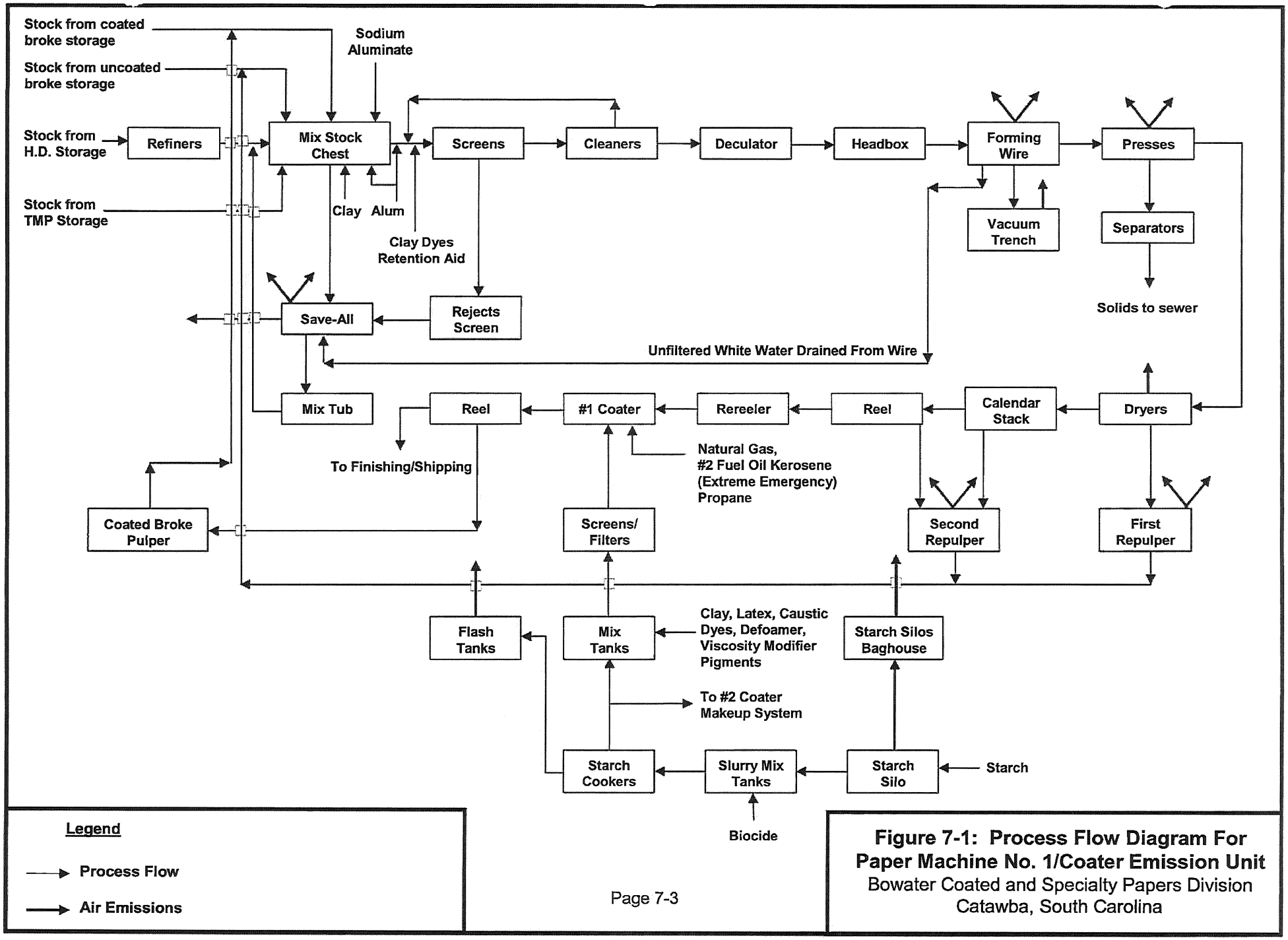
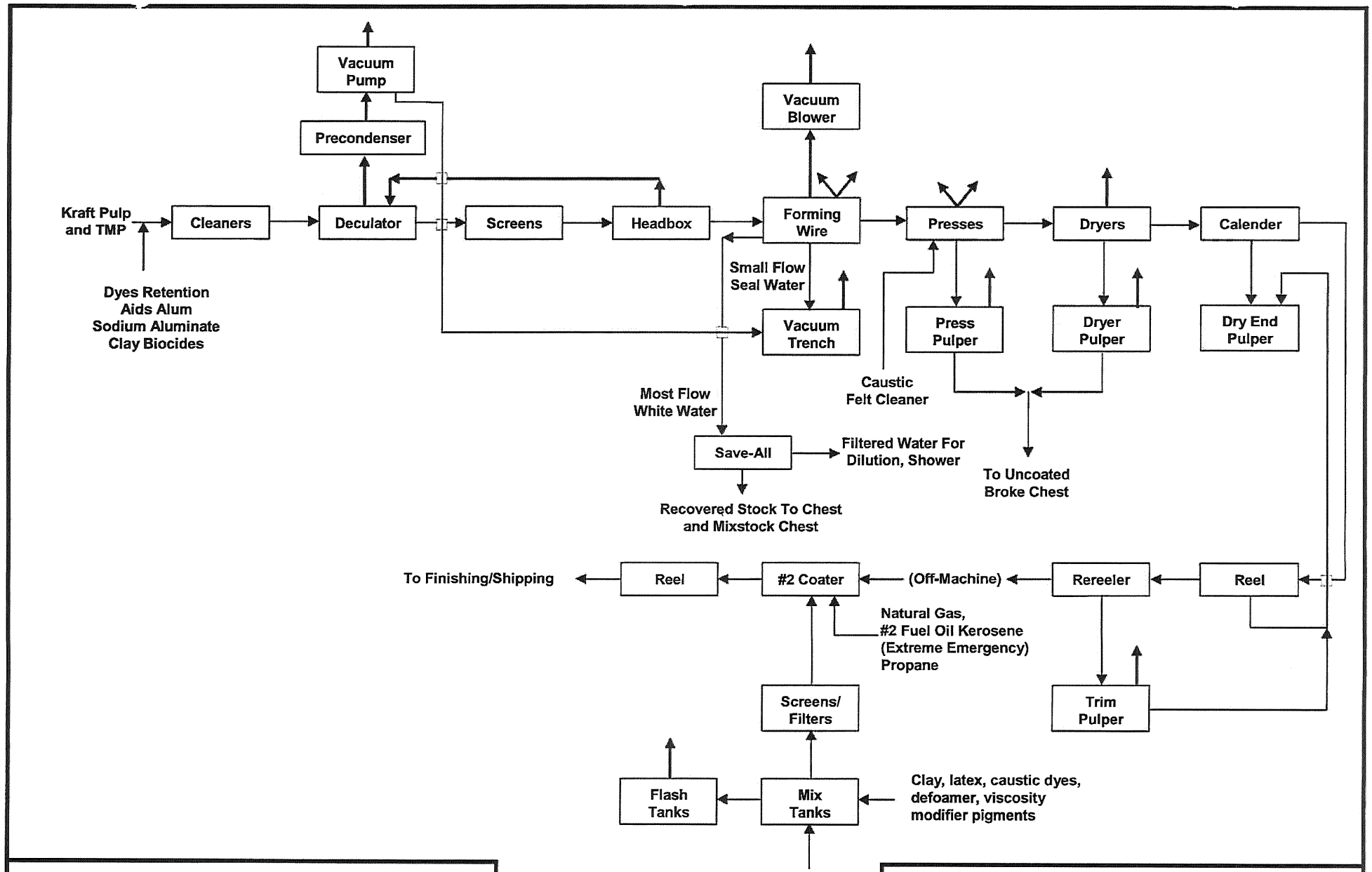


Figure 7-1: Process Flow Diagram For Paper Machine No. 1/Coater Emission Unit
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



Legend

→ Process Flow

→ Air Emissions

Figure 8-1: Process Flow Diagram For Paper Machine No. 2/Coater Emission Unit
Bowater Coated and Specialty Papers Division
Catawba, South Carolina

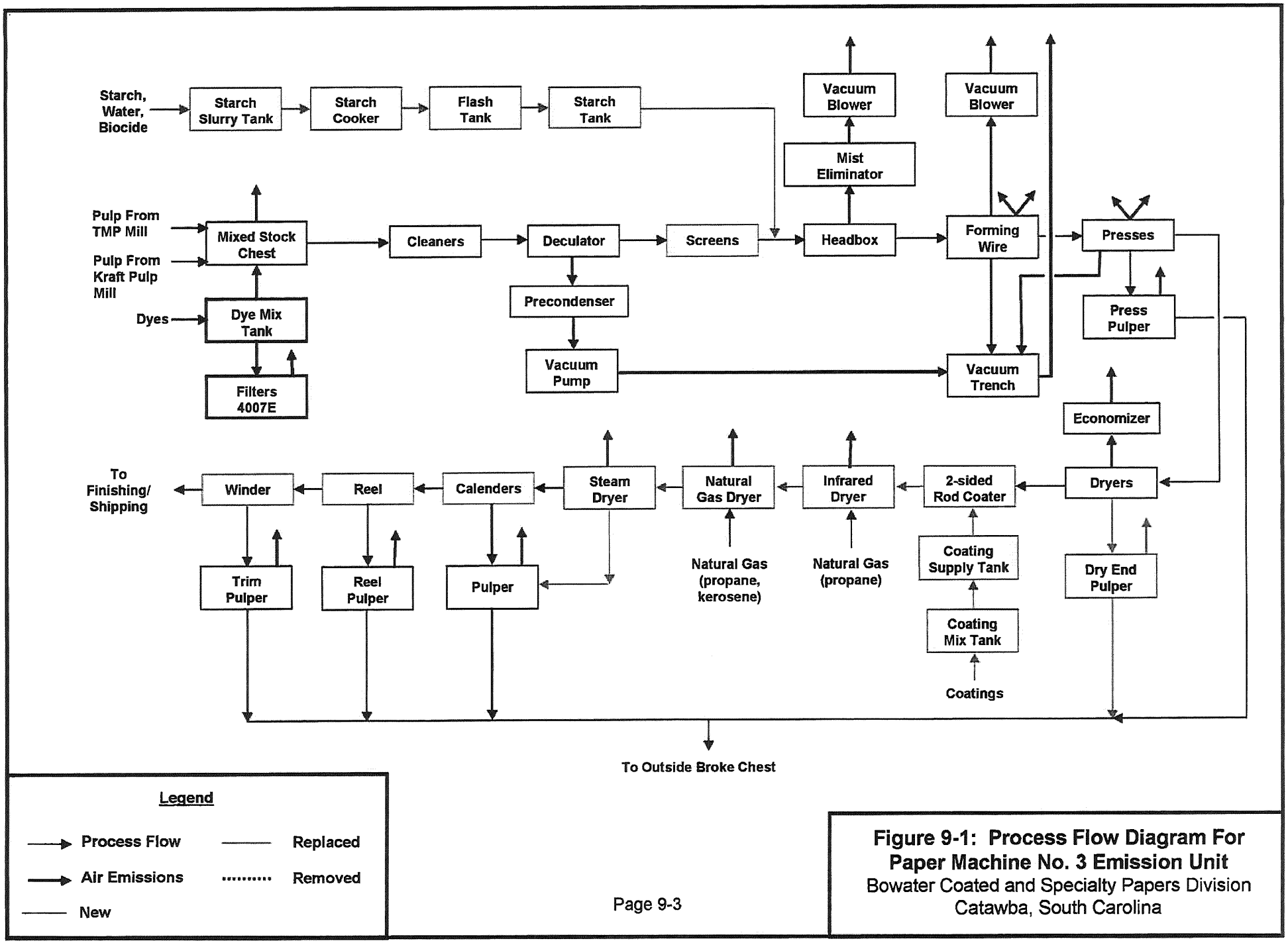
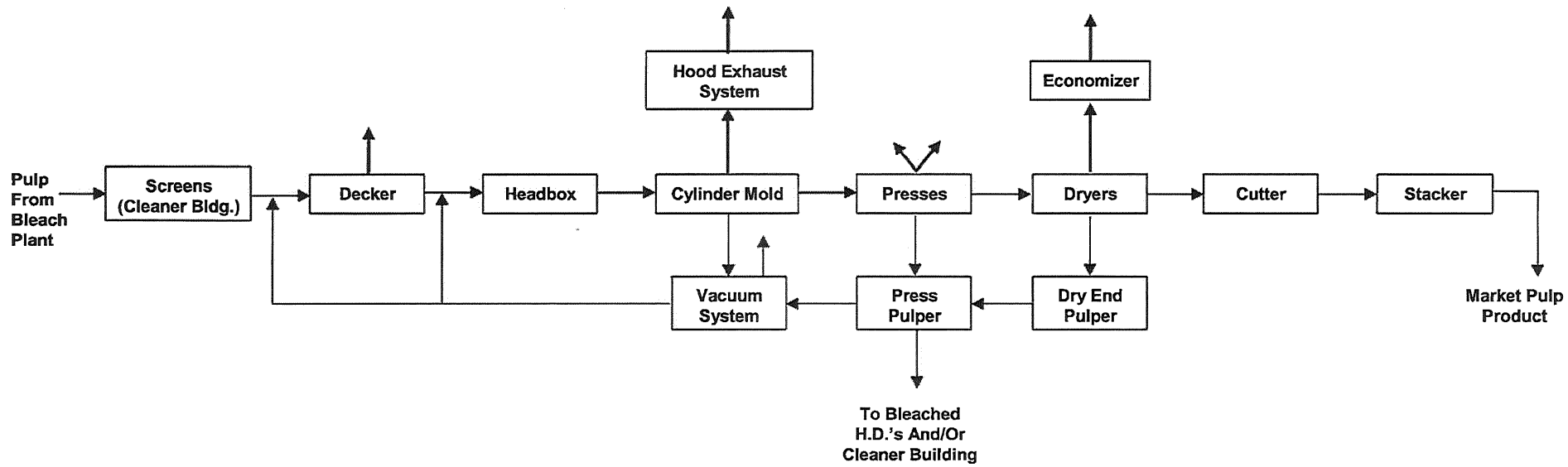


Figure 9-1: Process Flow Diagram For Paper Machine No. 3 Emission Unit
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



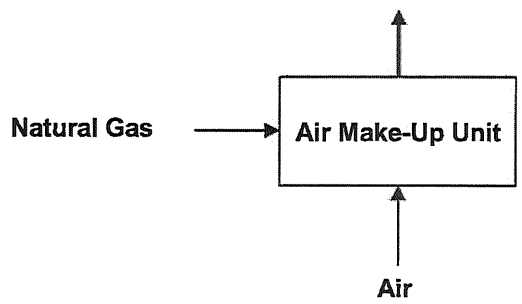
Legend

→ Process Flow

→ Air Emissions

Figure 10-1: Process Flow Diagram For Pulp Dryer Emission Unit

Bowater Coated and Specialty Papers Division
Catawba, South Carolina



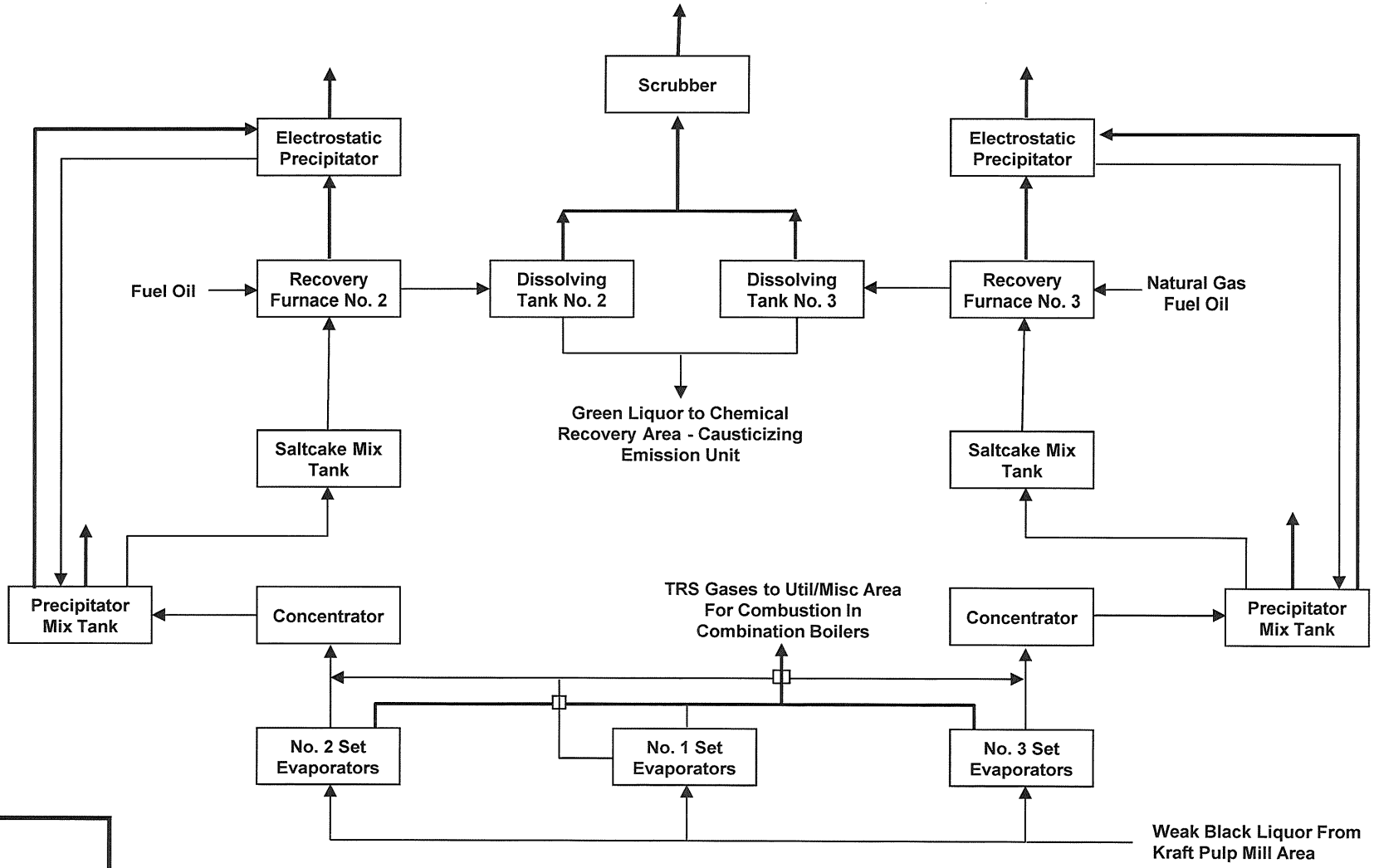
Legend

→ Process Flow

→ Air Emissions

Figure 11-1: Process Flow Diagram For Air Make-Up Units

Bowater Coated and Specialty Papers Division
Catawba, South Carolina



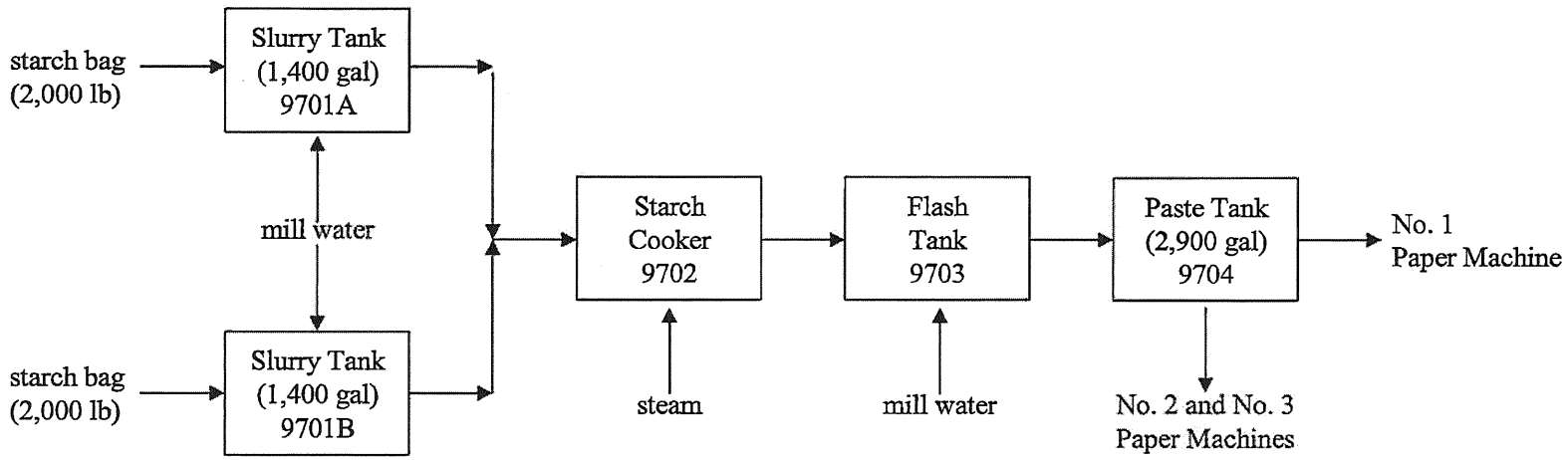
Legend

- Smelt/Green Liq.
- Air
- Water
- Black Liquor

Note: This is a simplified process flow diagram based on preliminary design information.

abitibi bowater

Figure B-2
Chemical Recovery and Evaporators
AbiBow US Inc.
Catawba, South Carolina

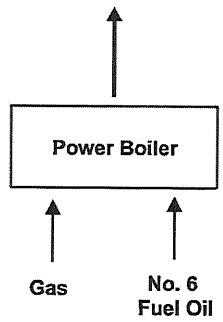


Legend

→ **Process Flow**

Figure 12-1: Process Flow Diagram For Starch System

Bowater Coated and Specialty Papers Division
Catawba, South Carolina

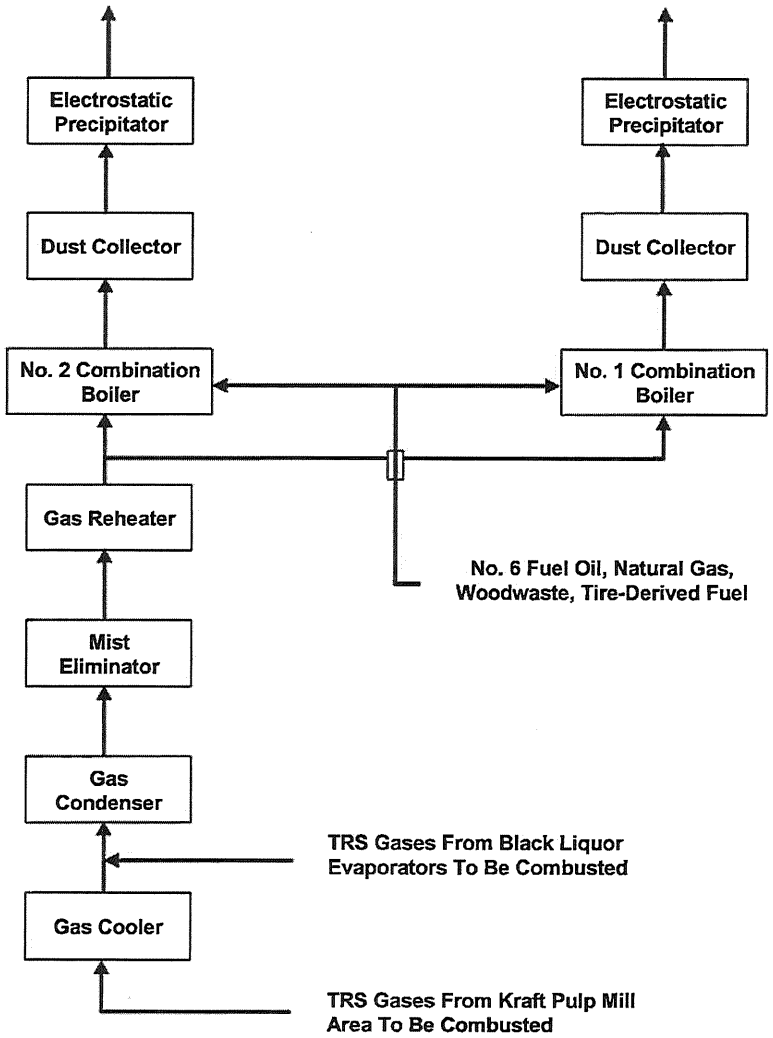


Legend

→ **Process Flow**

→ **Air Emissions**

Figure 21-1: Process Flow Diagram For The Power Boiler Emission Unit
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



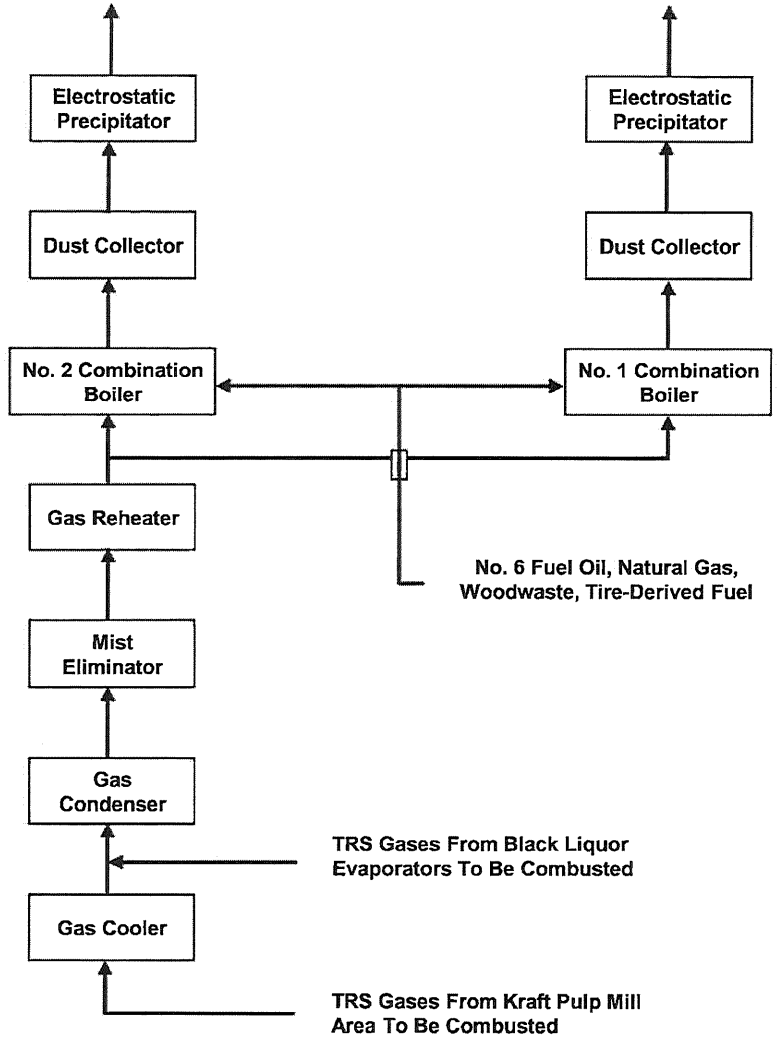
Legend

→ Process Flow

→ Air Emissions

Figure 22-1: Process Flow Diagram For Combination Boiler No. 1

Bowater Coated and Specialty Papers Division
Catawba, South Carolina



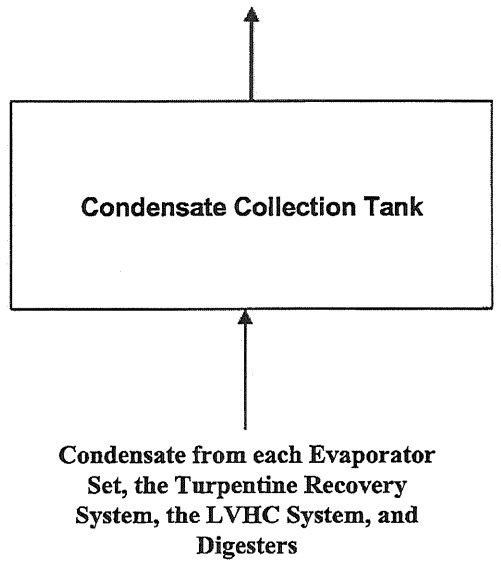
Legend

→ Process Flow

→ Air Emissions

Figure 23-1: Process Flow Diagram For Combination Boiler No. 2

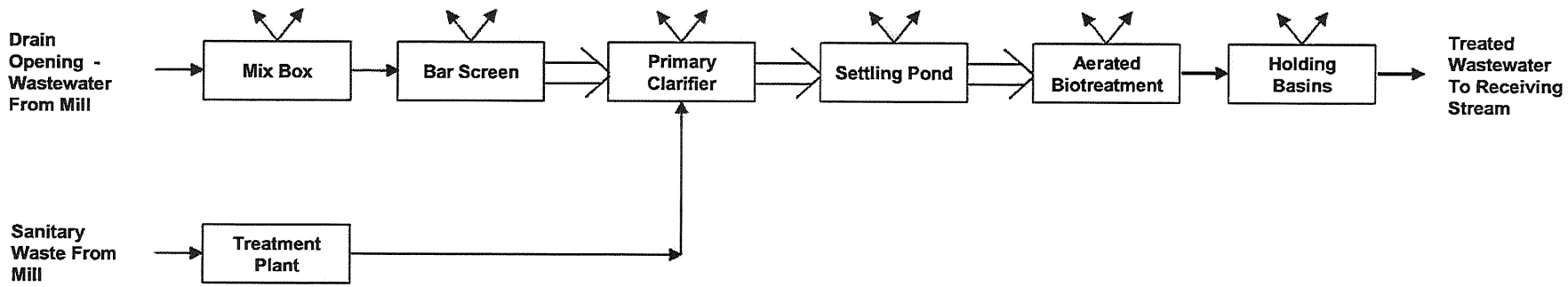
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



Legend

→ Process Flow

Figure 24-1: Process Flow Diagram For the Condensate Collection Tank
Bowater Coated and Specialty Papers Division
Catawba, South Carolina



Legend

- Process Flow
- Waterfall
- Open Trench

Figure 25-1: Process Flow Diagram For Wastewater Treatment Area

Bowater Coated and Specialty Papers Division
Catawba, South Carolina

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health
and Environmental Control

Part 70 Air Quality Permit

Resolute FP US Inc.
5300 Cureton Ferry Road
Catawba, SC 29704

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5) and 48-1-110(a), and the 1976 Code of Laws of South Carolina, as amended, Regulation 61-62, the above named permittee is hereby granted permission to discharge air contaminants into the ambient air. The Bureau of Air Quality authorizes the operation of this facility and its applicable equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Title V permit application received on January 8, 2013, as amended.

This permit is subject to and conditioned upon the terms, limitations, standards, and schedules contained in or specified on the 116 pages, with the accompanying attachments, of this permit.

Permit Number:	**TV-2440-0005**	**Effective Date Title V:**	**October 1, 2013**
Issue Date:	**August 20, 2013**	**Expiration Date Title V:**	**September 30, 2018**

Director, Engineering Services Division
Bureau of Air Quality

PROPOSED

RECORD OF REVISIONS			
Revision Number	**Final Revision Date**	**Type of Revision (AA, MM, SM)**	**Description of Change (Specific Parts, Sections, and Tables Revised or Added)**

AA = Administrative Amendment
MM = Minor Modification
SM = Significant Modification

Send copies of all revisions to Permit File, Regional EQC Office, US EPA, and Environmental Contact.

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PROPOSED

PART 1.0 GENERAL INFORMATION

A. APPLICABLE PERMIT DATES

ISSUE DATE:	August 20, 2013
EFFECTIVE DATE:	October 1, 2013
EXPIRATION DATE:	September 30, 2018
RENEWAL APPLICATION DUE:	March 31, 2018

B. FACILITY INFORMATION

ENVIRONMENTAL CONTACT:	Dale Herendeen
CONTACT TELEPHONE NUMBER:	(803) 981-8009
CONTACT FAX NUMBER:	(803) 981-8799
INTERNET E-MAIL ADDRESS:	Dale.Herendeen@resolutefp.com
FACILITY LOCATION:	5300 Cureton Ferry Road, Catawba
COUNTY:	York
SIC CODE(S):	2611, 2621
NAICS CODE(S):	322122, 322121
AFS CODE:	45091000005

C. FACILITY MAILING ADDRESS

FACILITY NAME:	Resolute FP US Inc.
ADDRESS:	P. O. Box 7
CITY, STATE, ZIP CODE:	Catawba, SC 29704

D. FACILITY BILLING ADDRESS

FACILITY BILLING NAME:	Resolute FP US Inc.
ADDRESS:	P. O. Box 7
CITY, STATE, ZIP CODE:	Catawba, SC 29704

PROPOSED

PART 2.0 APPLICABILITY [SC Regulation 61-62.70.3(a)]

Condition Number	Condition
2.1	The following sources are subject to permitting requirements of Part 70: 1. Any major source; 2. Any source, including an area source, subject to a standard, limitation, or other requirement under Section 111 of the Clean Air Act (Act); 3. Any source, including an area source, subject to a standard or other requirement under Section 112 of the Act, except that a source is not required to obtain a permit solely because it is subject to regulations or requirements under Section 112(r) of the Act; 4. Any affected source under the Title IV Acid Rain Program; 5. Any source in a source category designated by the Administrator of the US Environmental Protection Agency (US EPA) (Administrator) pursuant to this Section; and 6. Any source listed in SC Regulation 61-62.70.3(a) that is exempt from the requirement to obtain a permit under SC Regulation 61-62.70.3(b) may opt to apply for a permit under this Part 70 program.
2.2	The following source categories are exempted from the obligation to obtain a Part 70 permit, but are not exempted from other SC Department of Health and Environmental Control (Department) and US EPA requirements [SC Regulation 61-62.70.3(b)(4)]: 1. All sources and source categories that would be required to obtain a permit solely because they are subject to 40 CFR 60, Subpart AAA - Standards of Performance for New Residential Wood Heaters; and 2. All sources and source categories that would be required to obtain a permit solely because they are subject to 40 CFR 61, Subpart M - National Emission Standard for Hazardous Air Pollutants for Asbestos, Section 61.145, Standard for Demolition and Renovation.
2.3	Any person that operates or proposes to operate a particular source or installation may submit a request in writing that the Department make a determination as to whether a particular source or installation is subject to the permit requirements of Part 70. The request must contain such information as is believed sufficient for the Department to make the requested determination. The Department may request any additional information that it needs for purposes of making the determination. [SC Regulation 61-62.70.3(e)]

PART 3.0 GENERAL CONDITIONS

This part describes conditions and provisions applicable to all Part 70 sources. Specific source category conditions and requirements are contained in Part 5.0 of this permit.

A. PERMIT ISSUANCE [SC Regulation 61-62.70.7(a)(1)]

Condition Number	Condition
3.A.1	A Title V operating permit does not excuse any facility from the preconstruction permitting requirements under SC Regulation 61-62.1.
3.A.2	A permit, permit modification, or renewal may be issued only if the following conditions have been met: 1. The Department has received a complete application for a permit, permit modification, or permit renewal; 2. Except for modifications qualifying for minor permit modification procedures under SC Regulation 61-62.70.7(e)(2) and (3) the Department has complied with the requirements for public participation under SC Regulation 61-62.70.7(h);

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Condition Number	Condition
	3. The Department has complied with the requirements for notifying and responding to affected States under SC Regulation 61-62.70.8(b); 4. The conditions of the permit provide for compliance with all applicable requirements and the requirements of Part 70; and 5. The Administrator has received a copy of the proposed permit and any notices required under SC Regulation 61-62.70.8(a) and (b), and has not objected to issuance of the permit under SC Regulation 61-62.70.8(c) within the required time frame.

B. PERMIT RENEWAL AND EXPIRATION [SC Regulation 61-62.70.7(c)]

Condition Number	Condition
3.B.1	Permits being renewed are subject to the same procedural requirements, including those for public participation, affected State and US EPA review, that apply to initial permit issuance; and
3.B.2	Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with SC Regulation 61-62.70.5(a)(1)(iii), 62.70.5(a)(2)(iv), and 62.70.7(b). In this case, the permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of the permit including any permit shield that may be granted pursuant to SC Regulation 61-62.70.6(f) shall remain in effect until the renewal permit has been issued or denied.

C. SEVERABILITY [SC Regulation 61-62.70.6(a)(5)]

Condition Number	Condition
3.C.1	The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. FEE ASSESSMENT AND PAYMENT [SC Regulation 61-62.70.6(a)(7)]

Condition Number	Condition
3.D.1	The owners or operators of Part 70 sources shall pay fees to the Department consistent with the fee schedule approved pursuant to South Carolina Regulation 61-62.70.9.

E. SUBMITTAL OF INFORMATION [SC Regulation 61-62.70.6(a)(6)(v)]

Condition Number	Condition
3.E.1	The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request, in writing, to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. The Department may also request that the permittee furnish such records directly to the Administrator along with a claim of confidentiality.

F. PUBLIC PARTICIPATION [SC Regulation 61-62.70.7(h)]

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Condition Number	Condition
3.F.1	Except for modifications qualifying for minor permit modification procedure, all permit proceedings, including initial permit issuance, significant modifications, and renewals, shall provide adequate procedures for public notice including offering an opportunity for public comment and hearing on the draft permit. These procedures shall meet all requirements of SC Regulation 61-62.70.7(h).

G. PERMIT REOPENING [SC Regulation 61-62.70.7(f)]

Condition Number	Condition
3.G.1	The permit may be modified, revoked, reopened and reissued, or terminated for cause by the Department. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [SC Regulation 61-62.70.6(a)(6)(iii)]
3.G.2	This permit shall be reopened and revised under any of the following circumstances: 1. Additional applicable requirements under the Act become applicable to a major Part 70 source with a remaining permit term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement unless the regulation specifically provides for a longer compliance period. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to SC Regulation 61-62.70.7(c)(1)(ii). 2. Additional requirements, including excess emission requirements, become applicable to an affected source under the acid rain program. Excess emissions offset plans shall be deemed to be incorporated into this permit upon approval by the Administrator. 3. The Department or US EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit. 4. The Administrator or the Department determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3.G.3	Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be as expeditious as practicable. Reopenings shall not be initiated before a notice of such intent is provided to the Part 70 source by the Department at least thirty (30) days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

H. TEMPORARY SOURCES [SC Regulation 61-62.70.6(e)]

Condition Number	Condition
3.H.1	The Department may issue a single permit authorizing emissions from similar operations by the same source owner or operator at multiple temporary locations. The operation must be temporary and involve at least one change in location during the term of the permit. No sources subject to Title IV of the Act shall be permitted as a temporary source. Permits for temporary sources shall include all requirements of SC Regulation 61-62.70.6(e).

I. EMERGENCY PROVISIONS [SC Regulation 61-62.70.6(g)(3)]

PUBLISHED

Condition Number	Condition
3.I.1	In the case of an emergency, as defined in SC Regulation 61-62.70.6(g), the permittee shall demonstrate an affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that: 1. An emergency occurred and that the permittee can identify the cause(s) of the emergency; 2. The permitted facility was at the time being properly operated; and 3. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
3.I.2	Additionally, the permittee shall submit verbal notification of the emergency to the Department within twenty-four (24) hours of the time when emission limitations were exceeded, followed by written notifications within thirty (30) days. This notice fulfills the requirement of SC Regulation 61-62.70.6(a)(3)(iii)(B). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
3.I.3	This provision is in addition to any emergency or upset provision contained in any applicable requirement. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

J. PROPERTY RIGHTS [SC Regulation 61-62.70.6(a)(6)(ix)]

Condition Number	Condition
3.J.1	This permit does not convey any property rights of any sort, or any exclusive privilege.

K. ECONOMIC INCENTIVES, MARKETABLE PERMITS, EMISSION TRADING [SC Regulation 61-62.70.6(a)(8)]

Condition Number	Condition
3.K.1	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

L. TITLE IV SOURCES [SC Regulation 61-62.70.6(a)(4)]

Condition Number	Condition
3.L.1	Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator. [SC Regulation 61-62.70.6(a)(1)(ii)]
3.L.2	The permittee is prohibited from emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by a source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowances shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.

M. ADMINISTRATIVE PERMIT AMENDMENTS [SC Regulation 61-62.70.7(d)(3)]

APPROVED

Condition Number	Condition
3.M.1	An administrative permit amendment as defined in SC Regulation 61-62.70.7(d) can be made by the Department consistent with the following: 1. The Department shall take no more than sixty (60) days from receipt of a request for an administrative permit amendment to take final action on such request, and may incorporate such changes without providing notice to the public or affected States provided that it designates any such permit revisions as having been made pursuant to this paragraph. 2. The Department shall submit a copy of the revised permit to the Administrator. 3. The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request, except transfer/ownership which must comply with SC Regulation 61-62.1, Section II(M).

N. MINOR PERMIT MODIFICATIONS [SC Regulation 61-62.70.7(e)(2)]

Condition Number	Condition
3.N.1	Minor permit modifications can be made by the Department in accordance with SC Regulation 61-62.70.7(e)(2)(i). An application requesting the use of minor permit modification procedures shall meet the requirements of SC Regulation 61-62.70.5(c) and shall include items as specified in SC Regulation 61-62.70.7(e)(2)(ii).
3.N.2	The Department may modify the procedure outlined in SC Regulation 61-62.70.7(e)(2) to process groups of a source's applications for certain modifications eligible for minor permit modification processing. Group processing of minor permit applications will proceed as outlined in SC Regulation 61-62.70.7(e)(3).

O. SIGNIFICANT MODIFICATION PROCEDURES [SC Regulation 61-62.70.7(e)(4)]

Condition Number	Condition
3.O.1	Significant permit modification procedures shall be used for applications requesting permit modifications listed in SC Regulation 61-62.70.7(e)(4)(i). Significant permit modifications shall meet all requirements of Part 70, including those for applications, public participation, review by affected States, and review by US EPA, as they apply to permit issuance and permit renewal.

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P. DUTY TO COMPLY [SC Regulation 61-62.70.6(a)(6)(i)]

Condition Number	Condition
3.P.1	The permittee must comply with all of the conditions of this permit. Any permit noncompliance constitutes a violation of the SC Pollution Control Act and/or the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of permit renewal application.

Q. INSPECTION AND ENTRY [SC Regulation 61-62.70.6(c)(2)]

Condition Number	Condition
3.Q.1	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following: 1. Enter upon the permittee's premises where a Part 70 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit. 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. 3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. 4. As authorized by the Act and/or the SC Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

R. COMPLIANCE REQUIREMENTS [SC Regulation 61-62.70.6(c)(5)]

Condition Number	Condition
3.R.1	Consistent with SC Regulations 61-62.70.6(a)(3), 61-62.70.6(a)(3)(iii)(A), and 61-62.70.6(c)(5), this permit contains compliance certification, testing, monitoring, reporting, and record keeping requirements sufficient to assure compliance with the terms and conditions of this permit. Any submitted document (including reports) shall contain a certification by a responsible official that meets the requirements of SC Regulation 61-62.70.5(d).
3.R.2	The responsible official (as defined by 61-62.70.2(cc)) shall certify, annually, compliance with the conditions of this permit as required under SC Regulation 61-62.70.6(c). The compliance certification shall include the following: 1. The identification of each term or condition of the permit that is the basis of the certification. 2. The identification of the method(s) or means used for determining the status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in 61-62.70.6(c)(5)(iii)(B). The certification shall identify each deviation and take it into account in the compliance certification. 3. The status of compliance with the terms and conditions of the permit for the period covered by the certification. 4. Such other facts as the Department may require to determine the compliance status of the source.

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Condition Number	Condition
3.R.3	All annual compliance certifications shall be sent to the United States Environmental Protection Agency (US EPA) and the South Carolina Department of Health and Environmental Control - Bureau of Air Quality (SC DHEC - BAQ) at the following addresses: **US EPA, Region 4** **Air Enforcement Branch** **61 Forsyth Street** **Atlanta, GA 30303** **SC DHEC - BAQ** **Technical Management Section** **2600 Bull Street** **Columbia, SC 29201**
3.R.4	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality, at the address listed below, SC DHEC - BAQ Technical Management Section 2600 Bull Street Columbia, SC 29201
3.R.5	Reporting required in this permit, shall be submitted in a timely manner as directed in Part 6.0 of this permit.

S. RECORD KEEPING REQUIREMENTS [SC Regulation 61-62.70.6(a)(3)(ii)]

Condition Number	Condition
3.S.1	The permittee shall comply, where applicable, with the following monitoring/support information collection and retention record keeping requirements: 1. Records of required monitoring information that include the following: a. The date, place as defined in the permit, and time of sampling or measurements; b. The date(s) analyses were performed; c. The company or entity that performed the analyses; d. The analytical techniques or methods used; e. The results of such analyses; and f. The operating conditions as existing at the time of sampling or measurement; 2. Retention of records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

T. SCHEDULE OF COMPLIANCE [SC Regulation 61-62.70.5(c)(8)]

Condition Number	Condition
3.T.1	The permittee shall submit a compliance schedule that contains the following for all Part 70 sources that are not in compliance with all applicable rules: 1. A description of the source's compliance status and where appropriate a compliance schedule with respect to all applicable requirements as follows: a. For applicable requirements with which the source is in compliance, a statement that during the permit terms the source will continue to comply with such requirements. b. For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis, unless a more detailed schedule is expressly required by the applicable requirement. c. A schedule of compliance for sources that are not in compliance with all applicable requirements at the time of permit issuance. This schedule shall include a narrative

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Condition Number	Condition
	description of how the source will achieve compliance with such requirements, a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with all applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule shall be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such schedule of compliance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. 2. A schedule for submission of certified progress reports no less frequently than every six (6) months for sources required to have a schedule of compliance to remedy a violation. Progress reports shall meet the requirements of SC Regulation 61-62.70.6(c)(4)(i) and (ii). 3. The compliance plan content requirements specified in this paragraph shall apply and be included in the acid rain portion of a compliance plan for an affected source, except as specifically superseded by regulations promulgated under Title IV of the Act with regard to the schedule and method(s) the source will use to achieve compliance with acid rain emissions limitations

U. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE [SC Regulation 61-62.70.6(a)(6)(ii)]

Condition Number	Condition
3.U.1	It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

V. OPERATIONAL FLEXIBILITY [SC Regulation 61-62.70.7(e)(5)]

Condition Number	Condition
3.V.1	Changes under the Clean Air Act, Section 502(b)(10), are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. A permitted facility is authorized to make section 502(b)(10) changes within its facility without requiring a permit revision, if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit. The permitted facility shall provide the Administrator and the Department written notification as required by SC Regulation 61-62.70.7(e)(5) at least seven (7) days prior to such changes.

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PART 4.0 FACILITY WIDE REQUIREMENTS

Condition Number	Condition
4.1	In accordance with SC Regulation 61-62.1, Section II, the permittee must comply with all applicable Air Quality statutes and regulations of the United States and the State of South Carolina. This permit does not relieve the permittee from compliance with applicable local laws, ordinances, and regulations such as, but not exclusive to zoning, building permits, and other programs regulated by entities other than the Bureau of Air Quality.
4.2	Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in the air dispersion modeling may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment A of this permit. Higher emission rates may be administratively incorporated into Attachment A of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded. This is a State Only enforceable requirement.
4.3	The owner or operatorshall maintain this facility at or below the emission rates as listed in Attachment A, not to exceed the pollutant limitations of this Part 70 operating permit. Should the facility wish to increase the emission rates listed in Attachment A, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified in condition 4.2. This is a State Only enforceable requirement.
4.4	A list of equipment which are considered insignificant pursuant to SC Regulation 61-62.70.5(c) has been submitted with your Title V application and reviewed by the Department. The list, including source descriptions and citation for insignificant status, is summarized in Attachment B of the permit. Attachment B excludes those activities identified in Part A of the insignificant activities list. Written notification to the Bureau of Air Quality is required for the addition of any new equipment which may meet the definition of insignificant or exempt as described above, excluding those sources listed in Part A of the insignificant activities list.
4.5	In accordance with SC Regulation 61-62.1, Section II(J), for all sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence. The permittee shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ). The report shall contain as a minimum, the following: the identity of the stack and/or emission point where the excess emissions occurred, the magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions, the time and duration of excess emissions, the identity of the equipment causing the excess emissions, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction, the steps taken to limit the excess emissions, and documentation that control equipment, process equipment, and processes were at all times maintained and operated, to the maximum extent practicable, in a manner that was consistent with good practice for minimizing emissions. This defines the Department's definition of prompt in its relation to the degree of reporting as specified by SC Regulation 61-62.70.6(a)(3)(iii)(B).

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Condition Number	Condition
4.6	The owners or operators of Part 70 sources shall complete and submit a new updated emissions inventory consistent with the schedule approved pursuant to SC Regulation 61-62.1, Section III. This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility.
4.7	The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Protection of Stratospheric Ozone, Recycling and Emissions Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. If the permittee performs a service on motor (fleet) vehicles that involves ozone-depleting substance refrigerant in MVACs, the permittee is subject to all applicable requirements of 40 CFR Part 82, Subpart B, Servicing of MVACs.
4.8	The permittee shall comply with the standards of performance for asbestos abatement operations pursuant to 40 CFR Part 61.145 and SC Regulation 61-86.1, including, but not limited to, requirements governing training, licensing, notification, work practice, cleanup, and disposal.
4.9	The permittee shall comply with SC Regulation 61-62.4 "Hazardous Air Pollution Conditions".
4.10	The permittee shall comply with SC Regulation 61-62.2 "Prohibition of Open Burning".
4.11	The permittee shall comply with SC Regulation 61-62.6 "Control of Fugitive Particulate Matter", Section III "Control of Fugitive Particulate Matter Statewide".
4.12	The "Net Volatile Organic Compound (VOC) Emissions Increase" from this facility shall not exceed 100 tons since July 1, 1979. The "Net VOC Emissions Increase" includes any increases and decreases in the actual VOC emissions at the facility that have occurred since July 1, 1979 and are otherwise creditable. Increases in the VOC emissions from these existing sources may be subject to the applicability requirements of SC Regulation 61-62.5, Standard No. 5.1, Best Available Control Technology (BACT)/Lowest Achievable Emission Rate ("LAER") Applicable To Volatile Organic Compounds. Sources of VOC emissions that currently apply LAER are not included in the "Net VOC Emissions Increase" netting.
4.13	This facility is subject to the provisions of 40 CFR Part 60, Standards Of Performance For New Stationary Sources (NSPS) , Subparts A-General Provisions and BB-Standards Of Performance For Kraft Pulp Mills as well as SC Regulation 61-62.60 Subparts A-General Provisions and BB-Standards Of Performance For Kraft Pulp Mills. Whenever requirements of NSPS 40 CFR part 60 are referenced in this permit the corresponding parts of SC Regulation 61-62.60 are also applicable. In addition to meeting the applicable emission limitations the permittee shall comply with the applicable notification, performance testing, monitoring, record keeping, and reporting requirements listed in 40 CFR 60, Subparts A (§60.1-§60.19) and BB (§60.280-§60.285) and corresponding requirements of SC Regulation 61-62.60.
4.14	Resolute FP US Inc. is located in York County, South Carolina, which is part of the Charlotte/Gastonia/Rock Hill, North Carolina-South Carolina area designated under 40 CFR 81.341 as a non-attainment area for Ozone. The area is classified as moderate. Volatile organic compounds (VOC) and NO_X are surrogates for evaluating emission increases related to non-attainment new source review for Ozone. A construction permit for a project to increase pulp production (2440-0005-DA) triggered non-attainment NSR Review for the No. 3 Recovery Boiler. In addition to the requirement to install lowest available emission reduction (LAER) for NO_X emissions from this emission unit, the facility was required to provide NO_X emission offsets at a ratio of 1.15 to 1 as specified in South Carolina Regulation 61-62.5, Standard No. 7.1 (d)(vii)(b). The increase in NO_X for this project required the facility to obtain and maintain creditable and Federally enforceable offsets of 101.4 tons of NO_X prior to operation of the process modifications. Resolute FP US Inc. was issued a Certificate of Emission Reduction Credits (ERCs) from the North Carolina Division of Air Quality (Certificate No. 003336328ERC01) on June 1, 2006. [Note: Any use or transfer of banked ERCs shall be in accordance with North Carolina Regulation 15A NCAC 02D .2300 - Banking Emission Reduction Credits. The Director of the North Carolina DAQ may revoke or change the banked ERCs pursuant to North Carolina Regulation 15A NCAC 02D .2310 - Revocation and Changes of Emission Reduction Credits.]

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PART 5.0 EMISSION UNIT REQUIREMENTS

A. EMISSION UNIT DESCRIPTION

TABLE 5.1 EMISSION UNITS		
Unit ID	**Unit Description**	**Control Device Description**
01	Woodyard Area	N/A
02	Kraft Process- Kraft Pulp Mill	TRS Scrubber, Boiler Incineration
03	Kraft Process- Bleach Plant	Scrubber
04	Kraft Process- Chlorine Dioxide Plant	Scrubber
05	TMP Process	N/A
06	Paper Mill	Baghouses (2), Filters
07	Chemical Recovery	Boiler incineration, ESPs (3), Scrubbers (2), Baghouses (2)
08	Utilities	Cyclones, ESPs (2)
09	Waste Treatment	Boiler Incineration
10	Miscellaneous	N/A

Table 5.2 - Control Device(s)				
Unit ID	**Control Device ID**	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
02	2605	B & W No. 1 Combination Boiler	1959	VOC; TRS; HAP
02	3705	B & W No. 2 Combination Boiler	1968	VOC; TRS; HAP
02	5260C	LVHC System Caustic Scrubber	2000	VOC; TRS; HAP
03	5300C	Bleaching System Scrubber	2003	Cl_2; Chlorinated HAP
04	1790C	Chlorine Dioxide Generator Scrubber (chilled waster and white Liquor)	1997	Cl_2
04	1790Ca	Chlorine Dioxide Generator Tail gas Scrubber (weak wash and white liquor)	1997	Cl_2
06	B-2000	Starch Silo Bag Houses (2)	1962	PM/PM_{10}
07	2505C	No. 2 Recovery Furnace ESP	1990	PM/PM_{10}/HAP Metals
07	5105C	No. 3 Recovery Furnace ESP	1983	PM/PM_{10}/HAP Metals
07	5211C	Smelt Tanks Venturi Caustic Scrubber (weak wash and caustic)	1966	PM/PM_{10}/HAP Metals/TRS
07	2723C	No. 2 Lime Kiln ESP	1995	PM/PM_{10}/HAP Metals
07	2724C	Reburned Lime Silo Bag House	1995	PM/PM_{10}
07	2725C	Slaker Venturi Scrubber (weak wash and caustic)	1995	PM/PM_{10}
07	2726C	Purchased Lime Silo Bag House	1995	PM/PM_{10}
08	2605C	No. 1 Combination Boiler Centrifugal Cyclone	1959	PM/PM_{10}
08	2610C1	No. 1 Combination Boiler ESP	1959	PM/PM_{10}
08	3705C	No. 2 Combination Boiler Centrifugal Cyclone	1968	PM/PM_{10}
08	2610C2	No. 2 Combination Boiler ESP	1980	PM/PM_{10}
08	5260	LVHC Collection System	2001	VOC; TRS; HAP
08	5270	HVLC Collection System	2003	VOC; TRS; HAP
08	9820	Stripper Off Gases (Collection)	2001	VOC; TRS; HAP
09	9810	Condensate Steam Stripper	2001	VOC; TRS; HAP

N/A = Not Applicable

B. GENERIC CONDITIONS

Generic Conditions			
Condition Number	**Unit ID**	**Equipment ID**	**Condition**
GC1	01-09	All affected sources	All required gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level, control rooms, or easily accessible level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Unless specified otherwise in this permit, exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall indicate such. Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.
GC2	01-09	All affected sources	Unless otherwise specified in a condition, the owner or operator shall submit site-specific test plans or a letter which amends a previously approved test plan at least 45 days prior to the proposed test date. Prior to conducting a source test, the owner or operator shall ensure that written notification is submitted to the Department at least two weeks prior to the test date. Required source testing shall be conducted in accordance with South Carolina Regulation 61-62.1, Section IV – "Source Tests" and any applicable Federal regulation. Site specific test plans and test notifications shall be submitted as required. All source test and CMS evaluation reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality, no later than 30 days after the completion of the on-site testing unless additional time is approved by the Department.
GC3	01-09	All affected sources	The owner or operator shall maintain on file all required measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel for the duration required.
GC4	01-09	All affected sources	Unless elsewhere specified within this permit, all records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date following each generated occurrence, measurement, maintenance, corrective action, report, or record and shall be made available to a Department representative upon request. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on paper, on microfiche, on compact discs, on digital versatile discs, on removable storage drives, or any other mass data storage devices provided the permittee maintains any technology, equipment, software, or hardware necessary to access the stored data.

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Generic Conditions			
Condition Number	**Unit ID**	**Equipment ID**	**Condition**
GC5	02 07 08 09	All NSPS sources	The Permittee shall furnish the Manager of Engineering Services, Bureau of Air Quality (BAQ) written notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant, unless that change is specifically exempted under 40 CFR 60.14 (e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced. The report shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change and expected completion date of the change. The BAQ may request additional relevant information subsequent to this notice.
GC6	All	All	Equipment capacities provided under the Equipment Description column of the Equipment Tables in Part 5.C and Part 7.A.1 are not intended to be permit limits unless otherwise specified within the Table of Conditions for the particular equipment. However, this condition does not exempt the facility from the construction permitting process, from PSD review, nor from any other applicable requirements that must be addressed prior to increasing production rates.
GC7	03 04	CD-5300C CD-1790C CD-5260C	Operational ranges for the monitored parameters shall be reviewed and re-established, if necessary, to provide a reasonable assurance of compliance. Unless otherwise stated in a condition, these operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. If ranges need to be reestablished, these ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up/modification of the source. If the ranges do not change due to this addition/modification, an analysis of the review shall be stored on site. The operating ranges may be updated using this procedure, following Bureau approval.
GC8	03 04 07	5300, 1790, CD-5260C	Construction permit -DC requires that initially established and/or modified monitoring ranges as well as any changes be submitted to the Director of Engineering Services, Bureau of Air Quality. Monitoring ranges as well as any changes in emission factors should be sent to: **SCDHEC - BAQ** **Director of Engineering Services** **2600 Bull Street** **Columbia, SC 29201** The submittals of monitoring ranges should include Title V ID, Equipment No., and permit condition where the monitoring is used, a description of the equipment and control devices involved, the old monitoring ranges, the new monitoring ranges, the methods used to develop the new ranges or range changes, the rational used to select the new or modified ranges, and all information and data used in the development of new or modified ranges. NESHAP Part 61 and 63 monitoring ranges should also be sent with the information specified above to the Air Toxics Section using the procedures in Part 7 of this Title V permit. The submittals of emission factor changes should include the Title V ID, Equipment No., and permit condition where the emission factors are used for monitoring, the source (source test data, continuous monitoring system data, AP42 emission factor, NCASI emission factor etc.) of the old and new emissions factors, the reason for changing the emission factors, and the rational used to select the new emissions factors.

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C. EMISSION UNIT – LIMITATIONS, MONITORING AND REPORTING

[SC Regulation 61-62.1, Section II]; [SC Regulation 61-62.70.6(a)(3)(i)(B)]

Table 5.3 **- Unit ID 01 - Woodyard**

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
1300	East and West Woodyard Long Wood Handling (2) West Woodyard Purchased Chip Handling East Woodyard Purchased Chip Handling (Rail) East Woodyard Purchased Chip Handing (Truck) w/cyclone East Woodyard Purchased Chip Handling (Rail) Chip Screen East Woodyard Chip Screen with Cyclone West Woodyard Chip Screen East and West Woodyard Debarking Drums (2) East Woodyard Purchased Chip (Rail) Rechipper with Cyclone East Woodyard Chipper with Cyclone West Woodyard Chipper with Cyclone East Woodyard Rechipper with Cyclone West Woodyard Rechipper TMP and Kraft Mill Chip Silos Long Term Storage Pile Outside Chip Storage (2) Hardwood Silos Hardwood Silos Cyclone	1959/1985 and 1991	None	1300
1300	Truck Dump	2006	None	1300
1300	Rail Dump	2006	None	1300

Table 5.4 **- Control Device(s) For Unit ID 01 - Woodyard**

Control Device ID	Description	Installation Date/ Modification Date	Pollutant Controlled
None	None	None	None

Conditions For Unit ID 01 - Woodyard

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
01.1	•1300	•Fugitive PM •*SC Std. 4* •*SC Std. 62.6*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Woodyard (1300) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries (SC Std. 4}]* • *[SC Reg. 61-62.6 {Control of Fugitive Particulate Matter} (SC Std. 62.6)]* All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter (PM) becomes airborne. The owner or operator shall maintain dust

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Conditions For Unit ID 01 - Woodyard			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			control on the premises by suitable measures. Oil treatment is prohibited. *[SC Reg. 61-62.5, Std. 4, Sec. X(A) and X(B); §61-62.6]* **Testing**: Not required **Monitoring/Record Keeping/Reporting/Other: Visual Emissions Inspections (VE)-** The owner or operator shall perform VE to show compliance with SC Std 4 and SC Std. 62.6 fugitive emissions limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D).
01.2	1300	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: Woodyard (1300) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%. [*SC Reg. 61-62.5, Std. 4, Sec. IX(B)]* **Testing:** Not required **Monitoring/Record Keeping/Reporting/Other: Visual Emissions Inspections-Visual Emissions Inspections (VE)-**The owner or operator shall perform VE to show compliance with SC Std 4 Opacity limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D).
01.3	1300	•PM •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Woodyard (1300) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)]* Particulate matter (PM) emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, emission unit ID 01's allowable particulate matter emission limit is limited to the amount shown in the table below at its nominal production rating: *[SC Reg. 61-62.5, Std. 4, Sec. VIII(A) and VIII(B)]* **Table 01.3.T1 PM Limitations for ID 01:1300** **Equipment** | **PM Limit (lb/hr)** | **Process Weight Rate for Limit Calculation (tph)** 1300 (total) | ≤ 76.13 | 898 lb/hr = Pounds per hour tph = tons per hour **Testing:** Not Required

Conditions For Unit ID 01 - Woodyard			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Monitoring/Record Keeping/Reporting/Other: Visual Emissions Inspections (VE)- The owner or operator shall perform VE to show compliance with SC Std 4 PM limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D) .
1.4	1300	•PSD Significance Monitoring •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: Truck Dump (1300) See Facility Wide Condition FW.1 (Part 5, Section D) for SC Reg. 61-62.5, Std. 7(r) record keeping and reporting requirements for Construction Permit 2440-0005-DA.

Table 5.5 **- Unit ID 02 – Kraft Process: Kraft Pulp Mill**				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
5210	Continuous Digester System: (Digester Chip Bin, Continuous Digester, Chip Feed System, Blow Tank, Steam Economizer and Reboiler)	2003/2012	5270 2605 3705	2610S1 2610S2
5220	Turpentine Recovery System: (Gas Cooler, Condenser, Decanter)	2003	5260 5260C 5270 2605 3705	2610S1 2610S2
5230	Pulp Washing System: (Pressure Diffuser, Filtrate Tank, Brown Stock Liquor Surge Tank)	2003	5270 2605 3705	2610S1 2610S2
5240	Oxygen Delignification System: (No. 1 O_2 Reactor; Blow Tube; No. 1 Post O_2 Washer; No. 1 Post O_2 Filtrate Tank, No. 2 O_2 Reactor, Blow Tube, No. 2 Post O_2 Washer, No. 2 Post O_2 Filtrate Tank, Post O_2 Surge Tank) (FUTURE - O_2 mixer, O_2 reactor, booster pump)	2003/2012/ FUTURE	5270 2605 3705	2610S1 2610S2
5250	Knotting and Screening System: (HD Tank, Primary Knotter, Secondary Knotter, No. 1 Primary Screen, No. 2 Primary Screen, Secondary Screen, Tertiary Screen, Quaternary Screen, Cleaner, Shive Thickner, Screen Room Filtrate Tank, Screen Room Washer)	2003	5270 2605 3705	2610S1 2610S2

Table 5.6 **- Control Device(s) For Unit ID 02 – Kraft Process: Kraft Pulp Mill**			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
2605	B & W No. 1 Combination Boiler	1959	VOC; TRS; HAP
3705	B & W No. 2 Combination Boiler	1968	VOC; TRS; HAP
5260C	LVHC System Caustic Scrubber	2000	VOC; TRS; HAP
5260	LVHC Collection System	2001	VOC; TRS; HAP
5270	HVLC Collection System	2003	VOC; TRS; HAP

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Conditions For Unit ID 02 – Kraft Process: Kraft Pulp Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
02.1	5210 5220 5230 5240 5250	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (5210), •Turpentine Recovery System (5220), •Pulp Washing System (5230), •Oxygen Delignification System (5240), •Knotting and Screening System (5250) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%. *[SC Reg. 61-62.5, Sec. XI(B)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Not Required. This equipment processes and/or stores pulp and various pulping process liquors that have no potential visible emissions.
02.2	5210 5230	•TRS/SO_2 •*NSPS BB* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (5210), (5220), •Pulp Washing System (5230) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NSPS 40 CFR 60, Subparts A {General Provisions};BB {Standards Of Performance For Kraft Pulp Mills}; and SC Reg. 61-62.60 Subparts A and BB (NSPS BB)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The affected sources (5210 and 5230) are subject to all applicable requirements NSPS BB for total reduced sulfur (TRS) reduction The TRS content of the gases from the Continuous Digester System, and Pulp Washing System affected sources shall be less than or equal to 5 parts per million by volume on a dry basis corrected to 10 percent oxygen or each of these sources must be combusted in the No. 1 Combination Boiler (2605) and/or *No. 2 Combination Boiler* (3705) for TRS reduction. The TRS gases are subject to a minimum temperature of 1200° F for at least 0.5 second. Uncontrolled exhaust gases from the *Continuous Digester System* shall contain TRS less than 0.01 pounds per ton of air dried pulp. *[NSPS 40 CFR 60.283(a); §60.383(a)(1); §60.283(a)(1)(iii)]* A caustic scrubber in the LVHC collection system prior to the combination boilers (5260C-LVHC System Caustic Scrubber) is used as part of the control to reduce TRS and sulfur dioxide (SO_2) in streams from the digester. The scrubber in not vented to the atmosphere; gaseous emissions from the caustic scrubber shall be vented to the LVHC system. The specific sources in affected systems that require collection and control are listed in Table E-1 of ATTACHMENT E, which is considered a Federally enforceable part of this condition and permit. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:**

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Conditions For Unit ID 02 – Kraft Process: Kraft Pulp Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			(A) Continuous Parameter Monitoring for TRS: Affected Source: LVHC Scrubber [5260C]-The owner or operator shall continue to operate and maintain liquid flow and liquid pH indicators on each module of the LVHC System Caustic Scrubber. (5260C). These scrubber operating parameters shall be recorded at the frequency in Table 02.2.T1 below during source operation. The scrubber shall be in place and operational whenever processes controlled by the scrubbers are running, except during periods of scrubber malfunction or mechanical failure. **Table 02.02.T1 LVHC Parameter TRS Monitoring for 5260C Scrubber** **Monitoring Method/Requirements** | **Sampling Frequency/Averaging Time** **Monitoring:** (SC Std. 4 and NSPS BB) • Scrubber liquid flow indicator • Scrubber liquid pH indicator **Frequency**: At least once daily **Averaging**: No averaging Operational ranges for the monitored parameters have been established to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from stack test data and/or vendor certification, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. Semiannual reports, including any variances from established parameters and appropriate corrective action taken during the reporting period shall be submitted to the Department. If no incidences occurred during the reporting period then the report shall indicate such information. **(B): TRS Compliance Assurance Monitoring (CAM)-**The affected sources are subject to 40 CFR 64, CAM and shall comply with all applicable provisions. Bypass vent times and other TRS collection system losses will be the CAM indicator. The emissions are controlled at the boilers; therefore, see TRS conditions for the combination boilers (ID 08 Equipment No. 2605 and 3705) for specific CAM monitoring, record keeping, and reporting.
02.3	5210 5220 5230 5240 5250	•HAP •*MACT S*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of *NESHAP 40 CFR 63 Subparts A {General Provisions} and S-{National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry} (MACT S) for affected pulp system vents.* See Part 7.0 for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT S.
02.4	5210 5220 5230 5240 5250	•PSD Significance Monitoring •*SC Std. 7*	See Facility Wide Condition FW.1 (Part 5, Section D) for SC Reg. 61-62.5, Std. 7(r) record keeping and reporting requirements for Construction Permit 2440-0005-DA.

Table 5.7 - Unit ID 03 – Kraft Process: Kraft Bleach Plant				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**

***Table 5.7* - Unit ID 03 – Kraft Process: Kraft Bleach Plant**				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
5300	Four Stage $D_OE_{OP}D_1D_2$ Bleaching System: (D_OTower and Washer; E_{OP} Reactor, Washer and Filtrate Tank; D_1 Tower, Washer, and Filtrate Tank, D_2 Tower, Washer and Filtrate Tank, Acid Sewer, Alkaline Sewer)	2003/2012	5300C	5300S

***Table 5.8* - Control Device(s) For Unit ID 03 – Kraft Process: Kraft Bleach Plant**			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
5300C	Bleaching System Scrubber	2003	Cl_2; Chlorinated HAP

Conditions For Unit ID 03 – Kraft Process: Kraft Bleach Plant			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
03.1	5300, 5300C	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Four Stage $D_OE_{OP}D_1D_2$ Bleaching System The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4{Emissions from Process Industries} (SC Std. 4)]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%. [*SC Reg. 61-62.5 Std. No. 4, Sec. IX, Sec. B]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other: Continuous Parameter Monitoring for Opacity**-The owner or operator shall continue to operate and maintain the continuous parametric monitoring systems (CPMS) used for 40 CFR 63, Subparts A and S to monitor for compliance with SC Std. 4 opacity during source operation. The scrubber operating parameters shall be measured as shown in Table 03.1.T1 below. . Under the authority of §63.453(m) and §63.8(f), the owner or operator has been granted approval to monitor scrubber fan operational status (on/off) as an alternative to scrubber gas inlet flow for MACT S. The scrubber shall be in place and operational whenever processes controlled by the scrubbers are running, except during periods of scrubber malfunction or mechanical failure. *[SC Reg. 61-62.70(6)(a)(3)(i)(A) {Streamlining}]*

Table 03.1.T1 Kraft Bleach Plant Parameter Monitoring for Scrubber 5300C	
●**Type Monitoring:** •Title V; Parametric monitoring	**Reg. Requirement(s) Monitored: Pollutant(s):** •*SC Std. 4: Opacity*
●**Monitoring Method(s): Parameter(s):** •CPMS: Liquid recirculation (influent) flow •CPMS: Scrubber pH (effluent) flow • •CPMS: Fan operation (on/off)	**Monitoring Frequency: Averaging Time:** •Minimum of once every 15 minutes •Averaging Time: 3-hour averages
●**Monitoring Operation and Maintenance:** •40 CFR 63.8; §63.453(c) •Approved alternative MACT S monitoring	●**Data Collection Methods:** •Computer system/ manual record keeping

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Conditions For Unit ID 03 – Kraft Process: Kraft Bleach Plant			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Operational ranges for the monitored parameters shall be reviewed and re-established, if necessary, to provide a reasonable assurance of compliance (See ATTACHMENT H, Table H-1). Unless otherwise stated in a condition, these operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. If ranges need to be re-established, these ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up/modification of the source. If the ranges do not change due to this addition/modification, an analysis of the review shall be stored on site. The operating ranges may be updated using this procedure, following Bureau approval. This permit requires that initially established and/or modified monitoring ranges as well as any changes be submitted to the Director of Engineering Services, Bureau of Air Quality. Monitoring ranges as well as any changes in emission factors should be sent to: **SCDHEC - BAQ** **Director of Engineering Services** **2600 Bull Street** **Columbia, SC 29201** The submittals of monitoring ranges should include Title V ID, Equipment No., and permit condition where the monitoring is used, a description of the equipment and control devices involved, the old monitoring ranges, the new monitoring ranges, the methods used to develop the new ranges or range changes, the rational used to select the new or modified ranges, and all information and data used in the development of new or modified ranges. NESHAP Part 61 and 63 monitoring ranges should also be sent with the information specified above to the Air Toxics Section using the procedures in Part 7 of this Title V permit. The submittals of emission factor changes should include the Title V ID, Equipment No., and permit condition where the emission factors are used for monitoring, the source (source test data, continuous monitoring system data, AP42 emission factor, NCASI emission factor etc.) of the old and new emissions factors, the reason for changing the emission factors, and the rational used to select the new emissions factors. Semiannual reports, including any variances (any 3-hour average outside of established ranges) from established parameters and appropriate corrective action taken during the reporting period shall be submitted to the Department. If no incidences occurred during the reporting period then the report shall indicate such information.
03.2	5300	•HAP (Bleach vents) •*MACT S*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of *NESHAP 40 CFR 63 Subparts A {General Provisions} and S-{National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry} (MACT S) for affected bleaching pulp system vents.* See Part 7.0 for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT S.

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Conditions For Unit ID 03 – Kraft Process: Kraft Bleach Plant			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
03.3	5300	•PSD Significance Monitoring •*SC Std. 7*	See Facility Wide Condition FW.1 (Part 5, Section D) for SC Reg. 61-62.5, Std. 7(r) record keeping and reporting requirements for Construction Permit 2440-0005-DA.

Table 5.9 - Unit ID 04 – Kraft Process: Chlorine Dioxide Generator				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
1790	Chlorine Dioxide Generator: (Generator/Crystallizer/Reboiler , Saltcake Slurry Tank, Hydroclone and Saltcake Filter, Generator Dump Tank, Indirect cooling tower, ClO_2 Adsorption Tower, Barometric Condenser, Seal Pot, ClO_2 Storage Tanks (212,000 gallons), Filtrate Separation System	1977/1997/2012	1790C 1790Ca	1790

Table 5.10 - Control Device(s) For Unit ID 04 – Kraft Process: Chlorine Dioxide Generator			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
1790C	Chlorine Dioxide Generator Scrubber (chilled water and white Liquor)	1997	Cl_2

Conditions For Unit ID 04 – Kraft Process: Chlorine Dioxide Generator			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
04.1	1790, 1790C	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Chlorine Dioxide Generator (1790) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%. *[SC Reg. 61-6.5, Std. 4, Sec. IX(A)]* **Testing:** Not required **Monitoring/Record Keeping/Reporting/Other: Continuous Parameter Monitoring for Opacity**-The owner or operator shall continue to operate and maintain pressure drop indicators, liquid flow meters, and liquid pH indicators on Chlorine Dioxide Generator Scrubber. The scrubber operating parameters shall be recorded as shown in Table 04.1.T1 below during source operation. The scrubber shall be in place and operational whenever processes controlled by the scrubbers are running, except during periods of scrubber malfunction or mechanical failure. **Table 04.1.T1 ClO_2 Generator Parameter Monitoring for Scrubber 1790C**

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Conditions For Unit ID 04 – Kraft Process: Chlorine Dioxide Generator			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			●Type Monitoring: •Title V; Parametric monitoring **●Reg. Requirement(s) Monitored: Pollutant(s):** •*SC Std. 4*: Opacity **Monitoring Method(s): Parameter(s):** •CPMS: Scrubber pressure drop indicator •CPMS: Scrubber liquid flow indicator •CPMS: Scrubber liquid pH indicator **Monitoring Frequency: Averaging Time:** •Frequency: At least once daily •Averaging Time: None **Monitoring Operation and Maintenance:** • CPMS calibration and QA/QC program **Data Collection Methods:** •Computer system/ manual record keeping Operational ranges for the monitored parameters shall be reviewed and re-established, if necessary, to provide a reasonable assurance of compliance (See ATTACHMENT H, TABLE H-1). Unless otherwise stated in a condition, these operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. If ranges need to be re-established, these ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up/modification of the source. If the ranges do not change due to this addition/modification, an analysis of the review shall be stored on site. The operating ranges may be updated using this procedure, following Bureau approval. This permit requires that initially established and/or modified monitoring ranges as well as any changes be submitted to the Director of Engineering Services, Bureau of Air Quality. Monitoring ranges as well as any changes in emission factors should be sent to: **SCDHEC - BAQ** **Director of Engineering Services** **2600 Bull Street** **Columbia, SC 29201** The submittals of monitoring ranges should include Title V ID, Equipment No., and permit condition where the monitoring is used, a description of the equipment and control devices involved, the old monitoring ranges, the new monitoring ranges, the methods used to develop the new ranges or range changes, the rational used to select the new or modified ranges, and all information and data used in the development of new or modified ranges. NESHAP Part 61 and 63 monitoring ranges should also be sent with the information specified above to the Air Toxics Section using the procedures in Part 7 of this Title V permit. The submittals of emission factor changes should include the Title V ID, Equipment No., and permit condition where the emission factors are used for monitoring, the source (source test data, continuous monitoring system data, AP42 emission factor, NCASI emission factor etc.) of the old and new emissions factors, the reason for changing the emission factors, and the rational used to select the new emissions factors. Semiannual reports, including any variances (any operating parameter outside the established range) from established parameters and appropriate corrective action taken during the reporting period shall be submitted to the Department. If no incidences occurred during the reporting period then the report shall indicate such information.
04.2	1790	•ClO_2	**Limits/Standards [State Only: No]:** The following are affected source(s) for this

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Conditions For Unit ID 04 – Kraft Process: Chlorine Dioxide Generator			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
		•SC Chemical Accident Provisions	condition: •Chlorine Dioxide Generator-Chlorine Dioxide Storage Tanks (1790) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Regulation 61-62.68 {Chemical Accident Prevention Provisions}]* It has been determined that the Chlorine Dioxide (ClO_2) storage tank is subject to South Carolina Regulation 61-62.68, Chemical Accident Prevention Provisions, due to in-process storage or use of a regulated substance, ClO_2, in quantities above the specified threshold and that a risk management plan (RMP) has already been submitted to the EPA; therefore, the following must be completed: • Submittal of subsequent revisions/updates of the RMP in accordance with SC Regulation 61-62.68.190. • If it is determined by the Department that additional relevant information is needed, this facility will be required to submit the information in a timely manner. • For Program 1 processes, the owner or operator shall submit along with the RMP the certification statement provided in Section 68.12(b)(4). For all other covered processes, the owner or operator shall submit along with the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete.[1] **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Not Required

Table 5.11 - Unit ID 05 – TMP Process				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
4400	TMP Lines 1-6 (The following equipment is shared): (Chip Conveyor Chip Washing System: Chip Washer and Screens (3 Sets), Chip Storage Silos (3), Pin Chip Screen Cyclone, Chip Surge Bins (2)(7,481 gallons), Heat and Turpentine Recovery System: Flash Tanks, Surge Tanks, Liquid Phase Separators (1,5204 gallons each), Condensers, Decanter (2,880 gallons)	1986	None	4400
4400	TMP Lines 1-3: (Primary, Secondary, and Tertiary Refiner System, Peroxide Towers, Neutralization Chests, Screening and Cleaning systems, Rejects Refiner Systems, Press System, Decker System, Sodium Hydrosulfite Bleaching System)	1986	None	4400

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Table 5.11 **- Unit ID 05 – TMP Process**				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
4400	TMP Lines 4-6: (Primary, Secondary, and Tertiary Refiner System, Screening and Cleaning Systems, Rejects Refiner Systems, Press System, Decker System, Sodium Hydrosulfite Bleaching System)	1986/2003	None	4400
4400	Hydrogen Peroxide Bleaching System	2005	None	4400

Table 5.12 **- Control Device(s) For Unit ID 05 – TMP Process**			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
None	None	None	None

Conditions For Unit ID 05 – TMP Process			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
05.1	4400	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •TMP Process (4400) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Regulation 61-62.5, Standard No. 4{Emissions from Process Industries (SC Std. 4)}]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%. *[SC Reg. 61-62.5, Std. 4, Sec. IX(B)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Not Required. This equipment processes and/or stores TMP pulp and pulp liquors that have no potential visible emissions.
05.2	4400	•Production •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •TMP Process (4400) **Limits/Standards**: The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg.61-62.5, Standard No. 7 {PSD} (SC Std. 7)];* The TMP process is limited to an annual production of 456,300 air died tons of pulp per year to support facility wide prevention of significant deterioration (PSD) activities. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** The owner or operator is permitted to manufacture 456,300 air dried tons pulp per year. The facility must record monthly pulp production and calculate a twelve-month rolling sum. Records of pulp production shall be maintained on site.

Table 5.13**- Unit ID 06 – Paper Mill**

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Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
2000	No. 1 Paper Machine (171,850 ADT Paper/Year): (cleaner system, deculator system, precondenser system, vacuum pump system, screen system, mix tub, headbox system, forming wire, vacuum blower, vacuum trench, save-all system, presses, separators, press pulper, dryer systems, dryer pulper, calendar, dry end pulper, reel, slurry mix tanks, mix tanks)	1962	None	2000
2005	No. 1 Paper Machine Rereeler and Trim Pulper	1962	None	2000
2010	No. 1 Coater Dryer (Natural Gas fired, Propane, Kerosene): (coater system, coating dryer, screens/filters, reel, and coated broke pulper)	1962	None	2000
4600	No. 2 Paper Machine (261,600 ADT Paper/Year): (cleaner system, deculator system, precondenser, vacuum pump system, screen system, headbox system, forming wire, vacuum blower, vacuum trench, save-all system, press system, press pulper, dryer systems, dryer pulper, calendar, dry end pulper, reel, slurry mix tanks, mix tanks)	1986	None	4600
4605	No. 2 Paper Machine Rereeler and Trim Pulper	1986	None	4600
4610	No. 2 Coater Dryer (Natural gas fired, Propane) (coating system, coating dryer, screens/filters, reel, and coated broke pulper)	1986	None	4600
4100	No. 3 Lightweight Coated Paper Machine (382,917) ADT Paper/Year): (mixed stock chest, die mix tank, filters, cleaner system, deculator system, precondenser, mixing silo, vacuum pump system, vacuum trench, screen system, headbox system, mix eliminator, vacuum blowers, forming wire, press system, press pulper, dryer systems, economizer, dry end pulper, two-sided rod coater system, coating preparation system, coating mix tank, coating supply tank, steam dryer; calenders, calender pulper, reel, reel pulper, winder, trim pulper)	1968/2003	None	4100
4110	Air Flotation Dryer (Natural Gas)	1968/2003	None	4110
4120	Infrared Dryer	1968/2003	None	4120
4130	Hot Oil Heating System	1968/2003	None	4130
2100	Pulp Dryer (296,300 ADT Paper/Year): (screen system, decker, headbox system, cylinder mold, hood exhaust system, vacuum system, press system, press pulper, dryers, economizer, dry end pulper, cutter, stacker)	1959/1999	None	2100
2100	Booster Oven	1999	None	2100
9900	5.304 10^6 Btu/hr Units (3)	2000	None	9900
9900	5.46 10^6 Btu/hr Units (6)	2000	None	9900
9900	6.253 10^6 Btu/hr Units (2)	2000	None	9900
9900	7.02 10^6 Btu/hr Units (2)	2000	None	9900
9900	7.28 10^6 Btu/hr Unit (1)	2000	None	9900
9900	8.45 10^6 Btu/hr Units (4)	2000	None	9900
9900	10.01 10^6 Btu/hr Unit (1)	2000	None	9900

DISCUSSED

Table 5.13- Unit ID 06 – Paper Mill				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
9700	Starch Silos [4], Slurry Mix tanks, Starch Cookers, Flash Tank, Mix Tanks	1962	B-2000	B-2000
9701A	1,400 gallon Slurry Tank	2002	None	9701A
9701B	1,400 gallon Slurry Tank	2002	None	9701B
9702	Starch Cooker	2002	None	9702
9703	Flash Tank	2002	None	9703
9704	2,900 gallon Paste Tank	2002	None	9704

Table 5.13-Control Device(s) For Unit ID 06 – Paper Mill			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
B-2000	Starch Silo Bag Houses (2)	1962	PM/PM_{10}

Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
06.1	2000 2005 4100 4110 4600 4605 9700 9701A 9701B 9702 9703 9704	•Opacity •PM •*SC Std. 4* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: See Table 06.1. **Opacity Limitations:** The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries (SC Std. 4)}]* • *40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* Where construction or modification began on or before December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 40% for the affected sources. Construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20% for the affected sources. As such, Opacity limitations for the affected sources are shown in the table below: *[SC Reg. 61-62.5, Std. 4, and Section. IX(A) and IX(B)]*

Table 06.1.T1 ID 02 Opacity Limitations for Various Equipment		
Equipment	**Affected Source Description**	**Opacity Limit (%)**
2000	No. 1 Paper Machine	≤ 40
2005	No. 1 Paper Machine Rereeler and Trim Pulper	≤ 40
4600	No. 2 Paper Machine	≤ 20
4605	No. 2 Paper Machine Rereeler and Trim Pulper	≤ 20
4100	No. 3 Paper Machine	≤ 20
4110	No. 3 Paper Machine Flotation Dryer	≤ 20
9700	Starch Silos	≤ 20
9701A	Slurry Tank	≤ 20
9701B	Slurry Tank	≤ 20
9702	Starch Cooker	≤ 20
9703	Flash Tank	≤ 20
9704	Paste Tank	≤ 20

≤ = Less than or equal to

Particulate Matter (PM) Limitations: The affected source(s) are subject to all

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Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**

applicable limits and requirements of the following regulation(s) (reg.):

- *[SC Reg.. 61-62.5, Standard No. 4 {Emissions from Process Industries (SC Std. 4)}]*
- *[40 CFR 64 {Compliance Assurance Monitoring (CAM)] (9700)*

The affected sources are subject to all applicable requirements of SC Std. 4. Particulate matter (PM) emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, the allowable PM emissions limit for the affected sources is limited to the amount shown in the table below at its nominal production rating: *[SC Reg. 61-62.5, Std. 4, Sec. VIII(A) and VIII(B)]*

Table 06.1.T2 PM Limitations for ID 06:Various Equipment

Equipment	PM Limit (lbs/hr)	Process Weight Rate (tons/hr)
Total for 2000 and 2005	≤ 30.12	19.6
Total of 4100 and 4110	≤ 43.34	43.7
Total of 4600 and 4605	≤ 39.91	29.9
9700	≤ 41.57	36.0
Total for 9701A, 9701B, 9702, 9703, and 9704	≤ 2.68	0.53

≤ = Less than or equal to

Informational Note: The *Air Flotation Dryer* (4110) is also subject to a prevention of significant deterioration (PSD) best available control technology (BACT) PM limit which must be met.

Testing: Not Required.

Monitoring/Record Keeping/Reporting/Other:
(A): Visible Emissions Inspections (VE) -The owner or operator shall conduct VE to show compliance with SC Std 4 Opacity and PM limitations in accordance with the listed affected sources, frequencies, and procedures in Facility Wide Condition FW.4 (Part 5, Section D).

(B): Compliance Assurance Monitoring (CAM) for PM: Affected Sources: Starch Silos Baghouses (2) [B-2000]-The affected source, Starch Silos (4), is subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) and shall comply with all applicable provisions. To meet the requirements of 40 CFR 64 for the bag houses (2) for the starch silos (B-2000), the indicator for PM will be visual inspections (VE), which will be used to provide reasonable assurance of compliance with South Carolina Standard 4 requirements.

VE means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), and cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.

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Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 07.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. [§64.6(c)(1)(iii) and 64.3(b)] **Table 06.1.T3 Starch Silos CAM Parameter Monitoring for Bag Houses (2) B-2000** **PM Monitoring Method/Requirements** | **Sampling Frequency/Averaging Time** **Monitoring:** (SC Std. 4) • Visual Inspections (VE) **Data collection**: Manual record keeping | **Frequency:** Once per day while unloading **Averaging:** No averaging Operational ranges for the CAM indicator have been established to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from vendor information and visual observations, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. Upon detecting an excursion, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). A semiannual report for monitoring shall include, at a minimum, the information required under § 70.6(a)(3)(iii) and the following information as applicable: • Summary information of the number, duration and cause (including unknown cause, if applicable) of excursions, as applicable, and the corrective actions taken; • Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero span or other daily calibration checks, if applicable); • If applicable, a description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions occurring. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective action, and quality improvement plans.
06.2	2010 4120 4130 4610 9900	•Opacity *•SC Std. 1*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Coater Dryer (2010), •No. 2 Coater Dryer (4610), •Infrared Dryer (4120), •Hot Oil Heating System (4130); •Air Makeup Units (9900) The affected source(s) are subject to all applicable limits and requirements of the

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Conditions For Unit ID 06 – Paper Mill

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 1 {Emissions from Fuel Burning Operations (SC Std. 1)}]* The affected sources are subject to all applicable requirements of SC Std. 1. Sources constructed prior to February 11, 1971 shall not discharge into the ambient air smoke which exceeds an opacity of 40% for the affected source. Sources constructed on or after February 11, 1971 shall not discharge into the ambient air smoke which exceeds an opacity of 20%. As such, Opacity limitations for the affected sources are shown in the table below: *[SC Reg. 61-62.5, Std. 1, Section I(A)]* **Table 06.2.T1 ID 02 Opacity Limitations for Various Equipment** **Equipment** / **Affected Source Description** / **Opacity Limit (%)** 2010 / No. 1 Coater Dryer / ≤ 40 4610 / No. 2 Coater Dryer / ≤ 40 4120 / Infrared Dryer / ≤ 20 4130 / Hot Oil Heating System / ≤ 20 9900 / Air Makeup Units / ≤ 20 ≤ = Less than or equal to The opacity standards set forth above do not apply during startup or shutdown. The owner or operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. *[SC Reg. 61-62.5, Std. 1, Sec. I(A) and I(C)]* **Testing**: Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Startup/Shutdown Log**: Affected Sources: The owner or operator shall maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request. *[SC Reg. 61-62.5; Std. 1, Sec. I(C)]* **(B): Visual Emission Inspections (VE)-**The owner or operator shall perform VE to show compliance with SC Std 1 Opacity limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D). Required reports should include the kerosene use for the Infrared Dryer (4120) and the Hot Oil Heating Sysem (4130), any abnormal emissions, and any corrective action taken during the reporting period. If no kerosene is burned in this source during the reporting period, it shall be so noted in the report.
06.3	2010 4120 4130 4610 9900	•PM •*SC Std. 1*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Coater Dryer (2010), •Infrared Dryer (4120), •Hot Oil Heating System (4130), •No. 2 Coater Dryer (4610), •Paper Machine Air Make Up Units (9900) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): ▪ *[SC Reg. 61-62.5, Standard No. 1 {Emissions from Fuel Burning Operations} (SC Std. 1]* The allowable discharge of particulate matter (PM) resulting from the fuel burning operations is 0.6 pounds per million Btu input for the affected sources. *[SC Reg. 61-62.5, Std. 1, Sec. II]*

Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Testing: Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Fuel Use: Affected Source: No. 1 Coater [2010]-**The affected sources are allowed to burn only natural gas as a primary fuel, with propane and kerosene as a back up fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. Records of fuel shall be kept on site. **(B): Fuel Use: Affected Sources: Infrared Dryer [4120] and Hot Oil Heating System [4130]-**The affected sources are allowed to burn only natural gas as a primary fuel, with propane and kerosene as a back up fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. The owner or operator shall record the monthly use of each fuel and calculate a twelve-month rolling sum for each fuel combusted by affected source. Records of fuel shall be kept on site. Reports of fuel usage shall be submitted to the Department semiannually. **(C): Fuel Use: Affected Source: No. 2 Coater [4610]-**The affected source is permitted to burn natural gas (no limit); 3,000,000 gallons of kerosene per year and 475,000 gallons propane per year. The facility must record fuel consumption and calculate a twelve-month rolling sum. Records of fuel consumption shall be maintained on site. Reports of fuel usage shall be submitted to the Department semiannually. **(D): Fuel Use: Affected Sources: Paper Machine Make Up Air Units [9900]-**This source is permitted to burn 631,540,000 standard cubic feet of natural gas/year (total for all units) and 1,428,571 gallons propane per year (total for all units). The facility must record fuel consumption and calculate a twelve-month rolling sum. Records of fuel consumption shall be maintained on site. Reports of fuel usage shall be submitted to the Department semiannually.
06.4	4110	•PM •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Air Flotation Dryer (4110) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): ▪ *[SC Reg. 61-62.5, Standard No. 7 {PSD (SC Std. 7)}]* The affected source is subject to all applicable requirements of SC Std. 7. The emissions of particulate matter (PM) from the affected source is limited to 0.0164 pounds per million Btu or less in order to meet prevention of significant deterioration (PSD) best available control technology (BACT) requirements. This source is also subject to less stringent PM requirements of SC Std. 4, which must also be met. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other: Fuel Use:** This source is permitted to burn only natural gas as the primary fuel and propane and kerosene as backup. The owner or operator shall record fuel usage on a monthly basis. These records shall be summed for annual fuel usage (per fuel) and the records shall be maintained on site. Semiannual Reports of fuel usage and compliance with the PSD BACT limit of 0.0164 lbs/million Btu input shall be submitted to the Department semiannually.
06.5	2010 4120	•SO_2	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Coater Dryer (2010), •Infrared Dryer (4120), •Hot Oil Heating System

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Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
	4130 4610 9900	•*SC Std. 1*	(4130), •No. 2 Coater Dryer (4610), •Paper Machine Air Make Up Units (9900) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 1 {Emissions from Fuel Burning Operations} (SC Std. 1)]* The affected source is subject to all applicable requirements of SC Std. 1. The maximum allowable discharge of sulfur dioxide (SO_2) resulting from the fuel burning operations is 3.5 pounds per million Btu input for affected source. *[SC Reg. 61-62.5, Std. 1, Sec. III]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Fuel Use: Affected Source: No. 1 Coater [2010]**- The affected sources are allowed to burn only natural gas as a primary fuel, with propane and kerosene as a back up fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau. Records of fuel shall be kept on site. **(B): Fuel Use: Affected Sources: Infrared Dryer [4120] and Hot Oil Heating System [4130]**-These affected sources are allowed to burn only natural gas as a primary fuel, with propane and kerosene as a back up fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. The owner or operator shall record the monthly use of each fuel and calculate a twelve-month rolling sum for each fuel combusted by affected source. Records of fuel shall be kept on site. Reports of fuel usage shall be submitted to the Bureau semiannually. *[SC Reg. 61-62.5, Std. 1, Section VI]* **(C): Fuel Use: Affected Source: No. 2 Coater [4610]** -This affected source is permitted to burn natural gas (no limit); 3,000,000 gallons of kerosene per year and 475,000 gallons propane per year. The facility must record fuel consumption and calculate a twelve-month rolling sum. Records of fuel consumption shall be maintained on site. Reports of fuel usage shall be submitted to the Bureau semiannually. *[SC Reg. 61-62.5, Std. 1, Section VI]* **(D): Fuel Use: Affected Source: Paper Machine Make Up Air Units [9900]**-This source is permitted to burn 631,540,000 standard cubic feet of natural gas/year (total for all units) and 1,428,571 gallons propane per year (total for all units). The facility must record fuel consumption and calculate a twelve-month rolling sum. Records of fuel consumption shall be maintained on site. Reports of fuel usage shall be submitted to the Department semiannually. *[SC Reg. 61-62.5, Std. 1, Section VI]*
06.6	4610 9900	•NO_X •*SC Synthetic Minor*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Coater Dryer (4610), •Paper Machine Air Make Up Units (9900) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.1, Section. II(E) {General Requirements-Synthetic Minor} (SM)]* The affected source is subject to all applicable requirements of SC Synthetic Minor permitting. The emissions of Nitrogen Oxides (NO_X) for each affected source (4610 and 9900) subject to a South Carolina synthetic minor limitation of less than 40 tons per year

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Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			in order to avoid prevention of significant deterioration (PSD) review. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Fuel Use: Affected Source: No. 2 Coater [4610]**-The affected source is permitted to burn natural gas (no limit); 3,000,000 gallons of kerosene per year and 475,000 gallons propane per in paper machine coater No. 2. The facility must record fuel consumption and calculate a twelve-month rolling sum. Records of fuel consumption shall be maintained on site. Semiannual Reports of fuel usage shall be submitted to the Department semiannually. **(B): Fuel Use: Affected Source: Paper Machine Make Up Air Units [9900]**-This source is permitted to burn 631,540,000 standard cubic feet of natural gas/year (total for all units) and 1,428,571 gallons propane per year (total for all units). The facility must record fuel consumption and calculate a twelve-month rolling sum. Records of fuel consumption shall be maintained on site. Reports of fuel usage shall be submitted to the Bureau semiannually.
06.7	4110	•NO_X •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Air Flotation Dryer (4100) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)]* The affected source is subject to all applicable requirements of SC Std. 7 {PSD}. This source must utilize low nitrogen oxides (NO_X) Burner(s) to meet prevention of significant deterioration (PSD) best available control technology (BACT) requirements. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Not Required. The requirement is only to install and operate low NO_X burners.
06.8	2010	•VOC •*SC Std. 5*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: No. 1 Coater Dryer (2010) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 5 {Volatile Organic Compounds} (SC Std. 5)]* The affected units are subject to all applicable requirements of SC Std. 5. The affected paper web coater shall not discharge into the atmosphere of any volatile organic compounds (VOC) in excess of 2.9 pounds per gallon (0.35 kilograms per liter) of coating, excluding water and exempt solvents, delivered to the paper coating applicator system. The facility will use the low solvent technology option allowed by this regulation to comply with the VOC emission requirements. *[SC Reg. 61-62.5, Std. 5, Section. I(A), Section I(B), and Section II(C)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** The owner or operator shall maintain

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Conditions For Unit ID 06 – Paper Mill			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			daily records of operations. The records shall include, but not be limited to, the following: *[SC Reg. 61-62.5, Section I(F)]*: • The standard number and part applicable to the operation for which the records are being maintained. • The application method and substrate type (metal, plastic, paper, etc.). • The amount and type of adhesive, coatings (including catalyst and reducer for multicomponent coatings), solvent, and/or graphic arts material used at each point of application, including exempt compounds. • The VOC content as applied in each adhesive coating, solvent, and/or graphic arts material. • The date for each application of adhesive coating, solvent, and/or graphic arts material. • The amount of surface preparation, clean-up, or wash-up solvent (including exempt compounds) used and the VOC content of each. VOC content shall be calculated using a percent solids basis (less water and exempt solvents) for adhesives, coatings, and inks; using EPA Reference Method 24, July 1, 1989. Once initial VOC content calculations have been made for existing adhesives, coatings, and inks, only new or modified adhesives, coatings, and inks must be tested for VOC content. Records must be kept in units necessary to verify compliance, i.e. lb VOC/gal of coating less water and exempt solvents for surface coating.
06.9	2000 2010 2100 4600 4610 4100 4110 4120 4130	•PSD Significance Monitoring •*SC Std. 7*	See Facility Wide Condition FW.1 (Part 5, Section D) for SC Reg. 61-62.5, Std. 7(r) record keeping and reporting requirements for Construction Permit 2440-0005-DA for the affected sources.
06.10	2005 2010 4605 4610	•HAP (Paper coating) •*MACT JJJJ*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of *NESHAP 40 CFR 63, Subparts A {General Provisions} and JJJJ {National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating} (MACT JJJJ for paper coating systems..* See Part 7.0 for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT JJJJ.

Table 5.15- Unit ID 07 – Chemical Recovery				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
2505	No. 2 Recovery Furnace (412,140 Ton BLS/year) [315,000 lb/hr Maximum steaming rate (on black liquor only)]: (Furnace, Black Liquor Tanks)	1966	2505C	2505S
2510	No. 2 Smelt Dissolving Tank (412,140 Ton BLS/year)	1966	2511C	2511S
2515	No. 2 Precipitator Mix Tank	1966	None	2515
2520	No. 2 Salt Cake Mix Tank	1966	2505C	2505S

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Table 5.15- Unit ID 07 – Chemical Recovery				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
5105	No. 3 Recovery Furnace (744,600 T BLS/year) [560,000 lb/hr Maximum steaming rate (on black liquor only)]: (Furnace, Black Liquor Tanks, Black Flash Tanks, Condensate Flash Tanks, Soap Stand Pipe, Stand Pipe Level Control Tank, Dissolving Tank)	1983;2003;2007	5105C	5105S
5115	No. 3 Precipitator Mix Tank	1966	None	5115
5120	No. 3 Salt Cake Mix Tank	1966	5105C	5105S
5110	No. 3 Smelt Dissolving Tank (744,600 T BLS/year)	1983	2511C	2511S
2723	No. 2 Lime Kiln (465 T CaO/day)	1995;2003;2010	2723S2	2723
2700	Green liquor Blend Tank, No. 1 Green Liquor Clarifier (172,730 gallons) , No. 2 Green Liquor Clarifier (845,000 gallons), No. 3 Green Liquor Clarifier (845,000 gallons) , Dregs Filter , Ejector , Green Liquor Storage, Green Liquor Storage Causticizers (3) (18,394 gallons each, White Liquor Pressure Filters, Mud Washer, Lime Mud Precoat Filters , Lime Mud Pre-dryer	1995	None	2700
2700	No. 4 Causticizer (62,555 gallons)	2003	2725C	2700
2701	Slaker	1995	2725C	2701
2702	Purchased Lime Silo	1995	2726C	2702
2703	Reburned Lime Silo	1995	2724C	2703
2400	No. 1 Multi-Effect Evaporator Set (with new concentrator)	1959/2006/2012	5260 5260C 2605 3705	2610S1 2610S2
2402	Heavy Black Liquor Tank	2006	None	2400
2500	No. 2 Multi-Effect Evaporator Set (with concentrator)	1966	5260 2605 3705	2610S1 2610S2
5100	No. 3 Multi-Effect Evaporator Set (with concentrator)	1982/2012	5260 2605 3705	2610S1 2610S2
2722	Lime Kiln Oxygen Enrichment System: oxygen lance (inside kiln), oxygen storage tank, oxygen mixers (2), and piping	2010	None	2723

Table 5.16-Control Device(s) For Unit ID 07 – Chemical Recovery			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
2505C	No. 2 Recovery Furnace ESP	1990	PM/PM_{10}/HAP Metals
5105C	No. 3 Recovery Furnace ESP	1983	PM/PM_{10}/HAP Metals
2723S2	No. 2 Lime Kiln ESP	1995	$PM/PM_{10}/PM_{2.5}$/HAP Metals
2511C	No. 2 and No. 3 Smelt Tanks Venturi Caustic Scrubber (weak wash and caustic)	1966	PM/PM_{10}/HAP Metals/TRS
2725C	Slaker Venturi Scrubber	1995	PM/PM_{10}
2726C	Purchased Lime Silo Baghouse	1995	PM/PM_{10}
2724C	Reburned Lime Silo Baghouse	1995	PM/PM_{10}

Table 5.16-Control Device(s) For Unit ID 07 – Chemical Recovery			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
2605	B & W No. 1 Combination Boiler	1959	VOC; TRS; HAP
3705	B & W No. 2 Combination Boiler	1968	VOC; TRS; HAP
5260C	LVHC System Caustic Scrubber	2000	VOC; TRS; HAP
5260	LVHC Collection System	2001	VOC; TRS; HAP

Conditions For Unit ID 07 – Chemical Recovery

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
07.1	2400 2402 2500 2515 2520 2700 2701 2702 2703 5100 5115 5120	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: See Table 07.1.T2 below. The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5 Standard No. 4 {Emissions from Process Industries}{SC Std. 4)}]* The affected sources are subject to all applicable requirements of SC Std. 4. Where construction or modification began on or before December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 40% for the affected sources. Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20% for the affected sources. As such, Opacity limitations for the affected sources are shown in the Table 07.1.T1 below: *[SC Reg. 61-62.5, Std. 4, Section IX(A) and (B)]*

Table 07.1.T1 ID 02 Opacity Limitations for Various Equipment

Equipment	Affected Source Description	Opacity Limit (%)
2402	Heavy Black Liquor Tank	≤ 40
2500	No. 2 Multi-Effect Evaporator Set	≤ 40
2515	No. 2 Recovery Furnace Precipitator Mix Tank	≤ 40
2520	Salt Cake Mix Tank	≤ 40
5115	No. 3 Recovery Furnace Precipitator Mix Tank	≤ 40
5120	Salt Cake Mix Tank	≤ 40
2700	Causticizing Equipment	≤ 20
2701	Slaker	≤ 20
2702	Purchased Lime Silo	≤ 20
2703	Reburned Lime Silo	≤ 20
2400	No. 1 Multi-Effect Evaporator Set	≤ 20
5100	No. 3 Evaporator Set	≤ 20

≤ = Less than or equal to

Testing: Not Required

Monitoring/Record Keeping/Reporting/Other:
(A) Affected Sources: [2400, 2402, 2500, 5100] Not Required. This equipment processes and/or stores various pulp liquor with a low probability of visible emissions.

(B): Visible Emissions Inspections (VE):Affected Sources: [2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703]-The owner or operator shall perform VE to show compliance with SC Std 4 Opacity limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D).

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Conditions For Unit ID 07 – Chemical Recovery

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			(C): Continuous Parameter Monitoring for Opacity: Affected Source: Slaker Scrubber [2725C] - The owner or operator shall continue to operate and maintain liquid flow indicators on Slaker Venturi Scrubber 2725C. To meet the requirements of SC Std. 4 opacity the owner or operator shall maintain the indicator(s) in the table 07.9.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. [§64.6(c)(1)(iii) and 64.3(b)] **Table 07.1.T2 Slaker Parameter Monitoring for Scrubber 2725C** **Method/Data Collection** | **Sampling Frequency/Averaging Time** **Monitoring:** [SC Std. 4] • Liquid flow indicator **Data Collection:** • Computer System and/or Manual Record Keeping | **Frequency:** Minimum of once per shift **Averaging:** No averaging Operational ranges for the monitored parameters have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from stack test data, vendor information, and engineering assessments, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. Upon detecting an excursion (Any parameter value outside of the established excursion range), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions).
07.2	2505 2510 2723 5110	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Recovery Furnace (2505), •No. 2 Smelt Dissolving Tank (2510), •No. 2 Lime Kiln (2723), •No. 3 Smelt Dissolving Tank (5110) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg.61-62.5, Standard No. 4 {Visible emissions from Kraft Pulp and Paper Manufacturing (SC Std. 4)]* The affected sources are subject to all applicable requirements of SC Std. 4 and shall meet opacity limits shown in the table below: *[SC Reg. 61-62.5, Std. 4, Section III]* **Table 07.2.T1 ID 07 Opacity Limitations for Various Equipment** **Equipment** | **Opacity Limit (%)** 2505 | ≤ 40 **Table 07.2.T1 ID 07 Opacity Limitations for Various Equipment** **Equipment** | **Opacity Limit (%)**

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**

2510	≤ 20
2723	≤ 20
5110	≤ 20

≤ = Less than or equal to

Testing: Not Required

Monitoring/Record Keeping/Reporting/Other:
(A): Continuous Opacity Monitoring: Affected Sources: No. 2 Recovery Furnace [2505] and No. 2 Lime Kiln]2723] -The opacity measurements from the continuous opacity monitoring system (COMS) used for showing continuing compliance with NESHAP 40 CFR 63, Subpart MM (MACT MM), will also be used as a direct indicator for showing compliance with SC Std. 4 Opacity requirements for the affected sources. All applicable MACT MM QA/QC, calibration, sampling frequency, averaging time, data reduction, record keeping, and operation and maintenance requirements for the COMS will apply for the use of the COMS for SC Std. 4 Opacity monitoring. *SC Reg. 61-62.70(6)(a)(3)(i)(A) {Streamlining; NESHAP 40 CFR 63.864(d)]*

All six-minute averages for opacity that are above the applicable SC Std. 4 Opacity limitation will be considered reportable exceedances. Semiannual reports including any variances from established parameters and appropriate corrective action taken shall be submitted to the Department. Monitoring of operations. The report shall include the following minimum information:

- All integrated six minute opacity measurements for periods during which the applicable provisions of SC Regulation 61-62.5, Standard 4 or NSPS Subpart BB have been exceeded, together with their nature, cause, and corrective action taken.
- For periods of monitoring system malfunction:

  i) The date and time identifying each period during which the monitoring system was inoperative, except for zero and span checks.

  ii) The nature of monitoring system repairs or adjustments.

  iii) Proof of opacity monitoring system performance if required by the Department after repairs or adjustments have been made.

- Records of recovery boiler or recovery boiler control device, lime kiln or lime kiln control device system repairs or adjustments made to correct violations of the provisions of SC Regulation 61-62.5, Std. 4.
- Excluding unit startup and shutdown, if any three hour block average opacity value exceeds the opacity limitation shall, as appropriate, initiate an inspection of the control equipment and/or the COMS system and make the necessary repairs.

If there are no excess emissions during the reporting period, such information shall be stated in the report.

(B): Continuous Parameter Monitoring for Opacity: Affected Sources: No. 2 and No. 3 Smelt Dissolving Tank Scrubber [2511C]-The owner or operator shall continue to operate and maintain the continuous parametric monitoring systems (CPMS) used for 40 CFR 63, Subparts A and S to monitor for compliance with SC Std. 4 opacity the affected

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Conditions For Unit ID 07 – Chemical Recovery

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			sources during source operation. All applicable MACT MM QA/QC, calibration, sampling frequency, averaging time, data reduction, record keeping, and operation and maintenance requirements for the COMS will apply for the use of the COMS for SC Std. 4 and NSPS BB Opacity monitoring. The scrubber operating parameters shall be measured as shown in Table 07.2.T2 below. The scrubber shall be in place and operational whenever processes controlled by the scrubbers are running, except during periods of scrubber malfunction or mechanical failure. This scrubber is used for both smelt dissolving tanks (2510 and 5110). *SC Reg. 61-62.70(6)(a)(3)(i)(A) {Streamlining}]* **Table 07.2.T2 Smelt Tanks Parameter Monitoring for Scrubber 2511C** **Opacity Monitoring Method/Requirements** | **Sampling Frequency/Averaging Time** **Monitoring:** • Scrubber pressure drop CPMS • Scrubber liquid flow CPMS | **Frequency**: Minimum of once every 15 minutes **Monitor requirements**: 40 CFR 63.8; §63.864(e)(10) | **Averaging**: 3-hour averages Operational ranges for the monitored parameters have been established to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from stack test data and or vendor certification, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. All three-hour averages that are above the established ranges will be considered as reportable monitoring parameter excursion. Each incidence of operation outside the operational ranges, including date and time, cause, monitoring data, and corrective action taken, shall be recorded and kept on site. Reports of variances from established parameters and appropriate corrective action taken during the reporting period shall be submitted to the Department semiannually. If there are no monitoring parameter excursions during the reporting period, such information shall be stated in the report.
07.3	5105	•Opacity •*SC Std. 4* •*NSPS BB*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: No. 3 Recovery Furnace (5105) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[South Carolina Regulation 61-62.5, Standard No. 4 {Visible emissions from Kraft Pulp and Paper Manufacturing (SC Std. 4)];* • *[NSPS 40 CFR 60, Subparts A;BB-Standards of Performance for Kraft Pulp Mills}; and SC Reg. 61-62.60 Subparts A and BB (NSPS BB)]* The owner or operator shall meet the SC Std. 4 and NSPS BB opacity limits shown in table 07.3T1 below: *[SC Reg. 61-62.5, Std. 4, Section III; 40 CFR 60.282(a)(1)(ii)]* **Table 07.3.T1 Opacity Limitations for ID 07: 5105** **Opacity Limit (%)** | **Regulation** ≤ 40 | SC Std. 4 ≤ 35 | NSPS BB ≤ = Less than or equal to See MACT Conditions in Part 7.A of this permit for MACT MM requirements.

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Testing: Not Required **Monitoring/Record Keeping/Reporting/Other: Continuous Opacity Monitoring -**The opacity measurements from the continuous opacity monitoring system (COMS) used for compliance with NESHAP 40 CFR 63, Subpart MM (MACT MM) and NSPS 40 CFR 60, Subpart BB, will be used as a direct indicator for showing compliance with SC Std. 4 and NSPS BB Opacity requirements for the affected source. All applicable MACT MM QA/QC, calibration, sampling frequency, averaging time, data reduction, record keeping, and operation and maintenance requirements for the COMS will apply for the use of the COMS for SC Std. 4 and NSPS BB Opacity monitoring. *[SC Reg. 61-62.70(6)(a)(3)(i)(A) {Streamlining}; NESHAP 40 CFR 63.864(d); §63.8]* All applicable record keeping, notification, and reporting requirements for NSPS 40 CFR 60, Subpart BB shall be followed for the No. 3 Recovery Furnace Opacity. All six-minute (6-min.) averages for opacity that are above the SC Std. 4 and/or the NSPS Opacity limitation must be reported as excess emissions. Periods of excess emissions will not be considered to be indicative of a violation of the NSPS BB opacity limit if the percent of the total number of possible contiguous periods of excess emissions in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the facility is not operating) during which excess emissions occur does not exceed six percent (6 %) for average opacities from No. 3 Recovery Furnace. *[§60.282(d)(i)(ii); 60.284(e); §60.284(e)(1); §63.284(e)(2)]* The owner or operator shall submit a semiannual excess emissions and monitoring systems performance report and/or summary report for the affected source with report content in accordance with 40 CFR 60.7(c) and (d). If the total duration of excess emissions for the reporting period is less than one percent (1 %) of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report form shall be submitted. If the total duration of excess emissions for the reporting period is 1 % or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 % or greater of the total operating time for the reporting period, the summary report and the excess emission report shall both be submitted to the Department. If there are no excess emissions during the reporting period, such information shall be stated in the report. For the purposes of SC Std. 4, the following additional requirements must be met: *[40 CFR 60.7(c); §60.7(d)]* • The summary report must include all integrated six minute opacity measurements for periods during which the applicable provisions of SC Regulation 61-62.5, Standard 4 or NSPS Subpart BB have been exceeded, together with their nature, cause, and corrective action taken. • The summary report must include the date and time identifying each period during which the monitoring system was inoperative, except for zero and span checks. • The summary report must include the nature of monitoring system repairs or adjustments. • Proof of opacity monitoring system performance must be submitted if required by the Department after repairs or adjustments have been made. • Records of recovery furnace or recovery furnace control device system repairs or adjustments made to correct violations of the provisions of SC Regulation 61-62.5, Std. 4 must be kept. • Excluding unit startup and shutdown, if any three hour block average opacity value

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Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			exceeds the applicable opacity limitation, the permittee shall, as appropriate, initiate an inspection of the control equipment and/or the COMS and make the necessary repairs or operational changes to bring the opacity within the applicable limit. The owner or operator shall keep on site records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative as well as all applicable records required by 40 CFR 60.7(b).
07.4	2505	•PM •*SC Std. 4* •*MACTMM* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Recovery Furnace (2505) **Limits/Standards:** The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)];* • *[NESHAP 40 CFR 63, Subparts A {General Provisions); MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg, 61-62.63, Subparts A and MM (MACT MM)]* • *[40 CFR 64{Compliance Assurance Monitoring} (CAM)]* The owner or operator shall meet all of the SC Std. 4 and MACT MM particulate matter (PM) limitations as shown in Table 07.3.T1 below: *[SC Reg. 61-62.5, Std. 4, Section III; NESHAP 40 CFR 63.862(a)(1)(i)(A)]* **Table 07.4.T1 PM Limitations for ID 07: 2505** **PM Limit** | **PM Units** | **Applicable Regulation** ≤ 2.75 | lb/T EADTUBP | SC Std. 4 ≤ 0.044 | gr/dscr@8% O_2 | MACT MM lb/T EADTUBP = pounds per equivalent air dried ton of unbleached pulp gr/dscf@8% O_2 = grains per dry standard cubic foot corrected to 8 percent oxygen (Note: See MACT Conditions in Part 7.0 for MACT MM requirements). **Testing:** Compliance with the PM emission limits shall be demonstrated through source testing once every two years in accordance with South Carolina Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(A)]* **Monitoring/Record Keeping/Reporting/Other:** **(A): MACT MM Monitoring-** (Note: See MACT Conditions in Part 7.0 for MACT MM requirements). **(B1): Compliance Assurance Monitoring (CAM) for PM-**This source is subject to 40 CFR 64, CAM (large unit) and shall comply with all applicable provisions. The facility shall utilize a continuous opacity monitoring system (COMS) used for PM monitoring

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			requirements of MACT MM, which is considered by the Department as presumptively acceptable monitoring pursuant to §64.2(b)(1)(i) or (vi) for showing reasonable assurance of continuing compliance with the limitations of SC Std. 4. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 06.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. [§64.6(c)(1)(iii) and 64.3(b)] **Table 07.4.T2 No. 2 Recovery Furnace CAM Parameter Monitoring for ESP 2505C** **PM Monitoring Method/Requirements** | **Sampling Frequency/Averaging Time** **CAM Indicator:** (SC Std. 4) COMS (Opacity-MACT MM) **Data collection:** Computer system and/or manual record keeping | **Frequency:** Minimum of one cycle of sampling and analyzing every successive 10-second period **Monitor requirements:** 40 CFR 63.8; §63.864(d) | **Averaging:** One Cycle of data averaged each successive 6-minute period Operational ranges for the CAM indicator have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from MACT MM opacity limitations, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure (including source test data), following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. Upon detecting an CAM excursion (When any ten (10) consecutive 6-minute averages are greater than 20% opacity), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). The owner or operator shall follow all applicable quality control/quality assurance, calibration, operation and maintenance, record keeping, and reporting requirements of 40 CFR 63, Subparts A and MM. For CAM, reporting shall included indications of SC Std. 4 excursions. *[NESHAP 40 CFR 63.864(d), §63.866; §63.867; §63.8; §63.10](c)]* **(B2): Additional Large CAM Unit Monitoring Requirements-**If the COMS data (excluding startup and shutdown as well as bad COMS data) averaged over a six (6) minute periods shows excursions over 35 % opacity for six (6) percent or more of the operating time within any quarterly period, the permittee shall perform a stack test in the following calendar quarter to demonstrate compliance with the SC Std. 4 PM standard. The permittee shall submit and have Department approval for a compliance test protocol representative of operational conditions during the period in question as required by SC Regulation 62.1, Section IV - "Source Tests" before conducting any tests.

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
07.5	2510	•PM •*SC Std. 4* •*MACT MM* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: No. 2 Smelt Dissolving Tank (2510) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries }(SC Std. 4)];* • *[NESHAP 40 CFR 63, Subparts A {General Provisions);MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The owner or operator shall meet the SC Std. 4 and MACT MM particulate matter (PM) limitations as shown in the table below: *[SC Reg. 61-62.5, Std. 4, Section III; NESHAP 40 CFR §63.862(a)(1)(i)(B)]* **Table 07.5.T1 PM Limits for ID 07: 2510** **PM Limit** | **PM Units** | **Applicable Regulation** ≤ 1.0 | lb/EADTUBP | SC 4 ≤ 0.2 | lb/TBLS fired | MACT MM lb/T EADTUBP = pounds per equivalent air dried ton of unbleached pulp lb/T BLSF = pounds per ton of black liquor solids fired (Note: See MACT Conditions in Part 7.0 for MACT MM requirements.) **Testing:** Compliance with the PM emission limits shall be demonstrated through source testing once every four (4) years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(A)]* **Monitoring/Record Keeping/Reporting/Other:** **(A): MACT MM-** (Note: See MACT Conditions in Part 7.0 for MACT MM requirements). . **(B1): Parameter Compliance Assurance Monitoring (CAM) for PM-**The affected source is subject to 40 CFR 64, CAM (large unit) and shall comply with all applicable provisions for 2510. The facility will utilize the continuous parametric monitoring system (CPMS) for scrubber operating parameters used for monitoring requirements of MACT MM, which is considered by the Department as presumptively acceptable monitoring pursuant to §64.2(b)(1)(i) or (vi) for showing reasonable assurance of continuing compliance with the limitations of SC Std. 4. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 07.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H,

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Table H-1. This scrubber is used for both smelt dissolving tanks (2510 and 5110). *[§64.6(c)(1)(iii) and 64.3(b)]* **Table 07.5.T2 Smelt Tank CAM Parameter Monitoring for Scrubber 2511C** **PM Monitoring Method/Data Collection** | **Sampling Frequency/Averaging Time** **CAM Indicators:** (SC Std. 4) • Scrubber pressure drop • Scrubber liquid flow | **Frequency:** Minimum of one cycle of sampling and analyzing every successive 15-minute period **Data collection**: Computer System and Manual Record Keeping | **Averaging:** 3-hour averages **Monitor requirements**: 40 CFR 63.8; §63.864(e)(10) | Operational ranges for the CAM indicator have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from MACT MM limitations, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure (including source testing), following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. Upon detecting an excursion (When any 3-hour average is outside established CAM scrubber excursion ranges), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). The owner or operator shall follow all applicable quality control/quality assurance, calibration, operation and maintenance, record keeping, and reporting requirements of MACT MM. For CAM, reporting shall included indications of SC Std. 4 excursions and. *[NESHAP 40 CFR 63.864(e); §63.864(e)(10); §63.864(d)(4); §63.8; §63.10(c)]* **(B2): Additional Large CAM Unit Monitoring Requirements-**If the CPMS data (excluding startup and shutdown as well as bad CPMS data) averaged over three hour block periods shows excursions over the CAM indicator excursion level six (6) or more three hour blocks within any six-month (6-month) reporting period, the permittee shall perform a stack test in the following calendar quarter to demonstrate compliance with the SC Std. 4 PM standard. The permittee shall submit and have Department approval for a compliance test protocol representative of operational conditions during the period in question as required by SC Regulation 62.1, Section IV - "Source Tests" before conducting any tests.
07.6	5105	•PM/PM_{10} •*SC Std. 4* •*SC Std. 7* •*NSPS BB* •*MACT MM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 3 Recovery Furnace (5105) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)];*

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
		•*CAM*	• *[SC Reg.61-62.5, Standard 7 {PSD} (SC Std. 7)];* • *[NSPS 40 CFR 60, Subparts A {General Provisions};BB {Standards Of Performance For Kraft Pulp Mills}; and SC Reg. 61-62.60, Subparts A and BB (NSPS BB)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions},MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63,Subparts A and MM (MACT MM)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The owner or operator shall meet all of the SC Std. 4 , NSPS BB, MACT MM, and SC Std. 7 prevention of significant deterioration best available control technology (SC PSD BACT) particulate matter (PM) and/or particulate matter less than 10microns (PM_{10}) limitations as shown Table 07.5.T1below: *[SC Reg. 61-62.5, Std. 4, Section III; NSPS 40 CFR 60.282(a), §60.282(a)(1), §60.282(a)(1)(i); NESHSP 40 CFR 63.862(a)(1)(i), §63.862(a)(1)(i)(A)]*

Table 07.6.T1 PM Limitations for ID 07: 5105

Pollutant	Limit	Units	Regulation
PM	≤ 2.75	lb/T EADUBP	SC Std. 4
PM	≤ 0.044	gr/dscf@8% O_2	NSPS BB
PM	≤ 0.044	gr/dscf@8% O_2	MACT MM
PM/PM_{10}	≤ 0.025	gr/dscf@8% O_2	SC Std. 7 (PSD BACT)
PM/PM_{10}	≤ 237	tpy	SC Std. 7 (PSD BACT)

lb/ETADUBP = pounds per equivalent ton of air dried unbleached pulp
lb/T BLSF = pounds per ton of black liquor solids fired
gr/dscf@ 8% O_2 = grains per dry standard cubic foot corrected to 8 percent oxygen
tpy = tons per year
≤ = less than or equal to

(Note: See MACT Conditions in Part 7.0 for MACT MM requirements.)

Testing: Compliance with the PM emission limits shall be demonstrated through source testing once every two years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(A)]*

Monitoring/Record Keeping/Reporting/Other:
(A): (Note: See MACT Conditions in Part 7.0 for MACT MM requirements.)

(B1): Parameter Compliance Assurance Monitoring (CAM) for PM-The affected source is subject to 40 CFR 64, CAM (large unit) and shall comply with all applicable provisions. The facility shall utilize a continuous opacity monitoring system (COMS) and/or performance parameters of the ESP for PM monitoring requirements of NESHAP 40 CFR 63, Subparts A and MM, which is considered by the Department as presumptively acceptable monitoring pursuant to §64.2(b)(1)(i) or (vi) for showing reasonable assurance of continuing compliance with the limitations of South Carolina Standard 4, NSPS 40 CFR Subpart BB, South Carolina Standard 7 PSD BACT. Since the PSD BACT limit is more

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**

stringent than the MACT MM limit, the facility shall determine an excursion level for opacity that will assure reasonable assurance of compliance with the more stringent South Carolina PSD BACT limitations.

To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 06.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. *[§64.6(c)(1)(iii) and 64.3(b)]*

Table 07.6.T2 No. 3 Recovery Furnace CAM Parameter Monitoring for ESP 5105C	
PM Monitoring Method/Requirements	**Sampling Frequency/Averaging Time**
CAM Indicators: [SC Std 4; SC Std 7, NSPS BB] • COMS (Opacity) and/or ESP performance parameters **Data Collection:** Computer System and Manual Record Keeping	**Frequency**: Minimum of one cycle of sampling and analyzing every successive 10-second period
Monitor requirements: • 40 CFR 63.8; 63.864(d)	**Averaging**: One Cycle of data averaged each successive 6-minute period

Operational ranges for the CAM indicator have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1) for compliance with SC Std. 4, NSPS BB, and SC Std. 7 PSD BACT limitations. These operational ranges for the monitored parameters were derived from MACT MM limitations and test data (SC PSD BACT), which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure (including source test data), following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval.

Upon detecting an excursion (When any ten (10) consecutive 6-minute averages are greater than the Subpart MM excursion opacity and/or any 3-hour block average of the 6-minute averages are greater than the SC PSD BACT excursion opacity), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions).

The owner or operator shall follow all applicable quality control/quality assurance, calibration, operation and maintenance, record keeping, and reporting requirements of 40 CFR 63, Subparts A and MM. In addition to required information for MACT MM, record keeping and CAM reporting information will include indication of SC Std. 4 and NSPS BB excursions as well as information for the SC Std. 7 PSD BACT limits (number, duration and cause (including unknown cause, if applicable) of excursions/exceednaces , as applicable, and the corrective actions taken, etc.). *[NESHAP 40 CFR 63.864(d); §63.864(d)(3); §63.864(d)(4); §63.8; §63.10(c)]*

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			(B2): Additional Large CAM Unit Monitoring Requirements-If the COMS data and/or ESP performance parameter (excluding startup and shutdown as well as bad COMS/ESP data) averaged over a six (6) minute periods shows excursions over 35 % opacity and/or ESP performance parameter for six (6) percent or more of the operating time within any quarterly period, the permittee shall perform a stack test in the following calendar quarter to demonstrate compliance with the SC Std. 4, SC Std. 7 and NSPS PM standards. The permittee shall submit and have Department approval for a compliance test protocol representative of operational conditions during the period in question as required by SC Regulation 62.1, Section IV - "Source Tests" before conducting any tests. **(C): PSD BACT Annual Emissions Monitoring-**The owner or operator shall show continuing compliance with applicable PSD BACT annual PM/PM_{10} limitations for the affected source (5105) using Facility Wide Condition FW.3 (Part 5, Section D).
07.7	5110	•PM/PM_{10} •*SC Std. 4* •*SC Std. 7* •*NSPS BB* •*MACT MM* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 3 Smelt Dissolving Tank (5110) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)]* • *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)]* • *[NSPS 40 CFR 60, Subparts A {General Provisions};BB {Standards Of Performance For Kraft Pulp Mills}; and SC Reg. 61-62.60, Subparts A and BB (NSPS BB)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions) and MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.5, Subparts A and MM (MACT MM)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The owner or operators shall meet the SC Std. 4 , NSPS BB, MACT MM, and SC Std. 7 prevention of significant deterioration (PSD) best available control technology (BACT) particulate matter and/or particulate matter less than 10 microns (PM/PM_{10}) limitations as shown Table 07.6.T1 below: *[SC Reg. 61-62.5, Std. 4, Section III; NSPS 40 CFR 60.282(a); §60.282(a)(2); NESHAP 40 CFR 63.862(a); §63.862(a)(1)(i); §63.862(a)(1)(i)(B)]* **Table 07.7.T1 PM Limitations for ID 07: 5110** **Pollutant** | **PM Limit** | **PM Units** | **Applicable Regulation** PM | ≤ 1.0 | lb/T EADUBP | SC Std. 4 PM | ≤ 0.2 | lb/TBLS (dry weight) | NSPS BB PM | ≤ 0.20 | lb/TBLS (dry weight) | MACT MM PM/PM_{10} | ≤ 0.20 | lb/TBLS (dry weight) | SC Std. 7 (PSD BACT) lb/T ETADUBP = pounds per equivalent ton of air dried unbleached pulp lb/TBLS (dry weight) = pounds per ton of black liquor solids dry weight tpy = tons per year ≤ = less than or equal to (Note: See MACT Conditions in Part 7.0 for MACT MM requirements.)

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Testing: Compliance with the PM emission limits shall be demonstrated through source testing once every four years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(A)]* **Monitoring/Record Keeping/Reporting/Other:** **(A): MACT MM-** (Note: See MACT Conditions in Part 7.0 for MACT MM requirements.). **(B): Parameter Compliance Assurance Monitoring (CAM) for PM-**The affected source is subject to 40 CFR 64, CAM and shall comply with all applicable provisions. The facility will utilize the continuous parametric monitoring system (CPMS) for scrubber operating parameters used for monitoring requirements of MACT MM, which is considered by the Department as presumptively acceptable monitoring pursuant to §64.2(b)(1)(i) or (vi) for showing reasonable assurance of continuing compliance with the limitations of SC Std. 4, SC Std. 7, and NSPS BB. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 06.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. This scrubber is used for both smelt dissolving tanks (2510 and 5110). *[§64.6(c)(1)(iii) and 64.3(b)]*

Table 07.7.T2 Smelt Tank CAM Parameter Monitoring for Scrubber 2511C	
PM Monitoring Method/Data Collection	**Sampling Frequency/Averaging Time**
Monitoring: [SC Std. 4; SC Std. 7; and NSPS BB] • Scrubber pressure drop CPMS • Scrubber liquid flow CPMS	**Frequency**: Minimum of one cycle of sampling and analyzing every successive 15-minute period
Data collection: Computer System and Manual Record Keeping	**Averaging**: One cycle of data averaged each successive 1-hour period
Monitor requirements: 40CFR63.864(e)(10); §63.8	

Operational ranges for the CAM indicators have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from stack test data and/or MACT MM range limitations, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure (including source test data, vendor information, and engineering assessments), following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval.

Upon detecting an excursion (When any 3-hour average is outside established CAM scrubber

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			excursion ranges), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). . The owner or operator shall follow all applicable quality control/quality assurance, calibration, operation and maintenance, record keeping, and reporting requirements of 40 CFR 63, Subparts A and MM. For CAM, reporting shall included indications of SC Std. 4, SC Std. 7, and NSPS BB excursions. *[40 CFR 63.864; §63.866; §63.867; §63.8; §63.10]*
07.8	2723	•PM •*SC Std. 4* •*SC Synthetic Minor* •*SC Std. 7* •*NSPS BB* •*MACT MM* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Lime Kiln (2723) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)* • *[SC Reg. 61-62.1,Sec II,H {Synthetic Minor} (SC SM)]* • *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)]* • *[NSPS 40 CFR 60, Subparts A {General Provisions}; BB {Standards Of Performance For Kraft Pulp Mills}; and SC Reg. 61-62.60, Subparts A and BB (NSPS BB)];* • *[NESHAP 40 CFR 63, Subparts A {General Provisions} and MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The owner or operator shall meet all of the SC Std. 4 , NSPS BB, MACT MM, SM. and SC Std, 7 prevention of significant deterioration (PSD) best available control technology (BACT) particulate matter (PM) limitations as in Table 07.8.T1 below: *[SC Reg. 61-62.2, Section II(E), SC Reg. 61-62.5, Std. 4, Section III; NSPS 40 CFR 60.282(a); §60.282(a)(3); NESHAP 40 CFR 63.862(a); §63.862(a)(1)(i); §63.862(a)(1)(i)(C)]]*

Table 07.8.T1 PM Limitations for ID 07: 2723

Pollutant(s)	Limit	Units	Applicable Regulation
PM	≤ 1.0	lb/T EADTUBP	SC Std. 4
PM	≤ 0.13	gr/dscf@10%O^2 (oil) [a]	NSPS BB
PM	≤ 0.067	gr/dscf@10%O^2 (gas) [b]	NSPS BB
PM	≤ 0.064	gr/dscf@10%O^2	MACT MM

Table 07.8.T1 PM Limitations for ID 07: 2723

Pollutant(s)	Limit	Units	Applicable Regulation
PM/PM_{10}	< 123	tpy	SC SM
PM/PM_{10}	≤ 0.030	gr/dscf@10%O^2	SC Std. 7 (PSD BACT)
PM/PM_{10}	≤ 123	tpy	SC Std. 7 (PSD BACT)

lb/T EADTUBP = pounds per equivalent ton of air dried unbleached pulp
gr/dscf@10%O_2 = grains per dry standard cubic foot at 10 percent Oxygen
tpy = tons per year
≤ = less than or equal to
Notes: a. Limit when burning liquid fossil fuel

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			b. Limit when burning gaseous fossil fuel The No. 2 Lime Kiln is presently subject to a SC PSD BACT limitations for PM (0.030 gr/dscf@10%O_2 and 123 tpy). (Note: See MACT Conditions in Part 7.0 for MACT MM requirements.) **Testing:** Compliance with the PM emission limits shall be demonstrated through source testing once every two years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(A)]* **Monitoring/Record Keeping/Reporting/Other:** **(A): MACT MM Monitoring**- (Note: See MACT Conditions in Part 7.0 for MACT MM requirements.) **(B): Parameter Compliance Assurance Monitoring (CAM) for PM-**The affected source is subject to 40 CFR 64, CAM and shall comply with all applicable provisions. The facility shall utilize presumptively acceptable monitoring pursuant to §64.2(b)(1)(i) or (vi) [COMS] per the monitoring requirements of NESHAP 40 CFR 63, Subparts A and MM to meet CAM requirements for SC Std. 4, NSPS BB, Synthetic Minor, and SC Std. 7 within 180 days of issuance of this TV operating permit. Since the PSD BACT limit is more stringent than the MACT MM limit, the facility shall determine an excursion level for opacity that will assure reasonable assurance of compliance with the more stringent South Carolina PSD BACT limitations. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 06.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. *[§64.6(c)(1)(iii) and 64.3(b)]* **Table 07.8.T2 Lime Kiln CAM Parameter Monitoring for ESP 2723S2** **PM Monitoring Method/Requirements** | **Sampling Frequency/Averaging Time** **Monitoring:** [SC Std. 4; SC Std. 7; NSPS BB] • COMS (Opacity) **Data Collection:** Computer System and Manual Record Keeping | **Frequency:** Minimum of one cycle of sampling and analyzing every successive 10-second period **Monitor requirements:** 40CFR63.864(d); §63.8 | **Averaging:** One Cycle of data averaged each successive 6-minute period Operational ranges for the CAM indicator have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from stack test data, and MACT MM limitations, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			monitored parameters. The operating ranges may be updated using this procedure (including source test data, vendor information, and engineering assessments), following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. To meet the requirements of 40 CFR 64 for SC Std. 7, the owner or operator shall use the presumptive COMS and/or ESP performance parameters as CAM (These levels will be incorporated into ATTACHMENT H. Table H-1). Upon detecting an excursion (When any ten (10) consecutive 6-minute averages are outside of the opacity and/or ESP performance parameter excursion ranges), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). The owner or operator shall follow all applicable quality control/quality assurance, calibration, operation and maintenance, record keeping, and reporting requirements of 40 CFR 63, Subparts A and MM. In addition to required information for MACT MM, CAM record keeping and reporting information will include indication of SC Std. 4 and NSPS BB excursions/exceedances as well as information for the PSD BACT limits. (Number, duration and cause (including unknown cause, if applicable) of excursions, as applicable, and the corrective actions taken, etc.). *[NESHAP 40 CFR 63.864(d); §63.864(d)(3); §63.864(d)(4); §63.8; §63.10(c)]* **(C1): Production Monitoring** - The owner or operator shall show continuing compliance with applicable Synthetic Minor PM/PM_{10} limitations for the affected source (2723) using Facility Wide Condition FW.2 (Part 5, Section D). **(C2): Deleted.**
07.9	2700 2701 2702 2703	•PM •*SC Std. 4* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Recausticizing equipment (2700), •Slaker (2701), Purchased Lime Silo (2702), •Reburned Lime Silo (2703) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions From Process Industries} (SC Std. 4)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* Particulate matter (PM) emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, the allowable PM emissions limit for the affected sources is limited to the amount shown in Table 07.9.T1 at its nominal production rating: **Table 07.9.T1 PM Limitations for ID 07: 2700, 2701, 2702, and 2703**

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Conditions For Unit ID 07 – Chemical Recovery

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions

Equipment	PM Limit (lbs/hr)	Process Weight Rate (tph)
2701 and 2700 (total)	≤ 35.43	25.0
2702	≤ 35.43	25.0
2703	≤ 25.16	15.0

lb/hr = pounds per hour
tph = tons per hour
≤ = less than or equal to

Testing: Not Required

Monitoring/Record Keeping/Reporting/Other:
(A): Parameter Compliance Assurance Monitoring (CAM) for PM: Affected Source: Slaker Scrubber [2725C] -The affected source is subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) (other source) and shall comply with all applicable provisions. The owner or operator shall continue to operate and maintain liquid flow indicators on Slaker Venturi Scrubber 2725C to show reasonable assurance of continuing compliance with SC Std. 4. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 07.9.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. [§64.6(c)(1)(iii) and 64.3(b)]

Table 07.9.T2 Slaker CAM Parameter Monitoring for Scrubber 2725C

PM Monitoring Method/Data Collection	Sampling Frequency/Averaging Time
CAM Indicators: [SC Std. 4] • Liquid flow indicator **Data Collection:** Computer System and Manual Record Keeping	**Frequency:** Minimum of once per shift
Monitor requirements: • Installed to provide representative data • Develop operation maintenance, and QA/QC control and assurance practices to ensure continuing validity of data.	**Averaging:** No averaging

Operational ranges for the CAM indicator PM have been established for excursions to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from stack test data, vendor information, and engineering assessments, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval.

Upon detecting an excursion (Any parameter value outside of the established excursion range), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions).

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			(B): Parameter Compliance Assurance Monitoring (CAM) for PM: Affected Sources: Fresh and Reburned Lime Silo Baghouse [2726C; 2724C]-The affected sources (Fresh and Reburned Lime Silos)are subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) and shall comply with all applicable provisions. To meet the requirements of 40 CFR 64 for the bag houses for the Starch Silos, the indicator for PM will be visual inspections (VE), which will be used to provide reasonable assurance of continuing compliance with SC Std. 4 requirements. VE means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), and cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 07.9.T3 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. *[§64.6(c)(1)(iii) and 64.3(b)]* **Table 07.9.T3 Lime Silos CAM Monitoring for Bag Houses 2726C and 2724C** **PM Monitoring Method/Data Collection** | **Sampling Frequency/Averaging Time** **CAM Indicator:** (SC Std. 4): • Visual Inspections (VE) **Data Collection:** [Manual Record Keeping] | **Frequency:** At least once per day while unloading lime **Averaging:** No averaging Operational ranges for the CAM indicator have been established to indicate proper operation of the control devices (See ATTACHMENT H, Table H-1). These operational ranges for the monitored parameters were derived from vendor information and visual observations, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Manager of Engineering Services, Bureau of Air Quality for approval. Upon detecting an excursion (Any visual emission), the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). **(C): CAM Record Keeping and Reporting Affected Sources: Scrubber [2725C] and Bag Houses [2724C; 2726C)]**-A semiannual report for monitoring shall include, at a minimum, the information required under § 70.6(a)(3)(iii) and the following information as applicable:

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Conditions For Unit ID 07 – Chemical Recovery

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			• Summary information of the number, duration and cause (including unknown cause, if applicable) of excursions, as applicable, and the corrective actions taken; • Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero span or other daily calibration checks, if applicable); • If applicable, a description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions occurring. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective action, and quality improvement plans.
07.10	5105 2723	•SO_2 •*SC Synthetic Minor* •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 3 Recovery Furnace (5105), •No. 2 Lime Kiln (2723) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor} (SC SM)];* • *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)]* The affected sources are subject to SC SM and/or SC Std. 7 prevention of significant deterioration (PSD) best available control technology (BACT) sulfur dioxide (SO_2) limitations as shown in the table below: **Table 07.10.T1 SO_2 Limitations for ID 07: 2723 and 5705** **Equipment** / **SO_2Limit** / **Limit Units** / **Applicable Regulation** 2723 / ≤ 82 / tpy / SC SM 5105 / ≤ 50.0 / ppmv (dry basis) / SC Std 7 (PSD BACT) 5105 / ≤ 551 / tpy / SC Std 7 (PSD BACT) ppmv@10%O_2 = parts per million volume basis at 10 percent Oxygen ppmv (dry basis) = parts per million volume basis and dry basis tpy = tons per year ≤ = less than or equal to The *No. 2 Lime Kiln* is presently subject to a SC SM (PSD avoidance) limit for SO_2 (less than 82 tons per year). **Testing:** Periodic source testing will also be used to show continuing compliance with the applicable SM and PSD BACT SO_2 emission limits for the affected sources (2723 and 5105). Source testing shall be conducted every four years (4) in accordance with SC Regulation 62.1, Section IV and Federal requirements, when applicable. EPA Method 6/6C will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. SO_2 compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. If an emission unit exceeds fifty (50) percent of its emission limit during a stack test, stack tests shall be scheduled and conducted annually. Upon demonstration that the source is

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			operating under 50 percent of its limit, as shown by two consecutive annual stack tests in which emissions are less than 50% of the standard, the source may resume stack testing every four (4) years. **Monitoring/Record Keeping/Reporting/Other:** **(A): Periodic Monitoring:** Source testing schedule used for periodic compliance monitoring. (See Testing above). **(B): Fuel Use: Affected Source: No. 2 Lime Kiln [2723]-**The affected source (2723) is permitted to burn only No. 6 fuel oil (maximum sulfur content 2.5%), natural gas, and propane as fuel. The owner or operator shall record on a monthly basis No. 6 fuel oil, natural gas, and propane usage. These records shall be summed for annual fuel usage (per fuel) and these records shall be maintained on site. **(C): Fuel Use: Affected Source: No. 3 Recovery Furnace [5105]-**The affected source (5105) is permitted to burn only No. 6 fuel oil maximum sulfur content 2.5%, natural gas and black liquor solids as fuel. The owner /operator shall record on a monthly basis, No. 6 fuel oil, black liquor solids, and gas usage. These records shall be summed for annual fuel usage (per fuel) and these records shall be maintained on site. **(D1): Production Monitoring: Affected Source: No. 2 Lime Kiln [2723]-** The owner or operator shall show continuing compliance with applicable Synthetic Minor SO_2 limitations using Facility Wide Condition FW.2 (Part 5, Section D). **(D2): Deleted.** **(D3): Annual PSD Emission Monitoring: Affected Source: No. 3 Recovery Furnace [5105]-**The owner or operator shall show continuing compliance with applicable annual PSD BACT SO_2 limitations for the affected source (5105) using Facility Wide Condition FW.3 (Part 5, Section D).
07.11	2723 5105	•CO •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 3 Recovery Furnace (5105), •No. 2 Lime Kiln (2723) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor Construction Permits (SC SM);* • *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)]* The owner or operator shall meet all of the SC SM and SC Std. 7 prevention of significant deterioration (PSD) best available control technology (BACT) carbon monoxide (CO) limitations as shown in the table below:

Table 07.11.T1 CO Limitations for ID 07: 2723 and 5105

Equipment	CO Limit	CO Units	Applicable Regulation
2723	≤ 26	lb/hr	SC SM
2723	≤ 114	tpy	SC SM
5105	≤ 1000	ppm	SC Std. 7 (PSD BACT)
5105	≤ 235	lb/hr	SC SM
5105	≤ 1029	tpy	SC SM

ppm = parts per million

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			lb/hr = pounds per hour tpy = tons per year ≤ = less than or equal to **Testing:** Periodic source testing will be used to show continuing compliance with the applicable SM and PSD BACT CO emission limits for the affected sources (2723 and 5105). Source testing shall be conducted every four years (4) in accordance with SC Regulation 62.1, Section IV and Federal requirements, when applicable. EPA Method 6/6C will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. CO compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. If an emission unit exceeds fifty (50) percent of its emission limit during a stack test, stack tests shall be scheduled and conducted annually. Upon demonstration that the source is operating under 50 percent of its limit, as shown by two consecutive annual stack tests in which emissions are less than 50% of the standard, the source may resume stack testing every four (4) years. **Monitoring/Record Keeping/Reporting/Other:** **(A): Periodic Monitoring:** Source testing schedule used for periodic compliance monitoring. (See Testing above). **(B): Fuel Use: Affected Source: No. 2 Lime Kiln [2723]-**The affected source is permitted to burn only No. 6 fuel oil (maximum sulfur content 2.5%), natural gas, and propane as fuel. The owner or operator shall record on a monthly basis No. 6 fuel oil, natural gas, and propane usage. These records shall be summed for annual fuel usage (per fuel) and these records shall be maintained on site. **(B): Fuel Use: Affected Source: No. 3 Recovery Furnace [5105]-**The affected source (5105) is permitted to burn only No. 6 fuel oil maximum sulfur content 2.5%, natural gas and black liquor solids as fuel. The owner /operator shall record on a monthly basis, No. 6 fuel oil, black liquor solids, and gas usage. These records shall be summed for annual fuel usage (per fuel) and these records shall be maintained on site. **(C1): Production Monitoring: Affected Source: No. 2 Lime Kiln [2723]**- The owner or operator shall show continuing compliance with applicable Synthetic Minor CO limitations using the monitoring requirements in Facility Wide Condition FW.2 (Part 5, Section D). **(C2): Deleted** **(C3): Annual PSD Emission Monitoring: Affected Source: No. 3 Recovery Furnace [5105]-**The owner/ operator shall show continuing compliance with the annual CO PSD BACT limitations for the affected source (5105) using the monitoring requirements in Facility Wide Condition FW.3 (Part 5, Section D).
07.12	2723 5105	•NO_X •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 3 Recovery Furnace (5105), •No. 2 Lime Kiln (2723)

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
		•*SC Std. 7.1*	The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)];* • *[SC Reg. 61-62.5, Standard No. 7.1 {NSR} (SC Std. 7.1)]* **(A) Nitrogen Oxides Limitations:** The owner or operator must meet all of the SC Std. 7 prevention of significant deterioration (PSD) best available control technology (BACT), and SC Std. 7.1 Non-attainment Source Review (NSR) lowest achievable emissions rate (LAER) Nitrogen Oxides (NO_X) limitations as shown in the table below:

Table 07.12.T1 NO_X Limitations for ID 07: 2723 and 5105

Equip.	NOx Limit	Units	Applicable Regulation	Effective
2723	≤ 152	ppmv@10%O_2	SC Std. 7 (PSD BACT)	Present
5105	≤ 78	ppmv @8%O_2 (10-day rolling average)	SC Std. 7 (PSD BACT)	Present
5105	≤ 78	ppmv @8 O_2 (10-day rolling average)	SC Std. 7.1 (NSR LAER)	Present
5105	≤ 618	tpy	SC Std. 7 (PSD BACT)	Present
5105	≤ 618	tpy	SC Std. 7.1 (NSR LAER)	Present

ppmv@10%O_2 = parts per million volume basis at 10 percent Oxygen
ppmv@8%O_2 = parts per million volume basis at 10 percent Oxygen
tpy = tons per year
≤ = less than or equal to

The affected sources (2723 and 5105) are subject to all the limits above (when applicable) as well as all applicable requirements of SC Std. 7, and SC Std. 7.1, regulations.

The No. 2 Lime Kiln (2723) is subject to SC PSD BACT limitations for NO_X.

(B): Additional LAER Requirement: In addition to the limitations in the table above, PSD BACT and NSR LAER require the use of four levels of air in the No. 3 Recovery Furnace (5105) for combustion control for NO_X reduction. These NO_X control methods are considered BACT and LAER for these units.

Testing: Periodic source testing will be used to show continuing compliance with the applicable NO_X emission limits for the affected sources (2723 and 5105). Source testing shall be conducted every two (2) years in accordance with SC Regulation 62.1, Section IV and Federal requirements, when applicable. EPA Method 7-7E will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. NO_X compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol.

For periodic monitoring purposes, if the lime kiln exceeds 50 percent of its emission limit during a stack test, stack tests shall be scheduled and conducted annually. Upon demonstration that the source is operating under 50 percent of its limit, as shown by two consecutive annual stack tests in which emissions are less than 50% of the standard, the

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			source may resume stack testing every two years. **Monitoring/Record Keeping/Reporting/Other:** **(A) Periodic Monitoring:** Source testing schedule used for periodic compliance monitoring. (See Testing above). **(B): Continuous Emissions Monitoring: Affected Source: No. 3 Recovery Furnace [5105]-**Good combustion control (for NO_X) for the applicable PSD BACT and NSR LAER NO_X limits for the affected sources will be demonstrated by use (install, calibrate, maintain and operate) of a NO_X continuous emissions monitoring system (CEMS) on the affected emission unit (5105). The CEMS shall be installed, certified, calibrated, and operational no later than two hundred and seventy (270) days after startup from the modifications to the affected emission unit. The CEMS shall be certified annually and certification reports with supporting data sent to the Manager of the Source Evaluation Section within thirty (30) days of the certification. CEMS operation, calibration, maintenance, quality assurance, and data handling procedures shall be established and implemented by the facility on guidance from 40 CFR 60, Appendix B-Performance Specification-2 as well as manufactures recommendations. The procedures shall include record keeping for these CEMS support activities. The procedures and generated records shall be kept on site. The CEMS shall provide NO_X values at least once every fifteen minutes and have the capability of calculating NO_X concentration as part per million volume corrected to eight (8) percent oxygen for the *No. 3 Recovery Furnace* (5105). The NO_X information shall be recorded and available for contemporaneous use for good combustion practices. Twenty-four (24) hour averages of the NO_X data shall be determined each day and the daily averages used to calculate ten-day (10) rolling averages for NO_X concentration for the *No. 3 Recovery Furnace*. Any 10-day rolling average for the *No. 3 Recovery Furnace* above the applicable limits shall be recorded along with corrective actions taken correct the exceedance. All data NO_X data generated by the CEMS shall be kept on site. Semiannual reports including any exceedances of standards and appropriate corrective action taken shall be submitted to the Department. **(C1): Production Monitoring: Affected Source: No. 2 Lime Kiln [2723]-** The owner or operator shall show continuing compliance with the applicable Synthetic Minor annual NO_X limitations using the monitoring required in Facility Wide Condition FW.2 (Part 5, Section D). **(C2): Deleted.** **(C3): Annual Emission Monitoring: Affected Source: No. 3 Recovery Furnace [5105]-**The owner or operator shall show continuing compliance with the applicable NSR LAER and PSD BACT annual NO_X limitations for the affected source (5105) using Facility Wide Condition FW.3 (Part 5, Section D).
07.13	2400 2500 5100 5260 2605 3705	•TRS •*SC Std. 4* •*NSPS BB*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Multi-Effect Evaporator Set (2400), •No. 2 Multi-Effect Evaporator Set (2500), •No. 3 Multi-Effect Evaporator Set (5100), •Low Volume High Concentration (LVHC) Collection System (5260) The affected source(s) are subject to all applicable limits and requirements of the

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<table>
<tr><th colspan="4">Conditions For Unit ID 07 – Chemical Recovery</th></tr>
<tr><th>Condition No.</th><th>Equip ID</th><th>Regulated Pollutant/ Standard</th><th>Conditions</th></tr>
<tr><td></td><td></td><td></td><td>following regulation(s) (reg.):
• [SC Reg. 61-62.5, Standard No. 4 {Emissions From Process Industries} (SC Std. 4)];
• [NSPS 40 CFR 60, Subparts A {General Provisions}; BB {Standards Of Performance For Kraft Pulp Mills}; and SC Reg. 61-62.60, Subparts A and BB (NSPS BB)]

No. 1 and No. 3 Multi-Effect Evaporator Sets (2400 and 5100) are subject to all applicable limitations as well as notification, testing, monitoring, record keeping, and reporting requirements of NSPS BB. No. 2 Multi-Effect Evaporator Set (2500) is subject to all applicable TRS reduction requirements of SC Std. 4.

A caustic scrubber in the LVHC Collection System (5260) prior to the combination boilers (5260C- LVHC System Caustic Scrubber) is used as part of the control to reduce TRS and sulfur dioxide (SO_2) in streams from the evaporators and concentrators (also digesters).

The TRS content of the gases from the affected sources for the multi-effect evaporator systems shall be less than or equal to 5 parts per million by volume on a dry basis corrected to 10 percent oxygen or each of these sources must be combusted in the No. 1 Combination Boiler (2605) and/or No. 2 Combination Boiler (3705) for TRS reduction. The TRS gases are subject to a minimum temperature of 1200° F for at least 0.5 second. The specific sources in affected systems that require collection and control are listed in Table E-1 of ATTACHMENT E, which is considered a Federally enforceable part of this condition and permit. [SC Reg. 61-62.5, Std. 4, Section XI; NSPS 40 CFR 60.280; §60.281; §60.283(a); §60.238(a)(1), §60.283(a)(1)(iii)]

Testing: Not Required

Monitoring/Record Keeping/Reporting/Other: -
(A) LVHC Scrubber [5260C] Monitoring- See Condition 02.2 for requirements.

(B): TRS Compliance Assurance Monitoring (CAM)-These sources (2400, 2500, 5100, and 5260) are subject to 40 CFR 64, CAM and shall comply with all applicable provisions. The flame failure system and bypass vent times and other TRS collection system losses will be used as CAM indicators. See TRS condition for the combination boilers (ID 08 Equipment No. 2605 and 3705) for specific CAM monitoring, record keeping, and reporting: Condition 08.6.</td></tr>
<tr><td>07.14</td><td>2505</td><td>•TRS

•SC Std. 4</td><td>Limits/Standards [State Only: No]: The following are affected source(s) for this condition: •No. 2 Recovery Furnace (2505)

The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.):
• [SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries} (SC Std. 4)]

The owner or operator shall meet the SC Std. 4 total reduced sulfur (TRS) limitations as shown in the table below: [SC Reg. 61-62.5, Std. 4, Section XI]

<table>
<tr><th colspan="2">Table 07.14.T1 TRS Limitations for ID 07: 2505</th></tr>
<tr><th>TRS Limit</th><th>TRS Units</th></tr>
<tr><td>≤ 20</td><td>ppmv@8 %O_2(dry weight)</td></tr>
</table>
ppmv@8%O_2 (dry weight) = parts per million volume basis at 8 percent Oxygen (dry weight)

Testing: Compliance with the TRS emission limits for the affected source (2505) shall be</td></tr>
</table>

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			demonstrated through source testing. No. 2 Recovery Furnace shall be tested once every two years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 16 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. TRS compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. [SC Reg. 61-62.5, Std. 4, Section XII(B)] **Monitoring/Record Keeping/Reporting/Other: TRS Continuous Monitoring -**The owner or operator shall install, calibrate, maintain and operate continuous emissions monitoring system (CEMS) to monitor and record the concentration of TRS emissions on a dry basis and the percent oxygen by volume on a dry basis in the gases discharged into the atmosphere for the affected source. The CEMS must be calibrated, maintained, and operated in accordance with the applicable requirements of 40 CFR 60.284 (f), 40 CFR 60.13, and Performance Specification 1, 3, and 5 of Appendix B of 40 CFR, Part 60. The owner or operator shall calculate and record on a daily 12-hour average TRS concentrations and O_2 concentrations for the two consecutive periods of each operating day. Excess emissions for each emission unit are as follows: [SC Reg. 61-62.5, Std. 4, Section XI(C)] • *No. 2 Recovery Furnace* excess emissions are defined as all 12-hour averages of TRS concentrations above 20 parts per million volume corrected to 8 percent oxygen (ppmv @ 8% O_2) [calculated in accordance with SC Reg. 62.5, Std. 4, Section XI, D.2.a-c] The Department will not consider periods of excess emissions to be indicative of a violation of South Carolina Regulation 61-62.5, Standard No. 4, Section IX if: • The number of 12 hour exceedances from recovery furnaces is less than or equal to 1% of the total number of contiguous 12 hour periods in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the recovery furnace is not operating). • The Department determines that the affected equipment, including air pollution control equipment, is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions. *[SC Reg. 61-62.5, Std. 4, Section XI(D)]* Semiannual reports shall be submitted to the Department for *No. 2 Recovery Furnace*. Reports shall include all excess emissions above the applicable standard, monitor maintenance and monitor downtime. If there are no excess emissions during the reporting period, the report should state such information. *[SC Reg. 61-62.5, Std. 4, Section XI(D)]*
07.15	5105	•TRS •*NSPS BB* •*SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 3 Recovery Furnace (5105) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NSPS 40 CFR 60, Subparts A {General Provisions}; BB {Standards Of Performance For Kraft Pulp Mills}; and SC Reg. 91-62.60, Subparts A and BB (NSPS BB)];* • *[SC Reg. 61-62.5, Standard 7 {PSD}(SC Std. 7)]*

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			The owner or operator shall meet all of the SC Std. 4, SC SM, NSPS BB, and SC Std. 7 prevention of significant deterioration (PSD) best available control technology (BACT) for total reduced sulfur (TRS) limitations as shown in the table below: *[NSPS 40 CFR 60.283(a)(2); §60.283(a)(4); §60.283(a)(5)]*

Table 07.15.T1 TRS Limitations for ID 07: 5105

TRS Limit	TRS Units	Applicable Regulation
≤ 5	ppmv @ 8% O_2 (dry basis)	NSPS BB
≤ 5	ppmv @ 8% O_2 (dry basis)	SC Std. 7 (PSD BACT)

≤ = less than or equal to
ppmv@8%O_2(dry weight) = parts per million volume basis at 8 percent Oxygen (dry weight)

Testing: Not Required.

Monitoring/Record Keeping/Reporting/Other: TRS Continuous Monitoring-The owner or operator shall install, calibrate, maintain and operate continuous emissions monitoring system (CEMS) to monitor and record the concentration of TRS emissions on a dry basis and the percent oxygen by volume on a dry basis in the gases discharged into the atmosphere for the affected source. The CEMS must be calibrated, maintained, and operated in accordance with the applicable requirements of 40 CFR 60.284 (f), 40 CFR 60.13, and Performance Specification 1, 3, and 5 of Appendix B of 40 CFR, Part 60. The owner or operator shall calculate and record on a daily 12-hour average TRS concentrations and O_2 concentrations for the two consecutive periods of each operating day. Excess emissions for each emission unit are as follows: *[NSPS 40 CFR §60.284(a); §60.284(a)(1); §60.284(a)(2)]*

- No. *3 Recovery Furnace* excess emissions are defined as all 12-hour averages of TRS concentrations above 5 ppmv @ 8% O_2 [calculated in accordance with 40 CFR 60.284(c)(1)-(c)(4)].

The Department will not consider periods of excess emissions to be indicative of a violation of 40 CFR 60, Subpart BB if:

- The number of 12 hour exceedances from *No. 3 Recovery Furnace* is less than or equal to 1% of the total number of contiguous 12 hour periods in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the recovery furnace is not operating).
- The Department determines that the affected equipment, including air pollution control equipment, is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions. *[NSPS 40 CFR; §60.284(e)]*

The owner or operator shall submit a semiannual Excess emissions and monitoring systems performance report and/or a summary report for the affected source. If the total duration of excess emissions for the reporting period is less than one percent (1 %) of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report form shall be submitted. If the total duration of excess emissions for the reporting period is 1 % or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 % or greater of the total operating time

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			for the reporting period, the summary report and the excess emission report shall both be submitted. *[NSPS 40 CFR 60.7(c); 60.7(d)]* Reports shall include the information required by §60.7(c) and §60.7(d) and shall be submitted to the Department. If there are no excess emissions during the reporting period, the report should state such information. The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative as well as records required by NSPS 40 CFR 60.7(f). *[NSPS 40 CFR 60.7(b)]*
07.16	2510 5110	•TRS •*SC Std. 4* •*SC Std. 7* •*NSPS BB*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Smelt Dissolving Tank (2510), •No. 3 Smelt Dissolving Tank (5110) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 (SC Std. 4)]* (2510) • *[NSPS 40 CFR 60, Subparts A {General Provisions} and BB {Standards Of Performance For Kraft Pulp Mills} (NSPS BB) (5110);* • *[SC Reg. 61-62.5, Standard No. 7 (SC Std. 7)]*(5110) The owner(s) or operater(s) shall meet the SC Std. 4 total reduced sulfur (TRS) limitations as shown in Table 07.17.T1 below. *[SC Reg. 61-62.5, Std. 4, Section XI]* **Table 07.16.T1 TRS Limitations for ID 07: 2510 and 5110** **Equip. No** | **TRS Limit** | **Limit Units** | **Applicable Regulation** 2510 | ≤ 0.033 | lbs/T BLS(dry weight) | SC Std. 4 5110 | ≤ 0.033 | lbs/T BLS(dry weight) | NSPS BB (Pulp TRS) 5110 | ≤ 0.033 | lbs/T BLS(dry weight) | SC Std. 7 (PSD BACT) ≤ = greater than or equal to lbs/T BLS(dry weight) = pounds per ton of black liquid solids (dry weight) **Testing:** **A: No. 2 Smelt Dissolving Tank [2510]-**Compliance with the TRS emission limits for the affected source (2510) shall be demonstrated through source testing. The source shall be tested once every four years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 16 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. TRS compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(B)]* **(B): No. 3 Smelt Dissolving Tank [5110]**-Testing not required by NSPS regulation. **Monitoring/Record Keeping/Reporting/Other: Continuous Parameter Monitoring for TRS-**The continuous parametric monitoring system(s) CPMS calibrated, maintained and operated for NESHAP 40 CFR 63, Subpart MM (MACT MM) requirements for the smelt dissolving tanks will also be used to show compliance with applicable TRS of SC

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Std. 4 for 2510, and SC Std. 7 and/or NSPS BB for 5110.

One is scrubber is used for both smelt dissolving tanks (2510 and 5110). The scrubber operating parameters shall be recorded at the frequency in Table 02.2.T1 below during source operation. The scrubber shall be in place and operational whenever processes controlled by the scrubbers are running, except during periods of scrubber malfunction or mechanical failure. *[SC Reg. 61-62.70(6)(a)(3)(i)(A) {Streamlining}]*

Table 07.16.T2 Smelt Tank Parameter Monitoring for Scrubber 2510C	
TRS Monitoring Method/Requirements	**Sampling Frequency/Averaging Time**
Monitoring: (SC Std. 4; SC Std. 7; NSPS BB) • Scrubber pressure drop CPMS • Liquid flow CPMS	**Frequency:** Minimum of one cycle of sampling and analyzing every successive 15-minute period

Table 07.16.T2 Smelt Tank Parameter Monitoring for Scrubber 2510C	
TRS Monitoring Method/Requirements	**Sampling Frequency/Averaging Time**
Monitoring: (SC Std. 4; SC Std. 7; NSPS BB) • Scrubber pressure drop CPMS • Liquid flow CPMS	**Frequency:** Minimum of one cycle of sampling and analyzing every successive 15-minute period
Monitor requirements: 40 CFR 63.864(e)(10); §63.8	**Averaging:** 3-hour averages

Operating ranges for the scrubber parameters have been established to show reasonable assurance of compliance with the TRS limitations of SC Std.4, SC Std. 7, and NSPS BB based on test data or vendor data, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Engineering Services Division, Bureau of Air Quality for approval. Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site.

Reporting

(A): SC Std. 4 Reporting: Affected Source: No. 2 Smelt Dissolving Tank [2510]- Semiannual reports including any variances from established parameters (Any three (3)-hour average value outside the established ranges) and appropriate corrective action taken during the reporting period shall be submitted to the Department. If no incidences occurred during the reporting period then the report shall indicate such. *[SC Reg. 61-62.5, Std. 4, Section XI(D)]*

(B): NSPS BB Reporting: Affected Source: No. 3 Smelt Dissolving Tank [5110]-The owner or operator shall submit a semiannual Excess emissions and monitoring systems performance report and/or a summary report for the affected source. If the total duration of excess emissions for the reporting period is less than one percent (1 %) of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report form shall be submitted. If the total duration of excess emissions for the reporting period is 1 % or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 % or greater of the total operating time

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			for the reporting period, the summary report and the excess emission report shall both be submitted. *[NSPS 40 CFR 60.7(c); 60.7(d)]* Reports shall include the information required by §60.7(c) and §60.7(d) and shall be submitted to the Department. If there are no excess emissions during the reporting period, the report should state such information. The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative as well as records required by NSPS 40 CFR 60.7(f). *[NSPS 40 CFR 60.7(b)]*
07.17	2723	•TRS •*SC Synthetic Minor* •*NSPS BB*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Lime Kiln (2723) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor Construction Permits}(SC SM)]*; • *[NSPS 40 CFR 60, Subparts A {General Provisions}; {Standards Of Performance For Kraft Pulp Mills};and SC Reg. 91-62.90, Subparts A and BB (NSPS BB)]* The owner or operator shall meet all of the SC SM and NSPS BB total reduced sulfur (TRS) limitations as shown in the table below: *[NSPS 40 CFR 60.283(a)(5)]* **Table 07.17.T1 TRS Limitations for ID 07: 2723** TRS Limit: ≤ 8; Units: ppmv@10%O_2(dry basis); Applicable Regulation: NSPS BB TRS Limit: ≤ 9; Units: tpy; Applicable Regulation: SC SM ≤ = greater than or equal to ppmv@10%O_2(dry weight) = parts per million volume basis at 10 percent Oxygen (dry weight) tpy = tons per year **Testing:** Not Required. **Monitoring/Record Keeping/Reporting/Other:** **(A): TRS Continuous Monitoring -**The owner or operator shall install, calibrate, maintain and operate continuous emissions monitoring system (CEMS) to monitor and record the concentration of TRS emissions on a dry basis and the percent oxygen by volume on a dry basis in the gases discharged into the atmosphere for the affected source. The CEMS must be calibrated, maintained, and operated in accordance with the applicable requirements of 40 CFR 60.284 (f), 40 CFR 60.13, and Performance Specification 1, 3, and 5 of Appendix B of 40 CFR, Part 60. The owner or operator shall calculate and record on a daily 12-hour average TRS concentrations and O_2 concentrations for the two consecutive periods of each operating day. Excess emissions for each emission unit are as follows: [SC Reg. 61-62.5, Std. 4, Section XI(C); NSPS 40 CFR §60.284(a); §60.284(a)(1); §60.284(a)(2)] • *No. 2 Lime Kiln* (2723) excess emissions are defined as 12-hour averages of TRS concentrations above 8 ppmv @ 10% O_2 [calculated in accordance with 40 CFR 60.284(c)(1)-(c)(4)]. [SC Reg. 61-62.5, Std. 4, Section XI(D); NSPS 40 CFR 60.284(c); §60.284(d)]

Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			The Department will not consider periods of excess emissions to be indicative of a violation of South Carolina Regulation 61-62.5, Standard No. 4, Section IX (ID 2505) or 40 CFR 60, Subpart BB (ID 5105, 2732) if: • The number of 12 hour exceedances from *No. 2 Lime Kiln* are less than or equal to 1% of the total number of contiguous 12 hour periods in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the recovery furnace is not operating). • The Department determines that the affected equipment, including air pollution control equipment, is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions. *[NSPS 40 CFR; §60.284(e)]* The owner or operator shall submit a semiannual excess emissions and monitoring systems performance report and/or a summary report for the affected source. If the total duration of excess emissions for the reporting period is less than one percent (1 %) of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report form shall be submitted. If the total duration of excess emissions for the reporting period is 1 % or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 % or greater of the total operating time for the reporting period, the summary report and the excess emission report shall both be submitted. *[NSPS 40 CFR 60.7(c); 60.7(d)]* Reports shall include the information required by §60.7(c) and §60.7(d) and shall be submitted to the Department. If there are no excess emissions during the reporting period, the report should state such information. The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative as well as records required by NSPS 40 CFR 60.7(f). *[NSPS 40 CFR 60.7(b)]* **(B1): Production Monitoring** - The owner or operator shall show continuing compliance with the applicable Synthetic Minor TRS annual limitations using the monitoring required by Facility Wide FW.2 (Part 5, Section D). **(B2): Deleted.**
07.18	2723	•VOC •Beryllium •*SC Synthetic Minor*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: No. 2 Lime Kiln (2723) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor Construction Permits}(SC SM)]* In order to avoid triggering prevention of significant deterioration (PSD), emissions from the affected source (2723) shall not exceed a SC SM limitation for volatile organic compounds (VOC) of 57 tons per year and/or less and a beryllium limitation of 0.00071 tons per year or less. The affect source is subject to all applicable requirements of SC SM

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Conditions For Unit ID 07 – Chemical Recovery			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			regulations. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A1): Production Monitoring** - The owner or operator shall show continuing compliance with the applicable Synthetic Minor VOC and Beryllium annual limitations using the monitoring required by Facility Wide Condition FW2. **(A2): Deleted.**
07.19	2400 2700 2701 2702 5105 5110 5115	•PSD Significance Monitoring •*SC Std. 7*	See Facility Wide Condition FW.1 (Part 5, Section D)for SC Reg. 61-62.5, Std. 7(r) record keeping and reporting requirements for Construction Permit 2440-0005-DA.
07.20	2400 2500 5100	•HAP (Pulping Vents) •*MACT S*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of *NESHAP 40 CFR 63 Subparts A {General Provisions} and S-{National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry} (MACT S) for affected pulp system vents.* See Part 7.0. for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT S.
07.21	2400 2500 5100	•HAP (Pulp Condensates) •*MACT S*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of *NESHAP 40 CFR 63 Subparts A {General Provisions} and S-{National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry} (MACT S)* for affected pulp system condensates. See Part 7.0. for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT S.
07.22	2505 2110 2723 5105 5110	•HAP (Combustion Sources) •*MACT MM*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of *NESHAP 40 CFR 63, Subparts A {General Provisions} and MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills} (MACT MM).* See Part 7.0. for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT MM.

Table 5.17- Unit ID 08 – Utilities				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
2550	342-375 10^6 Btu/hr [1]Power Boiler (natural gas, No. 6 fuel oil)(225,000 lb/hr Maximum steaming rate on any fuel)	1959	2550C	2550S

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Table 5.17- Unit ID 08 – Utilities				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
2605	392-405 10^6 Btu/hr [2] No. 1 Combination Boiler (natural gas, No. 6 fuel oil, bark, TDF) (275,000 lb/hr Maximum steaming rate (on mixed fuels): (Boiler, TRS gas cooler, TRS gas condenser, TRS mist eliminator, TRS gas reheater)	1959	2605C 2610C1	2610S2
3705	420-720 10^6 Btu/hr [3] No. 2 Combination Boiler (natural gas, No. 6 fuel oil, bark, TDF)(500,000 lb/hr Maximum steaming rate (on oil or gas only) (Boiler, TRS gas cooler, TRS gas condenser, TRS mist eliminator, TRS gas reheater)	1968	3705C 2610C2	2610S1
5260	LVHC Collection System	2001	2605/3705	2610S1/2 Emergency Relief Valves: 24FL331 24FL336 24FL341 51FL262 26FL371
5270	HVLC Collection System	2003	2605/3705	2610S1/2 Emergency Relief Valves: 52HS937 42FL967 52FL967
5261/ 5271	Flame Arrestors, Mist Eliminators, Condensate Collection Tanks	2001/2003	None	5261/ 5271

Notes: 1. 342 MM Btu/hr- No.6 fuel oil; 375 MM Btu/hr -Nat. gas 2. 292 MM Btu/hr-No. 6 fuel oil, bark; 405 MM Btu/hr-natrual gas
3. 498 MM Btu/hr-bark; 700 MM Btu/hr- No.6 fuel oil; 720 MM Btu/hr -Nat. gas

Table 5.18-Control Device(s) For Unit ID 08 – Utilities			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
2605C	No. 1 Combination Boiler 1 Centrifugal Collector	1959	PM/PM_{10}
2610C1	No. 1 Combination Boiler ESP	1980	PM/PM_{10}
3705C	No. 2 Combination Boiler Centrifugal Collector	1968	PM/PM_{10}
2610C2	No. 2 Combination Boiler ESP	1980	PM/PM_{10}

Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
08.1	2550 2605 3705	•Opacity •*SC Std. 1*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Power Boiler (2550), •No. 2 Combination Boiler (2605), No. 2 Combination Boiler (3705) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 1 {Emissions From Fuel Burning Operations} (SC Std. 1)]*

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Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Emissions from affected fuel burning sources constructed prior to December 31, 1985 shall not discharge into the ambient air smoke which exceeds an opacity of forty (40) percent. The 40 percent opacity limits may be exceeded for sootblowing, but may not be exceeded for more than six (6) minutes in a one hour period nor be exceeded for more than a total of twenty-four (24) minutes in a twenty-four (24) hour period. Emissions caused by sootblowing shall not exceed sixty (60) percent opacity. As such, each unit's allowable opacity emission limit is limited to the amount shown in the table below during normal operations (excluding periods of allowed sootblowing, startup, or shutdown): *[SC Reg. 61-62.5, Std. 1, Section I(A)]* The opacity standards set forth above do not apply during startup or shutdown. The owner or operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The owner or operator shall maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request. *[SC Reg. 61-62.5, Std. 1, Section I(C)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Visual Emission Inspections: Affected Source: No. 1 Power Boiler [2550] {No control device}**-The owner or operator shall perform annual visual inspections (VE) to show compliance with SC Std 4 Opacity limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D). **(B): Continuous Opacity Monitoring: Affected Sources: No. 1 and No. 2 Combination Boiler]2605; 3705]-**The owner or operator shall continue to calibrate, operate, and maintain a continuous opacity monitoring system (COMS) on the affected sources. The COMS shall conform with the performance specifications of South Carolina Regulation 61-62.5, Standard 1, Section IV(SD) and in 40 CFR Subpart 60, Appendix B Performance Specification 1, as revised July 1, 1986. The COMS shall complete a minimum of one cycle of operation for each successive ten second period. The owner or operator record and adjust the zero and span as required by South Carolina Regulation 61-62.5, Standard 1, Section IV(D). [SC Reg. 61-62.5, Section IV(A)] Quarterly continuous opacity monitor reports shall be submitted. The report shall include the following minimum information: • All integrated six minute opacity measurements for periods during which the applicable provisions of SC 62.5, Std. 1, Section I have been exceeded, together with their nature and cause. • For periods of monitoring system malfunction: i) The date and time identifying each period during which the monitoring system was inoperative, except for zero and span checks. ii) The nature of monitoring system repairs or adjustments. iii) Proof of opacity monitoring system performance may be required by the Department whenever repairs or adjustments have been made.

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Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			• Boiler system repairs or adjustments made to correct violations of the provisions of SC Regulation 61-62.5, Standard No. 1, Section I. If no reportable incidents occurred during the quarter, a report is also required to indicate such. [SC Reg. 61-62.5, Section VI(B)] The owner or operator shall maintain a file of all information contained in the quarterly reports, calibration data for the COMS, relevant records of adjustments and maintenance performed on such system(s), and all data generated by the COMS.
08.2	2550 2605 3705	•PM •*SC Std. 1* •*CAM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Power Boiler (2550), •No. 1 Combination Boiler (2605), No. 2 Combination Boiler (3705) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.6, Standard No. 1 {Emissions from Fuel Burning Operations (SC Std. 1)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The allowable discharge of particulate matter (PM) resulting from fuel burning operations for the affected sources is 0.6 pounds per million Btu input. The affected sources are subject to all applicable requirements of SC Std. 1. **Testing:** **(A1): No. 1 Power Boiler [2550] (No Control)**-Periodic source testing will be used to show continuing compliance with the applicable PM emission limits for the affected source. Source testing shall be conducted every two (2) years in accordance with SC Regulation 62.1, Section IV and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. For periodic monitoring purposes if a unit exceeds 80 percent of its PM emission limit during a stack test, stack tests shall be scheduled and conducted annually. Upon demonstration that the source is operating under 80 percent of its particulate limit, as shown by two consecutive annual stack tests in which emissions are less than 80% of the standard, the source may resume biennial stack testing. All source test reports shall be submitted to the Manager of the Source Evaluation Section of the Bureau of Air Quality no later than 30 days after the completion of the on-site testing. **(A2): No. 1 and No. 2 Combination Boiler [2605; 3705]**-Compliance with the PM emission limits for the affected sources (2605 and 3705) shall be demonstrated through source testing once every two years in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required

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Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			test protocol. All source test reports shall be submitted to the Manager of the Source Evaluation Section of the Department of Air Quality no later than 30 days after the completion of the on-site testing. *[SC Reg. 61-62.5, Std. 1, Section VI]* **Monitoring/Record Keeping/Reporting/Other:** **(A): Visual Emission Inspections (VE): Affected Sources: No. 1 Power Boiler [2550]**-The owner or operator shall perform VE to show compliance with SC Std 1 PM limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D). **(B1): Parameter Continuous Compliance Assurance (CAM) for PM: Affected Sources: No. 1 and No. 2 Combination Boiler ESP [2610C1; 2610C2]**-The affected sources (2605 and 3705) are subject to 40 CFR 64, CAM (large units) and shall comply with all applicable provisions. The facility will use the COMS installed, calibrated, and operated for showing compliance with SC Std. 1 opacity standards for the CAM for the affected sources. Opacity as determined by each COMS and conditional source testing will be used as the CAM indicators to show reasonable assurance of continuing compliance with SC Std 1 PM limitations. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the indicator(s) [monitoring methods, sampling frequencies, data collection procedures, and averaging time(s) (where appropriate), operation and maintenance practices, and quality control/quality assurance (QA/QC) practices] in the table 06.4.T2 below as well as take corrective action based on the defined excursion range(s) shown in ATTACHMENT H, Table H-1. *[§64.6(c)(1)(iii) and 64.3(b)]* **Table 08.2.T1 Combination Boiler CAM Parameter Monitoring for ESP 2610C1 and 2610C2** **PM Monitoring Method/Data Collection** | **Sampling Frequency/Averaging Time** **CAM Indicator:** (SC Std. 1) • COMS (Opacity) **Data Collection**: Computer System and Manual Record Keeping] | **Frequency**: Minimum of one cycle of sampling and analyzing every successive 10-second period **Monitor requirements**: • 40 CFR 60, Appendix B-Performance Specification 1 • SC Std. 1 | **Averaging:** One Cycle of data averaged each successive 6-minute period] To meet the requirements of 40 CFR 64 the owner or operator shall develop operating ranges for CAM indicators parameter excursion levels. These operational levels shall be derived from data which demonstrate compliance. Process and capture system operational parameters shall be monitored during the stack tests and operational ranges or inspection and maintenance activities shall be developed for these parameters to reflect proper operation and maintenance of the control device and capture system. Testing must be conducted in accordance with SC Regulation 61-62.1, Section IV, and Source Tests. The owner or operator shall coordinate with the Source Evaluation Section of this Department, and the test must be performed according to a protocol approved by this Department. The Department shall be notified not less than two (2) weeks before the initiation of the test and the final test report must be submitted no later than 30 days after completion of on-site testing. The excursion/exceedance levels shall be submitted along with operating ranges and supporting data to the Manager of Engineering Services Division, Department of Air Quality for approval prior to use. The operating ranges may be updated using this

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Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			procedure. Compliance with CAM is required with in 180 days after the issue date of this operating permit. These ranges will be incorporated into ATTACHMENT H, Table H-1. Upon detecting an excursion, (When any ten (10) consecutive 6-minute averages over the opacity excursion range) the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). The owner or operators hall follow all applicable quality control/quality assurance, calibration, operation and maintenance, record keeping, requirements used for opacity monitoring required by South Carolina Regulation 61-62.5, Standard 1. A semiannual report for monitoring shall include, at a minimum, the information required under § 70.6(a)(3)(iii) and the following information as applicable: • Summary information of the number, duration and cause (including unknown cause, if applicable) of excursions, as applicable, and the corrective actions taken; • Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero span or other daily calibration checks, if applicable); • If applicable, a description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions occurring. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective action, and quality improvement plans. **(B2): Additional Large CAM Unit Monitoring Requirements: Affected Sources: Combination Boilers [2605; 3705]-**If the COMS data (excluding startup and shutdown as well as bad COMS data) averaged over a six (6) minute periods shows excursions over the 40 % Opacity for six (6) percent or more of the operating time within any quarterly period above the defined CAM excursion level, the permittee shall perform a stack test in the following calendar quarter to demonstrate compliance with SC Std. 1 PM standard. The permittee shall submit and have Department approval for a compliance test protocol representative of operational conditions during the period in question as required by SC Regulation 62.1, Section IV - "Source Tests" before conducting any tests. **(C): Operational Venting Requirement: Affected Source: Combination Boilers [2605; 3705]-**Prior to venting through the bypass stack(s) at boiler, the owner or operator shall terminate the combustion of wood waste in the boiler until such time as emissions are diverted back to the main stack.
08.3	2550 2605 3705	•SO_2 •*SC Std. 1*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Power Boiler (2550), •No. 2 Combination Boiler (2605), No. 2 Combination Boiler (3705)

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Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 1 {Emissions From Fuel Burning Operations} {SC Std. 1)]* The maximum allowable discharge of Sulfur Dioxide (SO_2) resulting from the fuel burning operations is 3.5 pounds per million Btu input for the affected sources. *[SC Reg. 61.65.5, Std. 1, Sec. III]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Fuel Use: Affected Source: No. 1 Power Boilers [2550]**-The affected source (2550) is permitted to burn only No. 6 fuel oil (maximum sulfur content 2.5%) and natural gas as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. The owner or operator record monthly No. 6 oil (sulfur content less than or equal to 2.5%) and natural gas usage. Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site. These records shall be maintained on site. *[SC Reg. 61-62.5, Std. 1, Section VI]* **(B): Fuel Use: Affected Sources: Combination Boilers [2605; 3705]**-The affected sources (2605 and 3705) are permitted to burn only No. 6 fuel oil (maximum sulfur content 2.5%); natural gas; Tire Derived Fuel (TDF), LVHC gases, cores, wastepaper (not office), wood waste and specification oil as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. The owner or operator must record monthly fuel usage (sulfur content less than or equal to 2.5%). Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site. *[SC Reg. 61-62.5, Std. 1, Section VI]*
08.4	--	--	RESERVED
08.5	2605 3705	•Spec Oil •*SC Std. 3*	**Limits/Standards [State Only: Yes]:** The following are affected source(s) for this condition: •No. 1 Combination Boiler (2605), •No. 2 Combination Boiler (3705) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 3 {Waste Combustion and Reduction} (SC Std. 3)]* The facility is subject to applicable requirements of SC Std. 3 for burning used oil. The affected sources (2605 and 3705) are allowed to burn specification used oil (spec oil) that is purchased or generated on-site. Spec oil is oil that has been refined from crude or synthetic oil and as a result of use, storage, or handling, has become unsuitable for its original purpose due to the presence of impurities or loss of original properties, but which may be suitable for further use and may be economically recyclable. This also includes absorbent material contaminated with used oil such as oily rags or absorbent blankets. Spec oil burned in the combination boilers must meet the following specifications: **Table 08.5.T1-Standard 3 Specification Oil Limits for ID 08: 2605 and 3705** **Pollutant** | **Specification Oil Limit** arsenic | 5 parts per million (ppm) maximum cadmium | 2 parts per million (ppm) maximum

PROPOSED

Conditions For Unit ID 08 – Utilities

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			Table 08.5.T1-Standard 3 Specification Oil Limits for ID 08: 2605 and 3705 **Pollutant** – **Specification Oil Limit** arsenic – 5 parts per million (ppm) maximum cadmium – 2 parts per million (ppm) maximum ppm = parts per million *Used oil containing more than 1000 parts per million total halogens is presumed to be a hazardous waste. The burden of proof that this is not true rests with the user. For this emission limitation , the procedures in South Carolina Regulations 61-62.5, Standard 3, Section V , A and H shall be used to define and quantify compliance with requirements for these units. *[SC Reg. 61-62.1, Section I(91) {Definitions}; SC Reg. 63-62.5, Std. 3, Section I]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** The affected sources (2605 and 3705) are permitted to burn only spec oil and TDF as fuel, which are subject to SC Std. 3 requirements. The affected sources are also permitted to burn No. 6 fuel oil (maximum sulfur content 2.5%); natural gas; low volume high concentration (LVHC) gases, high volume low concentration (HVLC) gases, total reduced sulfur (TRS) gases, cores, wastepaper (not office), and wood waste as fuel, which are not subject to SC Std. 3 or are exempted from Std. 3 requirements. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. On an annual basis, the facility shall test representative samples of specification oil that are to be burned for the following: • Classify as either hazardous or non-hazardous on an annual basis for site generated spec oil. • Classify site generated spec oil as spec oil or non spec oil and analyze for heat value; total halogen; flash point; percent nitrogen; percent sulfur annually. • Each batch of spec oil that is to be burned (purchased from off-site) must be classified as spec oil or non spec oil and analyzed for heat value; total halogen; flash point; percent nitrogen; percent sulfur Analytical methods shall be in accordance with South Carolina Regulation 61-62.5, Standard 3, Section V(H), unless alternative methods are approved by the Manager of Technical Management , Bureau of Air Quality. Records of all analyses shall be maintained and annual reports of the analysis (as required above) shall be submitted to Department. *[SC Reg. 61-62.5, Std. 3, Section V]*
08.6	2605 3705	•Metals and HCl (TDF) •*SC Std. 3*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Combination Boiler (2605), •No. 2 Combination Boiler (3705) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 3 { Waste Combustion and Reduction} (SC Std. 3)]* The affected sources (2605 and 3705) are allowed to burn tire-derived fuel (TDF). When TDF is combusted the pollutant limitations in SC Std. 3 must be met. Emission limitations for TDF, specified as lbs/10^6 total heat input from all fuels being burned are as follows: *[SC Reg. 61-62.5, Std. 3, Section III; SC Reg. 61-62.5, Std. 3, Section I; SC Reg. 61-62.5,*

PROPOSED

Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Std. 3, Section J] **Table 08.6.T1 Standard 3 Waste Burning Limits for ID 08: 2605 and 3705** **Pollutant** / **Emission Limit (lb/10^6 Btu input)** Arsenic (As) / $\leq$ 1.7 x 10^{-3} Cadmium (Cd) / $\leq$ 1.0 x 10^{-4} Chromium (Cr) / $\leq$ 7.4 x 10^{-4} Lead (Pb) / $\leq$ 5.0 x 10^{-3} Nickel (Ni) / $\leq$ 6.0 x 10^{-3} Hydrogen chloride (HCl) / $\leq$ 0.45 $\leq$ = less than or equal to lb/10^6 Btu input = pounds per million Btu heat input TDF fuel usage may not exceed 1.5 tons per hour of TDF (each boiler), unless supported by source testing. **Testing:** The owner or operator was required to perform an initial source test to show compliance with the limits for metals and hydrogen chloride. The results of the required testing have been approved by the Bureau. TDF fuel usage may not exceed 1.5 tons per hour of TDF (each boiler), unless supported by source testing. *[SC Reg. 61-62.5, Std. 3, Sec. VIII]* **Monitoring/Record Keeping/Reporting/Other**: The affected sources (2605 and 3705) are permitted to burn only spec oil and TDF as fuel, which are subject to SC Std. 3 requirements. The affected sources are also permitted to burn No. 6 fuel oil (maximum sulfur content 2.5%); natural gas; low volume high concentration (LVHC) gases, high volume low concentration (HVLC) gases, total reduced sulfur (TRS) gases, cores, wastepaper (not office), and wood waste as fuel, which are not subject to SC Std. 3 or are exempted from Std. 3 requirements. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. Whenever TDF is being used as a fuel, the feed rate will be monitored hourly TDF fuel usage, and the TDF use may not exceed 1.5 tons per hour of TDF (each boiler), unless supported by source testing. For each new TDF waste stream (new TDF supplier) or for changes in throughput being evaluated, the facility shall: • Classify all TDF waste burned as either hazardous or non-hazardous. • Each TDF waste stream and each TDF waste batch/shipment that is to be burned shall be identified by waste analysis or special knowledge of the waste for those air toxic compounds identified in SC Regulation 62.5, Standard 8. • Each TDF waste stream shall be analyzed for heat value; total halogen; percent nitrogen; percent sulfur. *[SC Reg. 61-62.5, Std. 3, Sec. I; SC Reg. 61-62.5, Std. 3, Section V]* Analytical methods shall be in accordance with South Carolina Regulation 61-62.5, Standard 3, Section V(H), unless alternative methods are approved by the Manager of Technical Management , Bureau of Air Quality. Records of all analyses and TDF fuel usage shall be maintained on site. Semiannual reports where the hourly TDF rates were exceeded or if no exceedances occurred shall be submitted to the Bureau.
08.7	2605 3705 5260 5270	•TRS gases •*SC Std. 4* •*NSPS BB*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Combination Boiler (2605), •No. 2 Combination Boiler (3705), Low Volume High Concentration (LVHC) Collection System (5260), High Volume Low Concentration (HVLC) Collection System (5270), Stripper Off Gases (SOG) Collection

PROPOSED

Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
	9820	•*CAM*	System (9820) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions From Process Industries} (SC Std. 4)];* • *[NSPS 40 CFR 60, Subparts A {General Provisions} and BB {Standards Of Performance For Kraft Pulp Mills} (NSPS BB)]* • *[40 CFR 64{ Compliance Assurance Monitoring} (CAM)]* The owners or operators are permitted to combust TRS gases collected from sources (5260, 5270, and 9820) that are required to be collected and incinerated by SC 4 and/or NSPS BB. As required by these regulations the TRS shall be subjected to a minimum temperature of 1200° F for at least 0.5 seconds. *[SC Reg. 61-62.5, Std. 4, Section D(1); NSPS 40 CFR 60.280; §60.281; §60.283(a); §60.283(a)(1); §60.283(a)(1)(3)]* The specific sources in affected systems that require collection and control are listed in Table E-1 of ATTACHMENT E, which is considered a Federally enforceable part of this condition and permit. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other: Compliance Assurance Monitoring (CAM) for TRS-**The affected sources (2605, 3705, 5560, 5270, 9820) sources are subject to 40 CFR 64, CAM and shall comply with all applicable provisions. To meet the requirements of 40 CFR 64 for the affected sources, the indicator for TRS reduction will be the status of TRS venting or losses from the collection system of affected TRS sources required to be routed to boilers. The owner or operator will keep records of all venting, bypasses, and/or TRS losses that are exhausted to the atmosphere without being combusted in the boilers. The venting time period and source of the venting event shall be determined and recorded. As approved by the Department, the owner or operator shall continue to operate, and maintain a flame failure system for these boilers provide positive indication of vents when there is an absence of a flame in a boiler. The status of affected TRS streams shall be used to provide reasonable assurance of continuing compliance with SC Std. 4 and NSPS BB TRS reduction requirements. To meet the requirements of 40 CFR 64 the owner or operator shall maintain the parameters and indicator(s) [monitoring methods, sampling frequencies, date collection procedures, and averaging time(s) (where appropriate)] in Table 08.6.T1 below as well as take corrective action based on the excursion level(s) shown in ATTACHMENT H, Table H-1. **Table 0.8.6.T1 CAM TRS Parameter Monitoring Methods for Boilers 2605 and 3705** **Monitoring Method/Data Collection** | **Sampling Frequency/Averaging Time** **CAM Indicator:** [SC Std. 4 and NSPS BB] • TRS Venting Status **Data Collection**: Computer systems and manual record keeping | **Frequency**: Continuous-The duration and source of each TRS venting episode determined **Averaging:** No averaging For streamlining purposes a CAM excursion will have the same definition as an excess emission defined by NSPS BB, that is, any TRS gases from affected sources that are not exposed to the specified combustion temperatures for a period of five (5) minutes (venting of untreated gases).

Conditions For Unit ID 08 – Utilities			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Upon detecting an excursion, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions). For QA/QC purposes the owner or operator shall check the operation of the flame failure systems and the systems that indicate and/or record vents of TRS gases to the atmosphere on a monthly basis. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. A semiannual report for monitoring shall include, at a minimum, the information required under § 70.6(a)(3)(iii) and the following information as applicable: • Summary information of the number, duration, source, and cause (including unknown cause, if applicable) of excursions, as applicable, and the corrective actions taken; excess emissions for South Carolina Standard 4 and NSPS BB will also be reported. • Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero span or other daily calibration checks, if applicable); • If applicable, a description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions occurring. The owner or operator shall maintain records of monitoring data, monitor performance data, excursions, corrective actions, and quality improvement plans. In addition, records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment.
08.8	2605 3705 5260 5270 9820	•HAP (Vent Gases) •*MACT S*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of the following regulation(s) (reg.): *[NESHAP 40 CFR 63, Subparts A {General Provisions}; S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}; and SC Reg. 61-62.63, Subparts A and S (MACT S)]* See Part 7.0 for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT S.

Table 5.19- Unit ID 09 – Waste Treatment				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
2901	Mix Box	1959/1999	N/A	2901
2901	Bar Screen	1959/1999	N/A	2901
2901	Primary Clarifier	1959/1999	N/A	2901

PROPOSED

Table 5.19- Unit ID 09 – Waste Treatment				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
2901	Settling Pond	1959/1999	N/A	2901
2901	Aerated Biotreatment	1959/1999	N/A	2901
2901	Holding Basins	1959/1999	N/A	2901
2901	Tertiary Treatment Plant	1959/1999	N/A	2901
2902	No. 1 Holding Basin Pump No. 1 (325 hp Diesel Pump)	1988	N/A	2902
2903	No. 1 Holding Basin Pump No. 2 (345 hp Diesel Pump)	1999	N/A	2903
2904	Aerated Stabilization Basin Pump (200 hp Diesel Pump)	2001	N/A	2904
2905	Tertiary Treatment Plant Pump (200 hp Diesel Pump)	2001	N/A	2905
9800	180,000 gallon Condensate Collection Tank	1999	2605/3705	2610S1 2610S2
9801	800 gallon/minute Condensate Steam Stripper	2000	2605/3705	2610S1 2610S2
9820	Stripper Off Gases (SOG)Collection System	2001	2605/3705	2610S1/2

Table 5.20-Control Device(s) For Unit ID 09 – Waste Treatment			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
2605	B & W No. 1 Combination Boiler	1959	TRS/HAP/VOC
3705	B & W No. 2 Combination Boiler	1968	TRS/HAP/VOC
9801	800 gallon/minute Condensate Steam Stripper	2000	Condensate HAP
9820	Stripper Off Gases (SOG) Collection System	2001	TRS/HAP/VOC

Conditions For Unit ID 09 – Waste Treatment			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
09.1	2902 2903 2904 2905 9800 9801	•Opacity •PM •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Holding Basin Pump No. 1 (2902), •No. 1 Holding Basin Pump No. 2 (2903), •Aerated Stabilization Basin Pump (2904), •Tertiary Treatment Plant Pump (2905), •Condensate Collection Tank (9800), •Condensate Steam Stripper (9801) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions From Process Industries} (SC Std. 4)]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit opacity greater than 20% for the affected sources. *[SC Reg. 61-62.5, Std. 4, Section IX(B)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Affected Sources: [9800, 9801]** -Not required. Equipment process and stores pulping condensates that have no potential visible emissions. **(B): Visual Emission Inspections (VE): Affected Sources: [2902, 2903, 2904, 2905]**-

PENDING

PROPOSED

<table>
<tr><th colspan="4">Conditions For Unit ID 09 – Waste Treatment</th></tr>
<tr><th>Condition No.</th><th>Equip ID</th><th>Regulated Pollutant/ Standard</th><th>Conditions</th></tr>
<tr><td></td><td></td><td></td><td>The owner or operator shall perform VE to show compliance with SC Std 4 Opacity limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4.</td></tr>
<tr><td>09.2</td><td>2902
2903
2904
2905</td><td>•PM

•SC Std. 4</td><td>Limits/Standards [State Only: No]: The following are affected source(s) for this condition: •No. 1 Holding Basin Pump No. 1 (2902), •No. 1 Holding Basin Pump •No. 2 (2903), Aerated Stabilization Basin Pump (2904), •Tertiary Treatment Plant Pump (2905)

The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.):
• [SC Reg. 61-62.5, Standard No. 4 {Emissions From Process Industries} (SC Std. 4)]

Particulate matter (PM) emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, the allowable PM emissions limit for the affected sources is limited to the amount shown in the table below at its nominal production rating: [SC Reg. 61-62.5, Std. 4, Section VIII]

<table><tr><th colspan="3">Table 09.2.T1 PM Limitations for ID 09: 2902, 2903, 2904, and 2905</th></tr><tr><th>Equipment</th><th>Emission Limit (lbs/hr)</th><th>Process Weight Rate (tph)</th></tr><tr><td>2902</td><td>≤ 49.87</td><td>86.8</td></tr><tr><td>2903</td><td>≤ 49.87</td><td>86.8</td></tr><tr><td>2904</td><td>≤ 35.43</td><td>25.0</td></tr><tr><td>2905</td><td>≤ 35.43</td><td>25.0</td></tr></table>lb/hr = pounds per hour
tph = tons per hour
≤ = less than or equal to

Testing: Not Required

Monitoring/Record Keeping/Reporting/Other: Visual Emission Inspections (VE)- The owner or operator shall perform VE to show compliance with SC Std 4 PM limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4.</td></tr>
<tr><td>09.3</td><td>2903</td><td>•NO_X

•SC Synthetic Minor</td><td>Limits/Standards [State Only: No]: The following are affected source(s) for this condition: No. 1 Holding Basin Pump No. 2 (2903)

The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.):
• [SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor Construction Permit} (SC SM)]

The emissions of Nitrogen Oxides (NO_X) for the affected source subject to a SC SM of less than 35.26 tons per year in order to avoid prevention of significant deterioration (PSD) review. The affected source (2903) is subject to all applicable requirements of SC SM regulations.

Testing: Not Required</td></tr>
</table>

Conditions For Unit ID 09 – Waste Treatment			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Monitoring/Record Keeping/Reporting/Other: Synthetic Minor (SM) Operating Limitation: The affected source (2903) is limited to operating a maximum of 7,000 hours per year. The owner or operator must record the actual operating hours monthly and maintain these records on site. Semiannual reports including all recorded parameters and calculated values shall be submitted.
09.4	9801	•TRS •*NSPS BB*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Condensate Stripper System (9801), •Stripper Off-Gas (SOG) Collection System (9820) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NSPS 40 CFR 60, Subparts A {General Provisions), and BB { Standards Of Performance For Kraft Pulp Mills} (NSPS BB)]* The affected sources are subject to all applicable requirements of NSPS BB for total reduced sulfur (TRS) reduction. The TRS content of the gases from the affected sources shall be less than or equal to 5 parts per million by volume on a dry basis corrected to 10 percent oxygen or each of these sources must be combusted in the *No. 1 Combination Boiler* (2605)and/or *No. 2 Combination Boiler* (2705) for TRS reduction. The TRS gases are subject to a minimum temperature of 1200° F for at least 0.5 second. *[NSPS 40 CFR 60.280; §60.281; §60.283(a); §60.283(a)(1); §60.283(a)(1)(iii)]* The specific sources in affected systems that require collection and control are listed in Table E-1 of ATTACHMENT E, which is considered a Federally enforceable part of this condition and permit. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** This source is subject to 40 CFR 64, CAM and shall comply with all applicable provisions. See TRS conditions for the combination boilers (ID 08 Equipment No. 2605 and 3705), TRS control devices, for specific CAM monitoring, record keeping, and reporting.
09.5	9800 9801	•HAP •*MACT S*	This facility, including the affected sources for this emission unit, is subject to all applicable limits and requirements of the following regulation(s) (reg.): *[NESHAP 40 CFR 63, Subparts A {General Provisions}; S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}; and SC Reg. 61-62.63. Subparts A and S (MACT S)]* See Part 7.0 for limitations, notification, testing, monitoring, inspection, SSM, record keeping, and reporting requirements of MACT S.

Table 5.21- Unit ID 10 – Storage Tanks				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
M10-223	Methanol Tank	post 1984	N/A	1100

Table 5.22-Control Device(s) For Unit ID 10 – Storage Tanks			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
None	None	None	None

PROPOSED

Conditions For Unit ID 10 – Storage Tanks			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
10.1	1100	•Opacity •*SC Std. 4*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Methanol Tank (M10-223) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg.61-62.5, Standard No. 4 {Emissions From Process Industries} (SC Std. 4)]* Where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit opacity greater than 20% for the affected sources. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Not Required. Tank contains methanol that has no potential visible emissions.
10.2	1100	•VOL •*NSPS Kb*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: Methanol Tank (M10-223) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NSPS 40 CFR 60, Subparts A {General Provisions}; Kb {Standards Of Performance For Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) For Which Construction, Reconstruction, Or Modification Commenced After July 23, 1984}; and SC Reg. 61-62.60, Subparts A and Kb (NSPS Kb)}* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** In accordance with §§60.116b(a) through 60.116(d) the owner or operator shall notify the Department within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range as listed in §60.116(d).

***Table 5.23*- Unit ID 11 – Miscellaneous**				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
2900	Landfill	1959	N/A	2900
1000	Road Activities	1959	N/A	1000
1000	Equipment Leaks & Cleaning Material usage	1959	N/A	1000
1000	Miscellaneous Material Usage	1959	N/A	1000

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***Table 5.24*-Control Device(s) For Unit ID 11 – Miscellaneous**			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
None	None	None	None

Conditions For Unit ID 11 – Miscellaneous			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
11.1	2900 1000	•Fugitive •*SC Std. 4* •*SC Std. 62.6*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Landfill (2900); •Road Activities (1000) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries (SC Std. 4};]* • *[SC Reg. 61-62.6 {Control of Fugitive Particulate Matter} (SC Std. 62.6)]* All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter (PM) becomes airborne. In no case shall established air quality standards be exceeded at or beyond the property line. The owner or operator shall maintain dust control on the premises by suitable measures. Oil treatment is prohibited. *[SC Reg. 61-62.5, Std. 4, Sec. X(A) and X(B); §61-62.6]* **Testing**: Not Required **Monitoring/Record Keeping/Reporting/Other: Visual Emission Inspections (VE)-** The owner or operator shall perform VE to show compliance with SC Std 4 and SC Std. 62.6 fugitive emissions limitations in accordance with the frequencies and procedures in Facility Wide Condition FW.4 (Part 5, Section D).

D. Facility Wide – LIMITATIONS, MONITORING AND REPORTING

Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
FW.1	ID 01: 1300 ID 02: 5210 5220 5230 5240 5250 ID 03: 5300 ID 06: 2000 2100 2110 4100 4110	•CO •VOC •TRS •H_2S •H_2SO_4 •Lead •*PSD Significance Monitoring SC Std. 7*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: Woodyard (New Truck Dumper)(1300), Continuous Digester System (5210), Turpentine Recovery System (5220), Pulp Washing System (5230), Oxygen Delignification System (5240), Knotting and Screening System (5250), Kraft Bleach Plant (5300), No. 1 Paper Machine (2000), No. 1 Paper Machine Coater (2110), No. 2 Paper Machine (4600), No. 2 Paper Machine Coater (4640), No. 3 Paper Machine (4100), Air Flotation Dryer (4110), Infrared Dryer (4120), Hot Oil Heating System (4130), Pulp Dryer (2100), No. 1 Evaporator (2400), Causticizing equipment (2700), Slaker (2701), Fresh Lime Silo (2702), No. 3 Recovery Furnace (5105), No. Smelt Dissolving Tank (5110), No. 3 Precipitator Mix Tank (5115) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.5, Standard No. 7 {PSD (SC Std. No. 7)}]* **Testing:** Not Required.

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PROPOSED

Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
	4120 4130 4600 4610 ID 07: 2400 2700 2701 2702 5105 5110 5115		**Monitoring/Record Keeping/Reporting/Other:** Past actual to future actual emissions calculations were used in the prevention of significant deterioration and non-attainment review for construction permit 2440-0005-DA that allowed process modifications to support a production increase for the facility. The use of these calculations requires record keeping as specified in South Carolina Regulation 61-62.5, Standard 7(r). The owner or operator shall maintain the following information : • A project description • Identification of the emissions unit(s) whose emissions of a regulated new source review (NSR) pollutant could be affected by the project; and • A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded under paragraph South Carolina Regulation 61-62.5, Standard No. 7(b)(41)(ii)(c) and an explanation for why such amount was excluded, and any netting calculations. In addition, the owner or operator shall determine the emissions of volatile organic compounds (VOC), carbon monoxide (CO), and total reduced sulfur as hydrogen sulfide (TRS), hydrogen sulfide (H_2S), sulfuric acid (H_2SO_4), and lead (Pb) using appropriate production information for the emission units affected directly and indirectly by this project. The actual annual emissions shall be calculated in tons per year on a calendar year basis. Records of the emissions along with the supporting data shall be kept for a period of ten (10) years and submitted to the Department on request. Engineering Services shall be notified in writing if any actual emissions increase to a level that would have triggered a PSD review based on the base line and contemporaneous emissions submitted with the construction permit application. In addition, Engineering Services shall be notified of any increase (as compared to the emission factors submitted in the construction permit application) in the emissions factors used for annual emission rate calculations.
FW.2	ID 07: 2723	•Production •*SC Synthetic Minor*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: No. 2 Lime Kiln (2723) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[SC Reg. 61-62.1,Sec II,H {Synthetic Minor} (SM)]* **Testing:** Not Required **Monitoring/Recordkeeping/Reporting/Other:** The owner or operator must record the monthly production rate for *No. 2 Lime Kiln* and maintain these records on-site. Semiannual reports showing the average ton per day lime production calculated on a 12-month rolling average (not to exceed 465 Tons per day) shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.
FW.3	ID 07: 5105	•PM/PM_{10} •SO_2 •CO •NO_X •VOC	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: No. 3 Recovery Furnace (5105) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.):

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Facility Wide Conditions

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
		•TRS •Be •*SC Std. 7* •*SC Std. 7.1* •*SC Synthetic Minor*	• *[SC Reg. 61-62.5, Standard No. 7 {PSD} (SC Std. 7)]* • *[SC Reg. 61-62.5, Standard No. 7.1 {NSR} (SC Std. 7.1)]* • *[SC Reg. 61-62.1,Sec II,H {Synthetic Minor} (SM)]* **Testing:** Not Required **Monitoring/Recordkeeping/Reporting/Other:** The owner or operator shall show continuing compliance with applicable Synthetic Minor, BACT, and/or LAER particulate matter/particulate matter less than 10 microns (PM/PM_{10}), sulfur dioxide (SO_2), carbon monoxide (CO), nitrogen oxides (NO_X), volatile organic compounds (VOC), total reduced sulfur (TRS), and Beryllium (Be) ton per year (tpy) limits for the *No. 3 Recovery Furnace* using record keeping. The actual monthly tons of black liquor solids and/or fuels fired for the *No. 3 Recovery Furnace* will be used to calculate twelve-month (12) rolling sums for each unit each month. Using the production information along with the best available emission data from Bureau approved emission factors, emission factors based on compliance source tests, and/or emission factors based on certified CEMS data, 12-month rolling average emissions will be calculated each month for each unit for PM/PM_{10}, SO_2, CO, NO_X , VOC, TRS, and Be. Records of this information, along with supporting data and calculations shall be kept for a period of five (5) years and made available to the Bureau on request. The Manager of the Technical Management Section shall be notified within 30 days if any of the twelve-month rolling emission averages is over the ton per year a BACT, LAER, and/or synthetic Minor permit limit.
FW.4	01:1300 06:2000 06:2005 06:4600 06:4605 06:4100 06:4110 06: 9700 06:9701A 06:9701B 06:9702 06:9703 06:9704 06:2000 06:4610 06:4120 06:4130 06:9900 07:2515 07:2520 07:5115 07:5120 07:2700 07:2701 07:2702 07:2703 08:2550 09:2902 09:2903 09:2904 09:2905 11:2900	•Opacity •Fugitive •PM •*SC Std. 4* •*SC Std. 62.6*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: See Table FW.4.T2 below. See conditions for each emission unit for limitations.. **Testing:** See conditions for each emission unit for testing requirements, if required. **Monitoring/Recordkeeping/Reporting/Other:** The owner or operator shall perform visual emission inspections (VE for the affected sources at the frequencies in Table FW4.T1 below.

Table FW.4.T1 Facility Wide Visual Emissions Inspection (VE) Requirements

ID	Equip. No.	Pollutant	Equipment Description	VE Frequency
01	1300	Fugitive Opacity PM	Woodyard	Annual
06	2000	Opacity PM	No. 1 Paper Machine	Annual
06	2005	Opacity PM	No. 1 Paper Machine Rereeler	Annual
06	4600	Opacity PM	No. 2 Paper Machine	Annual
06	4605	Opacity PM	No. 2 Paper Machine Rereeler	Annual
06	4100	Opacity PM	No. 3 Paper Machine	Annual
06	4110	Opacity PM	No. 3 Paper Machine Flotation Dryer	Semiannual
06	9700	Opacity	Starch Silos	Daily [1]
06	9701A	Opacity	Slurry Tank	Annual

Facility Wide Conditions

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
	11:1100		

		PM		
06	9701B	Opacity PM	Slurry Tank	Annual

Table FW.4.T1 Facility Wide Visual Emissions Inspection (VE) Requirements

ID	Equip. No.	Pollutant	Equipment Description	VE Frequency
06	9702	Opacity PM	Starch Cooker	Annual
06	9703	Opacity PM	Flash Tank	Annual
06	9704	Opacity PM	Paste Tank	Annual
06	2010	Opacity	No. 1 Coater Dryer	Annual
06	4610	Opacity	No. 2 Coater Dryer	Annual
06	4120	Opacity	Infrared Dryer	Semiannual
06	4130	Opacity	Hot Oil Heating System	Semiannual
06	9900	Opacity	Air Makeup Units	Annual
07	2515	Opacity	No. 2 Recovery Furnace Precipitator Mix Tank	Annual
07	2520	Opacity	Salt Cake Mix Tank	Annual
07	5115	Opacity	No. 3 Recovery Furnace Precipitator Mix Tank	Annual
07	5120	Opacity	No. 3 Recovery Furnace Precipitator Mix Tank	Annual
07	2700	Opacity	Causticizing Equipment	Annual
07	2702	Opacity	Purchased Lime Silo	Daily
07	2703	Opacity	Reburned Lime Silo	Daily
08	2550	Opacity	No. 1 Power Boiler on Fuel Oil	Daily
08	2550	Opacity	No. 1 Power Boiler on Gas	Annual
09	2902	Opacity PM	No. 1 Holding Basin Pump No. 1	Daily [2]
09	2903	Opacity PM	No. 1 Holding Basin Pump No. 2	Daily [2]
09	2904	Opacity PM	Aerated Stabilization Basin Pump	Daily [2]
09	2905	Opacity PM	Tertiary Treatment Plant Pump	Daily [2]
11	2900	Fugitive	Landfill	Annual
11	1000	Fugitive	Road Activities	Annual

Notes: 1. While unloading; 2. While operating

VE means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), and cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner or operator shall submit semiannual reports to the Department.

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Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
FW.5	5210, 5240, 2400, 5100, 5260, 5260C, 2605, 3705	•SO_2 •*SC Std. 1* •*SC Std. 7*	**Limits/Standards:** The following are affected source(s) and control device(s) for the optimization project to increase Kraft pulp yield (as permitted under construction permit-DC): ►**Equipment No: Description:** ●TV ID: 02: 5240: Oxygen Delignification System ●TV ID: 07: 5100: No. 3 Multi-Effect Evaporator Set ●TV ID 02: 5210: Continuous Digester ●TV ID: 07: 2400: No. 1 Multi-Effect Evaporator Set ►**Control Device(s) No: Description:** ●CD-5260C: LVHC System Caustic Scrubber ●CD-3705: No. 2 Combination Boiler ●CD-5260: LVHC Collection System ●CD-2605: No. 1 Combination Boiler The affected source(s) and control device(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): ●*SC Reg. 61-62.5 Standard No. 1 {Emissions from Process Industries}{SC Std. 1)}* ●*SC Reg. 61-62.5 Standard No. 7 {Standard 7{Prevention of Significant Deterioration (PSD)}(SC Std. 7)* The affected existing sources for this project are subject to PSD best available control technology (BACT) requirements because the project involved a change in method of operation and/or physical changes that resulted in increases in sulfur dioxide (SO_2) emissions for the total project above the PSD significance level. The increases for total project involve potential increases at the modified units as well as unmodified units as a result of a potential incremental pulp production increased through all of the units. The SO_2 emissions increase will not be emitted directly at the modified units for the project, but are the result of combusting incremental increases in total reduced sulfur (TRS) streams routed to the control devices, No. 1 and No. 2 Combination Boilers, where the TRS and any other sulfur containing compounds are incinerated and converted to SO_2 on a stoichiometric basis. The combustion of specific TRS and hazardous air pollutant (HAP) is required by State and/or Federal regulations. PSD BACT was determined to be the continued use of the existing LVHC System Caustic Scrubber [CD-5260C] located ahead of the combination boilers in the LVHC Collection System, and the continued use of the sulfur capture capability of ash in biomass boilers when combusting TRS/HAP streams. The wet caustic pre-scrubber technology is used to reduce the sulfur content of rich TRS/HAP gas streams prior to incineration which reduces the sulfur load to the control devices. The sulfur reduction efficiency scrubbing sulfur rich gases prior to combustion is estimated at approximately 50 percent. None of the HVLC streams and a portion of the LVHC streams pass through a pre-scrubber. Studies show that a portion of the sulfur in fuels combusted with wood (biomass) will be captured by the wood ash in the boiler. The amount of sulfur captured is a function of the wood to fuel sulfur content ratio. At typical operating conditions for the combination boilers the sulfur capture efficiency estimated at approximately 32.5 percent. Since SO_2 was also triggered as a regulated indirect precursor pollutant for $PM_{2.5}$, the SO_2 BACT requirements below will also apply to SO_2 as a PSD regulated precursor pollutant for $PM_{2.5}$. PSD BACT limits for the incineration of TRS and hazardous air pollutant (HAP) streams in either one of the two combination boilers was established as follows:

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Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			●CD-2605: ≤ 10.1 pounds of SO_2 per air dried ton of unbleached pulp from combustion of TRS/HAP streams only ●CD-2605: ≤ 3,364 tons of SO_2 per year from combustion of TRS/HAP streams only ●CD-3705: ≤ 10.1 pounds of SO_2 per air dried ton of unbleached pulp from combustion of TRS/HAP streams only ●CD-3705: ≤ 3,364 tons of SO_2 per year from combustion of TRS/HAP streams only ≤ = Less than or equal to In order to make the PSD BACT limits above practically enforceable, the PSD BACT limits are only for SO_2 emissions created by the combustion of TRS/HAP steams in either boiler, and they apply for all of the SO_2 emissions created by combustion of all TRS/HAP streams, not just the affected streams for this project. The SO_2 emissions from the combustion of other sulfur containing fuels, i.e. fuel oil, are not included in the PSD BACT limits above. In addition to PSD BACT limits when functioning as control devices, the combination boilers are also subject to the SO_2 limitations of SC Std. 1 as follows: ●CD-2605: ≤ 3.5 pounds of SO_2 per million Btu for the combustion of any and all fuels [SC Std. 1] ●CD-3705: ≤ 3.5 pounds of SO_2 per million Btu for the combustion of any and all fuels [SC Std. 1] **State Only:** No **Testing:** Within 180 days from startup after completion of the modifications approved by this permit, the owner or operator shall demonstrate compliance with the SO_2 PSD BACT limits by source testing in accordance with Generic Condition GC2. Compliance with the limits may be demonstrated on either of the two combination boilers by source testing for SO_2 emissions associated with the combustion of TRS/HAP streams. In order to isolate the SO_2 emissions associated only with TRS/HAP combustion, the source testing shall be conducted with the boiler burning only wood, natural gas, and TRS/HAP streams. Pulp production should be as close as possible to the maximum permitted rate of 1,825 air dried tons of unbleached pulp to create worst case conditions. In addition, all TRS/HAP streams that are required to be combusted in the boilers must be routed to the combination boiler being tested. Furthermore, the wood rate to Kraft pulp production rate ratio for the boiler being testing must be above the minimum ratio of 0.2965, and LVHC System Scrubber 5260C must be in operation. Testing shall be conducted and reported in accordance with Generic Condition GC2. **Monitoring/Record Keeping/Reporting/Other:** **(A1): TRS Pre-Scrubber Monitoring/Record Keeping/Reporting:** The owner or operator shall continue to operate and maintain liquid flow and liquid pH indicators for LVHC System Caustic Scrubber (5260C). These scrubber operating parameters shall be recorded at the frequency listed below during source operation. The scrubber shall be in place and operational whenever processes controlled by the scrubbers are running, except during periods of scrubber malfunction or mechanical failure.

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Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			●**Type Monitoring:** •Title V; Parametric monitoring •PSD BACT monitoring ●**Reg. Requirement(s) Monitored: Pollutant(s):** •*SC Std.* 7 *[PSD BACT]* ●**Monitoring Method(s): Parameter(s):** •CPMS: Scrubber Liquid flow indicator •CPMS: Scrubber Liquid ph indicator ●**Monitoring Operation and Maintenance:** • CPMS calibration and QA/QC program ●**Monitoring Frequency: Averaging Time:** •Frequency: At least once daily •Averaging Time: None ●**Data Collection Methods:** •Computer system/ manual record keeping During the initial compliance test for SO_2 emissions associated with the incineration of TRS gases in the combination boilers, operational ranges for the monitored scrubber parameters shall be re-established, if required, to indicate proper operation of the control device as a SO_2 reduction control device in accordance with Generic Conditions GC7 and GC8. Unless otherwise stated in a condition, these operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. If ranges need to be re-established, these ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Manager of Engineering Services, Bureau of Air Quality for approval within 180 days of start up/modification of the source in accordance with Generic Condition GC8 . If the ranges do not change due to this addition/modification, an analysis of the review shall be stored on site. The operating ranges may be updated using this procedure, following Bureau approval. Records of all monitoring data, variances from established parameters, corrective actions taken, and any data and information used to develop ranges shall be kept and made available to the Department on request. Semiannual reports, including any variances from established parameters and appropriate corrective action taken during the reporting period shall be submitted to the Department in accordance with Part 8 of this permit. If no incidences occurred during the reporting period then the report shall indicate such information. **(A2): SO_2 Capture by Wood Ash Monitoring, Record Keeping, and Reporting:** In order to show reasonable assurance of compliance with the PSD BACT limits for combustion of TRS/HAP streams, when TRS/HAP gas streams are combusted in either combination boiler, the wood use rate must be maintained above the following minimum wood rate to Kraft production ratio: ●CD-2605: Minimum Wood Rate/Kraft Pulp Production Ratio: ≥ 0.2965 when combusting TRS/HAP streams ●CD-3705: Minimum Wood Rate/Kraft Pulp Production Ratio: ≥ 0.2965 when combusting TRS/HAP streams > = Greater than or equal to For each operating day, the owner or operator shall monitor and record the combination boiler that is combusting TRS/HAP [NCG] streams, the daily bark fired in each combination boiler, and the daily Kraft pulp production (air dried tons of unbleached pulp (ADTUBP). For each operating day, the owner or operator shall calculate the daily bark/Kraft pulp production ratio by dividing the daily bark fired in the combination boiler incinerating NCG streams by the daily Kraft pulp production. For each operating day, the owner or operator shall calculate the 30-day rolling average

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Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			bark/Kraft pulp production ratio, excluding any operating days when the Kraft pulp mill is down (zero production in the denominator). Record of the above required monitoring data along with supporting information and calculations as well as any excursions below the minimum 30-day rolling average wood rate/Kraft pulp production ratio and any corrective actions taken shall be maintained on-site for a period of at least five (5) years and made available to Department personnel upon request. Semiannual reports, including any daily periods of NCG combustion where any excursions of the 30-day rolling average wood fired/Kraft pulp production ratio below the minimum level of 0.2965 for either combination boiler and any corrective action taken during the reporting period shall be submitted to the Department in accordance with Part 8 of this permit. If no incidences occurred during the reporting period then the report shall indicate such information. **(B): SC Std. 1 Fuel Use Monitoring and Record Keeping:** The combination boiler are permitted to burn only No. 6 fuel oil (maximum sulfur content 2.5%); natural gas; Tire Derived Fuel (TDF), LVHC gases, cores, wastepaper (not office), wood waste and specification oil as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. The owner or operator must record monthly fuel usage (sulfur content less than or equal to 2.5%). Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site. *[SC Reg. 61-62.5, Std. 1, Section VI]* **(C): Annual SO_2 Emissions Monitoring, Record Keeping, and Reporting:** The pounds of SO_2 per air dried ton of unbleached Kraft pulp emissions rate determined during initial source testing will be used along with the daily Kraft pulp production and the combination boiler used to combust TRS/HAP streams to calculate daily SO_2 emissions from the combustion of TRS/HSP streams in either combination boiler. Each month the daily SO_2 emissions data will be used to determine the total SO_2 emissions from TRS combustion for the month as well as the 12-month rolling sum for these emissions. Records of the information, data, and calculations shall be kept and made available to the Department on request. Semiannual reports that include any monthly 12-month sums that are above the annual SO_2 PSD BACT limit [3, 364 tons of SO_2 per year] as well as corrective actions taken shall be submitted to the Department in accordance with Part 8 of this permit. If no incidences occurred during the reporting period then the report shall indicate such information.
FW.6	5210, 5240, 2400, 5100, 5260, 5260C, 2605, 3705	Daily Unbleached Production •*SC Std. 7*	**Limits/Standards:** The following are affected source(s) and control device(s) for this condition yield (as permitted under construction permit-DC): ►**Equipment No: Description:** ●TV ID 02: 5240: Oxygen Delignification System ●TV ID 07: 5100: No. 3 Multi-Effect Evaporator Set ►**Control Device(s) No: Description:** None ●CD-5260C: LVHC System Caustic Scrubber ●TV ID 02: 5210: Continuous Digester ●TV ID 07: 2400: No. 1 Multi-Effect Evaporator Set ●CD-5260: LVHC Collection System ●CD-2605: No. 1 Combination Boiler

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Facility Wide Conditions			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			●CD-3705: No. 2 Combination Boiler The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): ●*SC Reg. 61-62.5 Standard No. 7 {Emissions from Process Industries}{SC Std. 7)}* The daily unbleached pulp production is limited to the following rate: ●Daily Unbleached Production: ≤ 1,825 air dried tons of unbleached pulp per day ≤ = Less than or equal to **State Only:** No **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** The daily unbleached pulp production shall be recorded each day and used to calculate the average daily unbleached pulp production each month. The monthly data will be used to calculate a 12-month rolling average each month. Records shall be kept for all data and calculations and made available to the Department on request. Semiannual reports that include any periods where the monthly 12-month rolling average is above 1,825 air dried tons of unbleached pulp per day along with any corrective actions taken in accordance with Part 8 of this permit. If no incidences occurred during the reporting period then the report shall indicate such information.
FW.7	5210, 5240, 2400, 5100, 5260, 5260C, 2605, 3705	•*SC Std. 7*	The following are affected source(s) and control device(s) for this condition (as permitted under construction permit-DC): ►**Equipment No: Description:** ●TV ID: 02: 5240: Oxygen Delignification System ●TV ID: 07: 5100: No. 3 Multi-Effect Evaporator Set ●TV ID 02: 5210: ●TV ID: 07: 2400: No. 1 Multi-Effect Evaporator Set ►**Control Device(s) No: Description:** ●CD-5260C: LVHC System Caustic Scrubber ●CD-3705: No. 2 Combination Boiler ●CD-5260: LVHC Collection System ●CD-2605: No. 1 Combination Boiler The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): ●*SC Reg. 61-62.5, Standard No. 7(r) {Emissions from Process Industries}{SC Std. 7)}* The PSD project, permitted under construction permit DC, is based on improving the efficiency of the conversion of wood chips into unbleached pulp by shifting a portion of the primary purpose of Kraft chemical pulping, removal of lignin from the wood matrix to allow separation of the usable wood fibers, from the pulp digester to the downstream oxygen delignification and bleaching steps. This downstream process can remove the lignin more selectively thereby preserving the cellulose and hemicelluloses that make up the usable fiber. By preserving more of the cellulose and hemicelluloses, the overall yield of pulp fiber from a given amount of wood chips can be incrementally increased without putting additional requirements on the woodyard, chemical

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Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			preparation and chemical recovery processes. The amount of residual lignin remaining in at the end of the Kraft pulping process is typically measured by a parameter (pulp test for residual lignin) referred to as a kappa number or k-number. An increase in the Kappa number is a direct indication of the success of the goal to increase the over all efficiency of the conversion wood chips to pulp. Past actual to future actual emissions calculations with adjustments the future actual emissions based on emissions that could have been accommodated that are not related to the project were used in the prevention of significant deterioration review for construction permit 2440-0005-DC. The use of these calculations requires record keeping as specified in SC Regulation 61-62.5, Standard 7(r). In addition to the information specifically required by SC Std. 7, the facility will keep records of the kappa number as specified below. The owner or operator shall maintain the following information and make the records and supporting data and information available to the Department on request: ●A description of the project ●Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project; and a description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded under SC Regulation 6162.5, Standard 7(b)(41)(ii)(c) and an explanation for why such amount was excluded, and any netting calculations, if applicable. ●The owner or operator shall monitor the emissions of any regulated NSR pollutant that could increase as a result of the project [nitrogen oxides (NO_X and volatile organic compounds (VOC)]and that is emitted by any emissions unit identified in paragraph SC Regulation 61-62.5, Standard 7(r)(6)(ii)(b); and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit that regulated NSR pollutant at such emissions unit. ●The owner or operator shall keep records of the average kappa number for the baseline for the project as well as keep records of the actual monthly average of the actual kappa-number and a 12-month rolling average of the actual kappa-number for a period of 10 years following resumption of regular operations after the change.

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PART 6.0 ADDITIONAL CONDITIONS

A. OPERATIONAL FLEXIBILITY

1. The following activities shall be allowed, without a construction permit, or without revising or reopening the operating permit with proper advanced notification unless otherwise specified by S.C. Regulation 61-62.70 or any other State or Federal requirement. The activity will not result in emissions that will exceed any limit in this permit or the facility's potential to emit; the activity itself

is not considered a modification under 40 CFR Part 60, 61 or 63. 40CFR63 (MACT) related activities are not covered under this permitting flexibility condition.

As part of this permit flexibility procedure the facility shall keep an on-site implementation log (OSIL) to document all changes made under the procedure. The OSIL shall provide detailed contemporaneous information supporting the changes made under this procedure. The OSIL shall be readily available to the Department.

Existing emission limitations defined in an approved air permit are not exceeded or there is no increase in emissions at or above exemption thresholds.

Table 7.1 Operational Flexibility Changes Allowed with Notification and OSIL Record Keeping

Condition Number	Conditions
1.	Replacement of process equipment such as reactors, storage tanks, etc. with equipment identical in capacity, dimensions, and characteristics or with equipment that will have the same or lower emissions.
2.	Manufacture of new products in existing equipment.
3.	Additions of new raw material, and changes in raw material usage or formulation including paints and other coatings that do not necessitate construction or modification to existing equipment.
4.	Addition of control devices for the purpose of hygiene, safety, or other non-creditable decreases in emissions.
5.	Re-routing of stacks or any change in stack parameters (i.e. stack height, orientation, diameter, removal or addition of rain caps).
6.	Changes in the sequence of process operations.
7.	Change in the method of raw material addition.
8.	Short term trials (90days or less duration) of new product(s), paper grade(s), new chemicals, additives, alternative fuels, equipment configuration, and/or equipment locations as long as the limitations and requirements in this permit are met.

A notice is required at least seven (7) days prior to beginning the actual activities authorized in the items above. This notice shall be submitted to the Engineering Services Division and District Air Section Manager by using the applicable form. A copy of the notice shall be kept in the On-Site Implementation Log (OSIL). The notification shall include but is not limited to the following information:

Table 7.2 Operational Flexibility Notification Requirements

Condition Number	Conditions
i.	A brief description of the modification(s) and how it relates to the above pre-approved changes including any flow diagrams, equipment identification, etc. that help clarify the proposed changes.
ii.	The date the modification(s) will occur.
iii.	Identification of what equipment/emissions units the modification(s) will affect. (Include Operating Permit unit identification, equipment identification, stack identification, etc.)
iv.	The schedule for the implementation of the modification(s).
v.	An applicability determination showing the proposed physical or operational change will not be a modification under 40CFR60, 40CFR61, or 40CFR63. An applicability determination showing the proposed physical or operational change will not be cause the facility or activity to be subject to South Carolina Regulation 61-62.5, Standard 5.1, or South Carolina Regulation 61-62.5, Standard 7.
vi.	Uncontrolled and controlled emissions calculations for all regulated air pollutants resulting from the activity and demonstration that when added to the existing emissions all permit limits will be met. This

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Table 7.2 Operational Flexibility Notification Requirements	
Condition Number	**Conditions**
	should include the increase and the facility-wide PTE uncontrolled and controlled emissions totals from the modification(s).
vi.	Demonstrate compliance with South Carolina 61-62.5, Standards 2, 7, and/or 8, or a statement indicating (including actual date) that compliance with these standards is demonstrated. Failure to demonstrate compliance with these standards will constitute an incomplete notice and will result in the cessation of the modification.

A written notification from this Department will be provided only if the proposed activities are not consistent with the above conditions. The owner or operatormust cease implementation of any modification if it is found to be inconsistent with the permit flexibility conditions, and may also be subject to possible enforcement action(s). The permittee assumes the risk of any financial loss resulting from implementing the modification(s) prior to receiving the Department's approval. Implementation of the modification(s) may be resumed upon receipt of written approval. Title V facilities must also have the OSIL certified by a responsible official annually.

2. The following operational changes shall be allowed without a construction permit and without written notification provided that: the modification(s) will not result in emissions that will exceed any limit in this permit or the facility's potential to emit; any existing equipment associated with this modification is not subject to regulation under 40 CFR Part 60 (Standards of Performance for New Stationary Sources), Part 61 (National Emission Standards for Hazardous Air Pollutants) or 63 (National Emission Standards for Hazardous Air Pollutants, also known as MACT Standards); the modification itself will not be subject to regulation under 40 CFR Part 60, 61 or 63; and compliance with South Carolina Regulation 61-62.5 Standards 2 (Ambient Air Quality Standards), 7 (PSD) and 8 (Toxic Air Pollutants) is demonstrated.

Table 7.3 Operation Flexibility Allowed Without Notification	
Condition Number	**Conditions**
1.	The operational changes in the physical dimensions, layout, configuration of equipment, arrangement or locations of process equipment to accommodate production needs as long as it does not affect air emissions or impact modeled stack parameters.
2.	Changes in the supplier of raw materials, fuels, or paints and other coatings, as long as there are no changes in formulation.
3.	Change in operating parameters as long as they do not quantitatively affect air emissions or impact modeled stack parameters.
4.	Maintenance/repair activities at the facility that result in no net increase and do not trigger NSPS or PSD requirements. Some maintenance activities may trigger PSD and/or NSPS activities.
5.	Any activity exempted in South Carolina Regulation 61-62.1 Sections II. Any activities that meet the "no notification" category are also exempt from notification under this permitting flexibility condition.
6.	Manufacture pulp and paper grades that do not necessitate construction or modification to the existing equipment and there are no increases in actual or potential emissions, or changes in regulatory requirements. For these types of changes all limitations and requirements of this permit must be met.

B. COMPLIANCE SCHEDULE [SC Regulation 61-62.70.5(c)(8)]

Not applicable at this time.

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C. PERMIT SHIELD [SC Regulation 61-62.70.6(f)]

A copy of the "applicability determination" submitted with the Part 70 permit application is included as Attachment C. Compliance with the terms and conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permittee shall also be shielded from any non-applicable requirements as agreed upon by the Department as specified in Attachment C with the exception of the following.

Regulations
SC Regulation 61-62.5 Standard 7 (PSD)
SC Regulation 61-62.5 Standard 7.1 (NSR)

Nothing in the permit shield or in any Part 70 permit shall alter or affect the provisions of Section 303 of the Act, Emergency Orders, of the Clean Air Act; the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance; the applicable requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act; or the ability of US EPA to obtain information from a source pursuant to Section 114 of the Clean Air Act. In addition, the permit shield shall not apply to emission units in noncompliance at the time of permit issuance, minor permit modifications (SC Regulation 61-62.70.7(e)(2)), group processing of minor permit modifications (SC Regulation 61-62.70.7(e)(3)), or operational flexibility (SC Regulation 61-62.70.7(e)(5)(i)), except as specified in SC Regulation 61-62.70.7(e)(5)(iii).

PART 7.0 NESHAP PART 63 REQUIREMENTS (MACT) [SC Regulation 61-62.63 National Emissions Standards for Hazardous Air Pollutants]; [40 CFR 63 National Emissions Standards for Hazardous Air Pollutants (NESHAP)] Section 7.A includes MACT requirements for 40 CFR 63, Subparts A, S, MM, and JJJJ. Whenever requirements of NESHAP 40 CFR Part 63 are referenced in this permit the corresponding parts of SC Regulation 61-62.63 are also applicable.

A. General Conditions

Table 7.A.1- General 40 CFR Part 63 Conditions	
Condition Number	**Conditions**
7.A.1	This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants (NESHAP), Subparts A-General Provisions [63.1-63.19] and S-National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry [§63.440-441; §63.443; §63.445-446; §63.450; §63.453-455; §63.457; §63.1-63.10; §63.12-15] as well as SC Regulation 61.1-62.63, Subparts A-General Provisions and Subpart S- National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry. Subpart A applicability is listed in Table 1 to Subpart S of Part 63. The applicable requirements of Subpart S for the bleach plants was extended from April 16, 2001 to no later than April 15, 2004 by participation in the Voluntary Advanced Technology Incentives Program. Whenever requirements of NESHAP 40 CFR Part 63 are referenced in this permit the corresponding parts of SC Regulation 61-62.63 are also applicable. Existing affected sources shall comply with the applicable provisions of Subparts A and S. Any new affected sources shall comply with the applicable requirements of these Subparts upon initial start-up unless otherwise noted.

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7.A.2	This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants (NESHAP), Subparts A-General Provisions [§63.1-15]and MM-National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills[§63.860-868] as well as SC Regulation 61-62.68, Subparts A-General Provisions and MM- National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills. Subpart A applicability is listed in Table 1 to Subpart MM of Part 63. Whenever requirements of NSPS 40 CFR Part 63 are referenced in this permit the corresponding parts of SC Regulation 61-62.63 are also applicable. Existing affected sources shall comply with the applicable provisions of Subparts A and MM. Any new affected sources shall comply with the applicable requirements of these Subparts upon initial start-up unless otherwise noted.
7.A.3	This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A-General Provisions [§63.1-63.15]and JJJJ-National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating [§63.3280-3420] as well as SC Regulation 61-62.68, Subparts A-General Provisions and JJJJ-National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating. Subpart A applicability is listed in Table 1 to Subpart JJJJ of Part 63. Whenever requirements of NSPS 40 CFR Part 63 are referenced in this permit the corresponding parts of SC Regulation 61-62.63 are also applicable. Existing affected sources shall comply with the applicable provisions of Subparts A and JJJJ. Any new affected sources shall comply with the applicable requirements of these Subparts upon initial start-up unless otherwise noted.
7.A.4	All Part 63 notifications and reports shall be sent to the South Carolina Department of Health and Environmental Control - Bureau of Air Quality (SC DHEC - BAQ) at the following address: **SC DHEC – BAQ** **Air Toxics Section** **2600 Bull Street** **Columbia, SC 29201**
7.A.5	All Part 63 notifications and the cover letters to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address: **US EPA, Region 4** **Air, Pesticides and Toxics Management Division** **61 Forsyth Street** **Atlanta, GA 30303**

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B. NESHAP PART 63 SUBPARTS A [General Provisions]; S [NESHAP From The Pulp And Paper Industry](MACT S); MM [NESHAP For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills](MACT MM); and JJJJ [NESHAP: Paper And Other Web Coating](MACT JJJJ)

Tables 7.1 and 7.2 lists the affected sources and control devices that have been identified in the facility's Notice of Compliance Status and the Title V Permit Application.

***Table 7.1*- Affected Equipment for 40 CFR 63, Subparts A, S, MM, and JJJJ**

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
Unit ID ID 02 – Kraft Process: Kraft Pulp Mill [(40 CFR 63, Subparts A and S)(§63.443)][MACT S]				
5210	Continuous Digester System: (Digester Chip Bin, Continuous Digester, Chip Feed System, Blow Tank, Steam Economizer and Reboiler)	2003, 2012	5270 2605 3705	2610S1 2610S2
5220	Turpentine Recovery System: (Gas Cooler, Condenser, Decanter)	2003	5270 2605 05	2610S1 2610S2

Table 7.1- Affected Equipment for 40 CFR 63, Subparts A, S, MM, and JJJJ				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
5230	Pulp Washing System: (Pressure Diffuser, Filtrate Tank, Brown Stock Liquor Surge Tank)	2003	5270 2605 3705	2610S1 2610S2
5240	Oxygen Delignification System: (No. 1 O_2 Reactor; Blow Tube; No. 1 Post O_2 Washer; No. 1 Post O_2 Filtrate Tank, No. 2 O_2 Reator, Blow Tube, No. 2 Post O_2 Washer. No. 2 Post O_2 Filtrate Tank, Post O_2 Surge Tank)	2003, 2012	5270 2605 3705	2610S1 2610S2
5250	Knotting and Screening System: (HD Tank, Primary Knotter, Secondary Knotter, No. 1 Primary Screen, No. 2 Primary Screen, Secondary Screen, Tertiary Screen, Quaternary Screen, Cleaner, Shive Thickner, Screen Room Filtrate Tank, Screen Room Washer)	2003	5270 2605 3705	2610S1 2610S2
Unit ID 03 – Kraft Process: Kraft Bleach Plant [(40 CFR 63, Subparts A and S)(§63.445)][MACT S]				
5300	Four Stage $D_OE_{OP}D_1D_2$ Bleaching System: (D_OTower and Washer; E_{OP} Reactor, Washer and Filtrate Tank; D_1 Tower, Washer, and Filtrate Tank, D_2 Tower, Washer and Filtrate Tank, Acid Sewer, Alkaline Sewer)	2003, 2012	5300C	5300S
Unit ID 06-Paper Machine [40 CFR 63, Subparts A and JJJJJ] [MACT JJJJ]				
2010	No. 1 Coater Dryer (Natural Gas fired, Propane, Kerosene): (Screens/Filters, Reel, and Coated Broke Pulper	1962	N/A	2000
4610	No. 2 Coater Dryer (Natural gas fired, Propane)	1986	N/A	4600
Unit ID 07 – Chemical Recovery [(40 CFR 63, Subparts A and S)(§63.443 and §63.446)] [MACT S]				
2400	No. 1 Multi-Effect Evaporator Set	1959/2006, 2012	5260 2605 3705	2610S1 2610S2
2500	No. 2 Multi-Effect Evaporator Set	1966	5260 2605 3705	2610S1 2610S2
5100	No. 3 Multi-Effect Evaporator Set	1982, 2012	5260 2605 3705	2610S1 2610S2
Unit ID 07 – Chemical Recovery [40 CFR 63, Subparts A and MM][MACT MM]				
2505	No. 2 Recovery Furnace (412,140 Ton BLS/year)	1966	2505C	2505S
2510	No. 2 Smelt Dissolving Tank (412,140 Ton BLS/year)	1966	2511C	2511S
2723	No. 2 Lime Kiln (465 T CaO/day)	1995;2003;2010	2723S2	2723
5105	No. 3 Recovery Furnace (744,600 T BLS/year)	1983;2003;2007	5105C	5105S
5110	No. 3 Smelt Dissolving Tank (744,600 T BLS/year)	1983	2511C	2511S
Unit ID 08 – Utilities [(40 CFR 63, Subparts A and S)(§63.443 and §63.446)] [MACT S]				
2605	392-405 10^6 Btu/hr [2] No. 1 Combination Boiler (natural gas, No. 6 fuel oil, bark, TDF) : (Boiler, TRS gas cooler, TRS gas condenser, TRS mist eliminator, TRS gas reheater)	1959	2605C 2610C1	2610S2

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Table 7.1- Affected Equipment for 40 CFR 63, Subparts A, S, MM, and JJJJ				
Equipment ID	**Description**	**Installation Date/ Modification Date**	**Control Device ID**	**Stack ID**
3705	420-720 10^6 Btu/hr [3] No. 2 Combination Boiler (natural gas, No. 6 fuel oil, bark, TDF) (Boiler, TRS gas cooler, TRS gas condenser, TRS mist eliminator, TRS gas reheater)	1968	3705C 2610C2	2610S1
5260	LVHC Collection System	2001	2605/3705	2610S1/2 Emergency Relief Valves: 24FL331 24FL336 24FL341 51FL262 26FL371
5270	HVLC Collection System	2003	2605/3705	2610S1/2 Emergency Relief Valves: 52HS937 42FL967 52FL967
5261/ 5271	Flame Arrestors, Mist Eliminators, Condensate Collection Tanks	2001/2003	None	5261/ 5271
Unit ID 09 – Waste Treatment [(40 CFR 63, Subparts A and S)§(63.446)][MACT S]				
9800	180,000 gallon Condensate Collection Tank	1999	2605/3705	2610S1 2610S2
9801	800 gallon/minute Condensate Steam Stripper	2000	2605/3705	2610S1 2610S2

Table 7.2-Control Device(s) For Affected 40 CFR 63, Subparts A, S, MM, and JJJJ Sources			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
40 CFR 63, Subparts A and S (§63.443 and §63.446)[MACT S]			
5260	Low Volume Concentration (LVHC) Collection System	2001	HAP
5270	High Volume Concentration (HVLC) Collection System	2003	HAP
9820	Stripper Off Gasses (SOG) Collection System	2001	HAP
2605	B & W No. 1 Combination Boiler	1959	HAP
3705	B & W No. 2 Combination Boiler	1968	HAP
9801	800 gallon/minute Condensate Steam Stripper	2000	Condensate HAP
40 CFR 63, Subpart A and S (§63.445) [MACT S]			
5300C	Bleaching System Scrubber	2003	Cl_2; Chlorinated HAP
40 CFR 63, Subparts and MM [MACT MM]			
2505C	No. 2 Recovery Furnace ESP	1990	HAP Metals
5105C	No. 3 Recovery Furnace ESP	1983	HAP Metals
5211C	Smelt Tanks Venturi Caustic Scrubber (weak wash and caustic)	1966	HAP Metals
2723C	No. 2 Lime Kiln ESP	1995	HAP Metals
40 CFR 63, Subparts A and JJJJ [MACT JJJJ]			

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***Table 7.2*-Control Device(s) For Affected 40 CFR 63, Subparts A, S, MM, and JJJJ Sources**			
Control Device ID	**Description**	**Installation Date/ Modification Date**	**Pollutant Controlled**
None	None	None	None

Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
MACT.1	ID 02: 5210 5220 5230 5240 5250 ID 07: 2400 2500 5100 ID 08: 2605 3705	•HAP (Pulping System Vents Collection and Treatment) •*MACT S*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220), •Pulp Washing System (02:5230), •Oxygen Delignification System (02:5240), •Knotting and Screening System (02:5250); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 •Multi-Effect Evaporator Set (07:2500), •No. 3 Multi-Effect Evaporator Set (07:5100); •No. 1 Combination Boiler(08:2605), •No. 2 Combination Boiler (08:3705) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 40 CFR 63 Subparts A: Part 63, Table 1; §§63.1-62.15 ; S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}: §§63.440-63.441; §63.443; §63.450; §§63.453-63.455; §§63.457-63.458; and SC Reg. 61-62.63, Subparts A and BB (MACT S)]* **(A): Pulping System Vent Treatment-**The gases containing hazardous air pollutants (HAP) from applicable affected pulping system vent sources shall be enclosed and vented into a closed vent system and routed to the *No. 1 Combination Boiler and/or No. 2 Combination Boiler* for reduction of HAP. Affected high volume low concentration (HVLC) sources for the Continuous Digester [Continuous Digester chip bin and blow tank] are collected and routed to the boilers in 5270. Affected low volume high concentration (LVHC) sources for the No. 1 and No. 3 Evaporator Set are collected and routed to the boilers in 5260. The gases must be introduced with the primary fuel, into the flame zone, or with the combustion air. The enclosures and closed-vent system shall meet the requirements specified in §63.450. *[40 CFR 63.443; §63.443(a); §63.443(a)(1)(i); §63.443(a)(1)(iii); §63.443(a)(1)(v); §63.443(a)(2); §63.443(c); §63.443(d)(4)]* The specific low volume high concentration (LVHC) and high volume low concentration (HVLC) sources in affected systems that require collection and control are listed in Table E-2 of ATTACHMENT E, which is considered a Federally enforceable part of this condition and permit. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Bypass Valves-**The potential bypass valve (emergency vent valves) that by design could divert vent streams containing HAP to the atmosphere without meeting the emission limitations are listed in Table MACT.1.T1 below.

Table MACT.1.T1 Closed Vent System Emergency Vent Valves	
Source	**Vent Valve Number**
LVHC Collection System	
No. 1 Multi-Effect Evaporator Set; Turpentine Recovery Decanter, Turpentine Recovery Standpipe	24FL331
No. 2 Multi-Effect Evaporator Set	24FL336

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**

LVHC Collection System	
No. 3 Multi-Effect Evaporator Set	24FL341
Turpentine Recovery Feed Tank	51FL262
Entire LVHC System (Vented at Power Boilers)	26FL371
HVLC Collection System	
Continuous Digester Chip Bin	52HS937
Oxygen Delignification System, Knotting and Screening, Diffusion Washers, Blow Tank, Brown Stock Liquor Storage Tank, Bleach Feed Tank, Spill Collection Tank (Vented at Power Boilers)	42FL967
Entire HVLC System (Vented at Power Boilers)	52FL967

Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations for the relevant emission standard shall comply with either of the following requirements:

- On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to the manufacturer's specifications a flow indicator that is capable of taking periodic readings at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or
- For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.

Each manual bypass valve shall be inspected at least once every calendar month to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line. [§63.453(k)]

The owner or operator shall set the flow indicator on each bypass line to provide a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. [§63.454)(e)]

(C): Excess Emissions and Reporting-Periods of excess emissions (periods when affected source vent streams containing HAP are vented to the atmosphere without meeting the HAP emission reduction limitations) shall not be a violation provided the time of excess emissions (excluding periods of startup, shutdown, or malfunction) divided by the total process operating time in a semiannual reporting period does not exceed one per cent (1%) for control devices used to reduce low volume high concentration (LVHC) HAP gas steams and four percent (4 %) for control devices used to reduce both LVHC and high volume low concentration (HVLC) HAP gas steams. [§63.443(e)]

The owner or operator shall submit semiannual excess emissions and continuous monitoring system performance reports and/or summary report to the Department. If the total duration of excess emissions for the reporting period is less than one percent (1 %) of the total operating time for the reporting period, and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report shall be submitted with report content in accordance with 63.10(e)(vi).

If the total duration of excess emissions for the reporting period is 1 % or greater of the

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			total operating time for the reporting period, or the total CMS downtime for the reporting period is 5 % or greater of the total operating time for the reporting period, both the summary report and the, excess emissions and the CMS system performance report shall be submitted with the report content in accordance with §63.10(e)(3)(v) and 63.10(e)(3(vi). When no excess emissions or exceedances of a parameter have occurred, or a CMS has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report. The required reports shall contain the name, title, and signature of the responsible official. [§63.454(a); §63.455(a); §63.8(c)(7); §63.8(c)(8); §§63.10(c)(5)-63.10(c)(13); §63.10(e)] **(D): Record Keeping:** Records of applicable information for inspections and monitoring specified in §63.545(b) and 63.10(c) shall be kept on site. Specific operational and CMS record keeping for MACT S sources includes, but is not limited, to the requirements listed in Table F-1 of ATTACHMENT F, which is considered a Federally enforceable part of this condition and permit. Additional records may be required for source testing and performance evaluations, CMS evaluations, applicability determinations, etc.
MACT.2	ID 02: 5210 5220 ID 07: 2400 2500 5100 ID 09: 9800 9801	•HAP (Pulp Condensate Collection and Treatment) •*MACT S*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 Multi-Effect Evaporator Set (07:2500), •No. 3 Multi-Effect Evaporator Set (07:5100); •No. 1 Combination Boiler(08:2605), •No. 2 Combination Boiler (08:3705); •Condensate Collection Tank (09:9800), •Condensate Stripper System (09:9801) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 63 Subparts A {General Provisions}: Part 63, Table 1; §§63.1-63.15];S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}: §§63.440-63.441; §63.443; §63.446; §63.450; §§63.453-63.455; §§63.457-63.458; and SC Reg. 61-62.63, Subparts A and S (MACT S)]* **Condensate Collection and Treatment**-The owner or operator shall collect in a closed system pulping process condensates from either each affected digester system, turpentine recovery system, evaporator stage where weak liquor is introduced, HVLC system, and/or LVHC system such that at least 11.1 pounds of total hazardous air pollutants (HAP) per oven dried ton of pulp is collected. For purposes of complying with the Kraft pulping condensate requirements methanol shall be used as a surrogate for total HAP concentration. The specific affected condensate sources collected are listed in Table E-3, ATTACHMENT E, which is considered a Federally enforceable part of this condition and permit. *[40 CFR 63.440; §63.441; §63.446(a); §63.446(b)]* Pulping condensates collected from applicable affected sources shall be conveyed in a closed system that meets the requirements of 63.446(d) and treated in the *Condensate Steam Stripper* to remove 10.2 pounds or more of total HAP per ton of oven dried pulp (lb/ton ODP). The HAP removed during treatment of condensates as well as HAP collected from the fixed roof and all openings of a condensate collection tank(s) used in a closed condensate collection system shall be routed in a closed-system that the meets the requirements of §63.450 to the *No. 1 Combination Boiler* and/or *No. 2 Combination Boilers* HAP reduction. *[§63.446(c); §63.446(c)(3); §63.446(d); §63.446(e)]* **Testing:** Initial (completed successfully) and as required only (routine testing not

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**

required)

Monitoring/Record Keeping/Reporting/Other:
(A): Condensate Collection and Treatment Monitoring-The shall install, operate, and maintain a continuous monitoring system (CMS) to measure the condensate feed rate, the steam feed rate, and the condensate feed temperature to the stripping column as well as the amount of condensate collected and treated each day. Effect steam ratio and pulp production will be determined and used to calculate HAP collection land treatment. See Table MACT2.T.1 below for frequency, averaging time, and requirements. Periods when the stripping column is not operational shall not be included in the daily averages.

Table MACT.2.T1 Monitoring Method for Condensate Collection/Treatment	
HAP Monitoring Method/Requirements	**Sampling Frequency/Averaging Time**
Monitoring: (MACT S Condensate) • Condensate feed rate CPMS • Steam feed rate CPMS • Condensate feed temperature CPMS	**Frequency**: Minimum of once every 15 minutes
Calculated parameters: Effective steam ratio Pulp Production Daily mass HAP collected Daily Mass HAP removed	**Averaging**: • Daily averages • 15-day rolling averages
Monitor requirements: 40 CFR 63.453(c); §63.8	

[§63.453(a); §63.453(g)]

- Excess Emissions-Collection Requirement: Each day during the semiannual reporting period when the fifteen (15) day rolling average of the mass of HAP collected is less than 11.1 lb HAP/ODP is defined as excess emissions. The owner or operator shall calculate and record the daily mass of HAP collected using the daily average condensate feed rate, the daily average pulp production, and the average HAP mass content of the condensate established or reestablished during the most recent fifteen (15) day performance test conducted in accordance with §63.453(n) and approved by Engineering Services, Bureau of Air Quality. A fifteen (15) day rolling average of the daily HAP mass collected shall be calculated and recorded to determine compliance with the collection requirement of 11.1 lb HAP/ODP.

- Excess Emissions-Treatment Requirement: Each day during the semiannual reporting period when the fifteen (15) day rolling average of the mass of HAP removed is less than 10.2 lb HAP/ODP is defined as excess emissions. The owner or operator shall calculated and record the daily mass of HAP removed using the daily average mass of HAP collected, the daily average pulp production, and the daily average effective steam ratio to determine HAP removal. The daily average effective steam ratio shall be determined by calculating the daily average effective steam; (total stripping column steam – steam to preheat condensate)/condensate feed rate. The daily effective steam ratio will be applied to the effective steam efficiency curve established or reestablished using characterization studies and performance testing conducted in accordance with §63.453(n) and approved by Engineering Services, Bureau of Air Quality. A fifteen (15) day rolling average of the daily HAP mass removed shall be calculated and recorded to determine compliance with the collection requirement of 10.2 lb HAP/ODP.

The average mass HAP (methanol) content of the collected condensate used above to

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			calculate the daily mass of HAP collected and treated will be checked a minimum of once annually using actual methanol test results for collected condensate. The annual check shall consist of sampling the collected condensate a minimum of three consecutive operating days. If the average mass HAP content of the annual check falls below the minimum value established or reestablished during all previous fifteen (15) day performance tests, a new fifteen (15) day performance test conducted in accordance with §63.453(n) and approved by Engineering Services, Bureau of Air Quality, shall be performed to determine compliance with the collection and treatment requirements. Results of the performance test will be used to reestablish emissions factors as required. Each owner or operator shall operate the control device in a manner consistent with the minimum or maximum (as appropriate) operating parameter values. Operation of the control device below established maximum and/or minimum operating parameter values shall constitute a violation of the applicable emission standard of this subpart and be reported as a period of excess emissions. Periods of excess emissions shall not be a violation of condensate treatment requirements provided that the time of excess emissions (including periods of startup, shutdown, or malfunction) divided by the total process operating time in a semiannual reporting period does not exceed ten (10) percent. [§63.446(g)] The owner or operator shall submit semiannual excess emissions and continuous monitoring system performance reports and/or summary report to the Department. The reports shall include excess emissions for collection and treatment requirements. If the total duration of excess emissions (treatment) for the reporting period is less than one percent (1 %) of the total operating time for the reporting period, and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report shall be submitted with report content in accordance with 63.10(e)(vi). If the total duration of excess emissions (treatment) for the reporting period is 1 % or greater of the total operating time for the reporting period, or the total CMS downtime for the reporting period is 5 % or greater of the total operating time for the reporting period, both the summary report and the, excess emissions and the CMS system performance report shall be submitted with the report content in accordance with §63.10(e)(3)(v) and 63.10(e)(3(vi). When no excess emissions or exceedances of a parameter have occurred, or a CMS has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report. The required reports shall contain the name, title, and signature of the responsible official. *[§63.454(a); §63.455(a); §63.8(c)(7); §63.8(c)(8); §§63.10(c)(5)-63.10(c)(13); §63.10(e)]* **(B): Record Keeping:** Records, including the applicable requirements of §63.454(a), 63.454(b), as well as §63.10 as well as any 15-day performance test data and steam efficiency data used to develop collection factors or steam efficiency curves being used, the monthly condensate and steam efficiency curve checks, and supporting data, shall be maintained on-site. Specific operational and CMS record keeping for MACT S sources includes, but is not limited, to the requirements listed in Table F-1 of ATTACHMENT F, which is considered a Federally enforceable part of this condition and permit. Additional records may be required for source testing and performance evaluations, CMS evaluations, applicability determinations, etc.
MACT.3	5300, 5300C	•HAP (Bleach Vents Chlorine as	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: Kraft Process-Kraft Bleach Plant (5300), Bleach Plant Scrubber (5300C) The affected source(s) are subject to all applicable limits and requirements of the

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		the surrogate for HAP) •*MACT S*	following regulation(s) (reg.): • *[NESHAP 40 CFR Subparts A {General Provisions: Part 63, Table 1;§§63.1-63.15]; S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}: §§63.440-63.441; §63.443; §63.445; §63.450; §§63.453-63.455; §§63.457-63.458; and SC Reg. 61-62.63, Subparts A and S (MACT S)]* • *[NESHAP 40 CFR 63.453(m) and §63.8(f) EPA and DHEC approved alternative scrubber monitoring]* **Bleaching System Vent Treatment-**The equipment where chlorinated compounds are introduced for this source shall be enclosed and vented into a closed-vent system and routed to a scrubber that reduces total chlorinated hazardous air pollutant (HAP) emissions by at least ninety-nine percent by weight (99 % wt.) or reduce the scrubber outlet concentration to at least ten parts per million by volume (10 ppmv). The enclosures and closed-vent system shall meet the requirements specified in §63.450. In order to comply with chloroform air emission reduction requirements, the owner or operator shall comply with the applicable effluent limitation guidelines and standards specified in 40 CFR 430.24(a)(1) and §430.24(e). *[NESHAP 40 CFR 63.440; 63.441; 63.445(a); 63.445(a)(2); 63.445(b); 63.445(c); 63.445(c)(1); 63.445(c)(2); 63.445(d)]* The chlorinated HAP from affected sources are routed to the Bleach Plant Scrubber. The specific affected sources that must be collected and routed to the scrubber are listed in Table E-4 of ATTACHMEMT E, which is considered a Federally enforceable part of this condition and permit. **Testing:** Initial (completed successfully) and as required only (routine testing not required) **Monitoring/Record Keeping/Reporting/Other:** **(A): Bleach Plant Scrubber Excess Emissions and Reporting-**The owner or operator shall install, calibrate, operate, and maintain according to manufacturer's specifications a continuous parametric monitoring system (CPMS) to measure scrubber liquid influent (re-circulation) flow, and scrubber effluent pH. The CPMS shall include a continuous recorder. Under the authority of §63.453(m) and §63.8(f), the owner or operator has been granted approval to monitor scrubber fan operational status (on/off) as an alternative to scrubber gas inlet flow. The sampling frequencies and averaging times established according to §63.453(n) are shown in Table MACT.3.T1 below. **Table MACT.3.T1 Parameter Monitoring Method for Scrubber 5300C** **HAP Monitoring Method/Requirements** | **Sampling Frequency/Averaging Time** **Monitoring:** (MACT S) • Liquid recirculation (influent) flow CPMS • Scrubber pH (effluent) CPMS • Fan operation (on/off) CPMS | **Frequency**: Minimum of once every 15 minutes **Monitor requirements**: 40 CFR 63.8; §63.453(c) | **Averaging**: 3-hour averages Range values for each operating parameter to show continuing compliance with the MACT S HAP limitations have been established in accordance with §63.453(n) and these monitoring parameters may be re-established using this procedure (See ATTACHMENT H. Table H-1). These operational ranges for the monitored parameters shall be reviewed and re-established, if necessary, to provide a reasonable assurance of compliance in accordance with MACT S requirements and Generic

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			Condition GC7. Unless otherwise stated in a condition, these operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. If ranges need to be re-established, these ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Manager of Engineering Services, Bureau of Air Quality for approval within 180 days of start up/modification of the source in accordance with Generic Condition GC7 . If the ranges do not change due to this addition/modification, an analysis of the review shall be stored on site. The operating ranges may be updated using this procedure, following Bureau approval. Deviations from the established operating parameter values shall be reported as periods of excess emissions (Any three (3)-hour value outside the established ranges) for the MACT S HAP limitations. Each owner or operator shall operate the control device in a manner consistent with the minimum or maximum (as appropriate) operating parameter values. Operation of the control device below established maximum and/or minimum operating parameter values shall constitute a violation of the applicable emission standard of this subpart and be reported as a period of excess emissions. An excess emissions allowance is not allowed by §63.445. The owner or operator shall submit semiannual excess emissions and continuous monitoring system performance reports and/or summary reports to the Department. If the total duration of excess emissions for the reporting period is less than one percent (1 %) of the total operating time for the reporting period, and CMS downtime for the reporting period is less than five percent (5 %) of the total operating time for the reporting period, only the summary report shall be submitted with report content in accordance with 63.10(e)(vi). If the total duration of excess emissions for the reporting period is 1 % or greater of the total operating time for the reporting period, or the total CMS downtime for the reporting period is 5 % or greater of the total operating time for the reporting period, both the summary report, excess emissions report, and the CMS system performance report shall be submitted with the report content in accordance with §63.10(e)(3)(v). When no excess emissions or exceedances of a parameter have occurred, or a CMS has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report. *[40 CFR Part 63, Table 1; §63.455(a); §63.10(e)]* **(B): Record Keeping-**The affected sources are subject to all applicable record keeping requirements of MACT S. Records of applicable information for inspections and monitoring specified in §63.545(b) and 63.10(c) shall be kept on site. Specific operational and CMS record keeping for MACT S sources includes, but is not limited, to the requirements listed in Table F-1 of ATTACHMENT F, which is considered a Federally enforceable part of this condition and permit. Additional records may be required for source testing and performance evaluations, CMS evaluations, applicability determinations, etc.).
MACT.4	ID 02: 5210 5220 5230 5240 5250 ID 03: 5300	•(Pulp/Bleach/ Condensate Closed-Collection System Requirements) •*MACT S* •*MACT RR*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220), •Pulp Washing System (02:5230), •Oxygen Delignification System (02:5240), •Knotting and Screening System (02:5250); •Kraft Process-Kraft Bleach Plant (5300); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 Multi-Effect Evaporator Set (07:2500), •No. 3 Multi-Effect Evaporator Set (07:5100); •No. 1 Combination Boiler(08:2605), •No. 2 Combination Boiler (08:3705); •No. 1 Combination Boiler(08:2605), •No. 2 Combination Boiler (08:3705); •Condensate Collection Tank

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Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
	ID 07: 2400 2500 5100 ID 08: 2605 3705 ID 09: 9800 9801		(09:9800), •Condensate Stripper System (09:9801)] The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 40 CFR 63.450 {MACT S-Standards For Enclosures And Closed-Vent Systems}];* • *[NESHAP 40 CFR 63.453 {MACT S-Monitoring Requirements];* • *[NESPAP 40 CFR 63.446 {MACT S-Standards For Kraft Pulping Process Condensates}];* • *[NESHAP 40 CFR 63, Subpart RR {National Emission Standards For Individual Drain Systems} (MACT RR)]* • *SC Reg. 61-62.63, Subparts A and S (MACT S)]* **(A): Enclosures/Closed-Vent Systems: Affected Sources: [ID 02: 5210, 5220, 5230, 5240, 5250; ID 03: 5300; ID 07: 2400, 2500, 5100, ID 08: 2605, 3705; ID 09:9800, 9801]-** Enclosures and closed-vent systems for affected sources shall be conveyed in a closed collection system that meets the requirements of 40 CFR 63.450. • Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified in §63.457(e). • Each component of the closed-vent system that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million by volume above background, as measured by the procedures specified in §63.457(d). [40 CFR 63.445(b)] **(B): Closed Condensate System Requirements: Affected Sources: [ID 02: 5210, 5220; ID 07: 2400, 2500, 5100; ID 09: 9800, 9801] -**The pulping process condensates from the applicable affected equipment systems shall be conveyed in a closed collection system that is designed and operated to meet the requirements of 40 CFR 63. 446(d), which included specified condensate drain requirements of 40 CFR 63, Subpart [40 CFR 63.446(d); §63.960; §60.961; §60.962; 40 CFR Part 60, Appendix A] • The fixed roof and all openings (e.g. access hatches, sampling ports, gauge wells) of any collection tanks used in required condensate collection systems shall be designed and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million (ppm) above background. • Each affected condensate collection tank opening shall be maintained in a closed, sealed position at all times a tank contains condensates or any HAP removed from a pulping process condensate stream except when it is necessary to use the opening for sampling, removal, or for equipment inspection, maintenance, or repair. [40 CFR 63.446(d); §63.960; §60.961; §60.962; 40 CFR Part 60, Appendix A] **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): Enclosure and closed-vent system Inspection: Affected Sources: [ID 02: 5210, 5220, 5230, 5240, 5250; ID 03: 5300; ID 07: 2400, 2500, 5100, ID 08: 2605, 3705; ID 09:9800, 9801] -**For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator shall prepare and maintain a site-specific inspection plan including a drawing or schematic of the components of applicable affected equipment. [§63.454(b)]

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			• Enclosures and closed-vent systems for affected sources shall meet the inspection requirements in §63.453(k). • Closure mechanisms for enclosure openings and closed-vent systems shall be visually inspected at least once every thirty (30)days • Each closed-vent system shall be visually inspected at least every 30 days . The visual inspection shall include inspection of ductwork, piping, enclosures, and connections to covers for visible evidence of defects • Demonstrate initially and annually there are no visible leaks (≤ 500 ppm) in positive pressure closed-vent systems using the procedures in 40 CFR 63.457(d) • Negative pressure conditions for each enclosure opening shall be demonstrated initially and annually thereafter using the procedures in §63.457(e) If an inspection identifies visible defects in an enclosure or closed-vent system or if an instrument reading of 500 parts per million or greater above background is measured, then the following corrective actions shall be taken: • A first effort to repair or correct the closed-vent system shall be made as soon as practicable but no later than 5 calendar days after the problem is identified. • The repair or corrective action shall be completed no later than 15 calendar days after the problem is identified. Delay of repair or corrective action is allowed if the repair or corrective action is technically infeasible without a process unit shutdown or if the owner or operator determines that the emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed by the end of the next process unit shutdown. **(B): Closed Condensate System Inspection: Affected Sources: [ID 02: 5210, 5220; ID 07: 2400, 2500, 5100; ID 09: 9800, 9801]-**Each condensate collection system for the affected sources shall meet the inspection requirements in §63.453(l) and §63.964, except owners/operators shall comply with the recordkeeping requirements of §63.454 instead of the requirements specified in §63.964(a)(1)(vi) and §63.964(b)(3). • The condensate collection system shall be visually inspected once every thirty (30) days • Each condensate tank used in the closed collection system shall be operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million above background measured initially and annually by the procedures specified in §63.457(d). • The water seals and closure devices for the individual drain system shall be inspected initially and, thereafter, at least once every year. If an inspection identifies visible defects in the closed condensate collection system or if an instrument reading of 500 parts per million or greater above background is measured, then the following corrective actions shall be taken. • The owner or operator shall make first efforts at repair of the defect no later than 5 calendar days after detection and repair shall be completed as soon as possible but no later than 15 calendar days after detection except as provided below: • Repair of a defect may be delayed beyond 15 calendar days if the owner or operator determines that repair of the defect requires emptying or temporary removal from service of the individual drain system and no alternative capacity is available at the facility site to accept the regulated-material normally managed in the individual drain system. In this case, the owner or operator shall repair the defect the next time the process or unit that is generating the regulated-material managed in the individual drain system stops operation. Repair of the defect shall be completed before the process or unit resumes operation.

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MACT.5	ID 07: 2505 2510 2723 5105 5110	•HAP (Metals) •*MACT MM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 2 Recovery Furnace (07:2505), •No. 2 Smelt Dissolving Tank (07:2510), •No. 2 Lime Kiln (07:2723), •No. 3 Recovery Furnace (07: 5105) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.):\ ▪ [*NESHAP 40 CFR 63, Subparts A {General Provisions}: Part 63, Table 1; §§63.1-63.15; MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills} (MACT MM): §§63.860-60.868;and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* The affected sources are subject to MACT MM HAP metal [surrogate Particulate Matter (PM)] emission limitations as specified below. These emission units are also subject other PM requirements, in some cases more restrictive, which must also be met. *[§63.862(a)(1); §63.862(a)(1)(i); §63.862(a)(1)(i)(A), §63.862(a)(1)(i)(B); §63.862(a)(1)(i)(C)]*

Table MACT.5.T1 MACT MM PM Limitations

Equipment	PM Limit	PM Units
2505	≤ 0.044	gr/dscf@8%O_2
2510	≤ 0.20	lb/T BLS fired
2723	≤ 0.064	gr/dscf@10%O_2
5105	≤ 0.044	gr/dscf@8%O_2
5110	≤ 0.20	lb/T BLS F

gr/dscf@8%O_2 = grain per dry standard cubic foot (gr/dscf)) corrected to 8 percent oxygen
gr/dscf@10%O_2 = grain per dry standard cubic foot (gr/dscf)) corrected to 10 percent oxygen
lb/T BLS F = lb/ton black liquor solids fired
≤ = less than or equal to

Testing: Compliance with the PM emission limits shall be demonstrated through source testing in accordance with SC Regulation 61-62.1, Section IV - Source Tests and Federal requirements, when applicable. The recovery furnaces and lime kilns shall be tested every two years; the smelt dissolving tanks shall be tested every four years. EPA Method 5 will be used to show compliance. Alternative test methods may be allowed, provided Department approval is granted during the test plan submittal and approval process described in SC Regulation 61-62.1, Section IV - Source Tests and 61-62.70.7 - Permit Issuance, Renewal, Reopenings and Revisions, as appropriate. PM compliance shall be determined by averaging the test run emission rates over the test run durations as specified in the required test protocol. *[SC Reg. 61-62.5, Std. 4, Section XII(A)]*

Monitoring/Record Keeping/Reporting/Other:
(A1): Continuous Opacity Monitoring for PM(HAP): Affected Sources: No. 2 Recover Furnace ESP 2505C, No. 3 Recovery Furnace ESP 5105C, and No. 2 Lime Kiln ESP 2723- The owner or operator of a Kraft recovery furnace or lime kiln equipped with an electrostatic precipitator (ESP) must install, calibrate, maintain, and operate a continuous opacity monitoring system(s) (COMS) to monitor PM. See Table MACT.5.T5 for COMS sampling frequency, averaging times, and CPMS requirements.

Table MACT.5.T2 Recovery and Lime Kiln MACT MM Parameter Monitoring for ESP 2505C, 2723C and 5105C

HAP Monitoring Method/Requirements	Sampling Frequency/Averaging Time
Monitoring: (MACT MM)	**Frequency**: Minimum of one cycle of

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• COMS (Opacity)	sampling and analyzing every successive 10-second period
Monitor requirements: 40 CFR 63.6h; §63.8	**Averaging Time**: [One Cycle of data averaged each successive 6-minute period-data reduction as specified in 63.8(g)(2)]

[§63.864(d); §63.864(d)(3); §63.864(d)(4)]

(A2): Excess Emissions: Affected Sources: No. 2 and No. 3 Recovery Furnaces [2505 and 5105], and No. 2 Lime Kiln [2505]-Corrective action must be implemented when the average of ten (10) consecutive six-minute (6-min.) averages result in measurement greater than twenty percent (20 %) opacity (excess emissions). Furthermore, a violation of the particulate matter (PM) standard occurs, when opacity is greater than thirty five percent (35 %) for six percent (6 %) or more of the operating time within any quarterly period for the recovery furnaces or when opacity is greater than twenty percent (20 %) for six percent (6 %) or more of the operating time within any quarterly period for the lime kiln. For purposes of determining the number of monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period. [§63.864(k)(1); §63.864(k)(1)(i); §63.864(k)(2); 63.864(k)(2)(i); §63.864(k)(2)(ii); §63.864(k)(3)]

The owner or operator must report quarterly if measured parameters meet any of the conditions specified in §63.864(k)(1) or §63.864(k)(2). This report must contain the information specified in §63.10(c) as well as the number and duration of occurrences when the source met or exceeded the conditions in §63.864(k)(1), and the number and duration of occurrences when the source met or exceeded the conditions in §63.864(k)(2). When no exceedances of parameters have occurred, the owner or operator must submit a semiannual report stating that no excess emissions occurred during the reporting periods [§63.867(c)]

(B1): Continuous Scrubber Parameter Monitoring for HAP(PM): Affected Sources: No. 2 and 3 Smelt Dissolving Tank Scrubber 5211C- The owner or operator of a smelt dissolving tank equipped with an scrubber must install, calibrate, maintain, and operate a continuous parameter monitoring systems (CPMS) that can be used to determine and record the pressure drop across the wet scrubber and the scrubbing liquid flow rate to show compliance with MACT MM PM requirements. The sampling frequencies and averaging times as well as CPMS requirements are shown in Table MACT.3.T1 below.

Table MACT.5.T3 Smelt Tank Parameter MACT MM Monitoring for Scrubber 2511C	
PM Monitoring Method/Requirements	**Sampling Frequency/Averaging Time**
Monitoring: (MACT MM) • Scrubber gas stream pressure drop CPMS • Scrubbing liquid flow CPMS	**Frequency:** Minimum of one cycle of sampling and analyzing every successive 15-minute period

Range values for each operating parameter to show continuing compliance with the MACT MM HAP limitations have been established in accordance with §63.864(j) and these monitoring parameters may be re-established using this procedure (See ATTACHMENT H. Table H-1). Deviations from the established operating parameter values shall be reported as periods of excess emissions (Any three (3)-hour value outside the established ranges) for the MACT MM HAP limitations.

(B2): Excess Emissions: Affected Sources: No. 2 and No. 3 Smelt Dissolving Tanks 2510 and 5110-The owners or operator is required to implement corrective action when

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			any three-hour (3-hour) average parameter value is outside the established range (excess emissions). All affected sources or process units are in violation of the standards when six (6) or more 3-hour average parameter values within any six-month (6-month) reporting period are outside the established range. For purposes of determining the number of monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period. [§63.864(k)(1); §63.864(k)(1)(ii); §63.864(k)(2); §63.864(k)(2)(iii); §63.864(k)(3)] **(C): Excess Emission Reporting**-The owner or operator must report quarterly if measured parameters meet any of the conditions specified in §63.864(k)(1) or §63.864(k)(2). This report must contain the information specified in §63.10(e) as well as the number and duration of occurrences when the source met or exceeded the conditions in §63.864(k)(1), and the number and duration of occurrences when the source met or exceeded the conditions in §63.864(k)(2). When no exceedances of parameters have occurred, the owner or operator must submit a semiannual report stating that no excess emissions occurred during the reporting periods. [§63.867(c)] **(D): Record Keeping-**Records of applicable information for inspections and monitoring specified in §63.545(b) and 63.10(c) shall be kept on site. Specific operational and CMS record keeping for MACT S sources includes, but is not limited, to the requirements listed in Table F-1 of ATTACHMENT F, which is considered a Federally enforceable part of this condition and permit. Additional records may be required for source testing and performance evaluations, CMS evaluations, applicability determinations, etc.
MACT.6	2010 4610	•HAP (Coating) •*MACT JJJJ*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •No. 1 Paper Machine Coater Dryer (06:2010), •No. 2 Paper Machine Coater/Dryer (06:4610) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 40 CFR 63, Subparts A {General Provisions}:Part 63, Table I; §§63.1-63.15]; JJJJ {National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating}; and SC Reg. 61-62.63, Subparts A and JJJJ}: §63.3280-63.3340; §63.3370-63.3420; and SC Reg. 61-62.63, Subparts A and JJJJ (MACT JJJJ)]* *]* The affected sources are subject to all applicable requirements of MACT JJJJ. The organic hazardous air pollutants (HAP) emissions from coatings applied at the web coaters for affected sources shall be less than or equal to four (4) percent of the mass of coating applied each month. The affected sources include the coaters and any associated coater curing and/or drying equipment. **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** The owner/operator shall track the total monthly hazardous air pollutants (HAP) for the coatings applied at the affected source using the procedures for "as applied coating materials" in §63.3370. The monthly average hazardous air pollutants (HAP) for all of the coating materials used at the affected source must be less than or equal to 0.04 kg HAP per kg of coating material applied. The monthly average HAP for all coating material applied shall be determined using Equation 4 as detailed in §63.3370(c)(3). The owner or operator must maintain the records or the material usage, organic HAP

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Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			usage, volatile matter usage, and coating solids usage and compliance demonstrations of the monthly average HAP for all coating materials used determined in accordance with the procedures in §63.3370(c). Semiannual reports shall be submitted to the Department. Each semiannual report must §include a statement by a responsible official with that official's name, title, and signature certifying the accuracy of the content of the report, and the date of report as well as the beginning and ending dates of the reporting period. For each deviation from an emission limitation the semiannual report must contain as a minimum the following information: ▪ The total operating time of each affected source during the reporting period. ▪ Information on the number, duration, and cause of deviations (including unknown cause), if applicable, and the corrective action taken. When no deviations have occurred, the owner or operator must submit a semiannual report stating that no deviations occurred during the reporting period.
MACT.7	ID 02: 5210 5220 5230 5240 5250 ID 03: 5300 ID 07: 2400 2500 2505 2510 2723 5100 5105 5110 ID 09: 9800 9801; 5260, 5260C, 2605, 3705	•CMS •*MACT S* •*MACT MM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220), •Pulp Washing System (02:5230), •Oxygen Delignification System (02:5240), •Knotting and Screening System (02:5250); •Kraft Process-Kraft Bleach Plant (5300); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 Multi-Effect Evaporator Set (07:2500), •No. 3 Multi-Effect Evaporator Set (07:5100); No. 2 Recovery Furnace (07:2505), •No. 2 Smelt Dissolving Tank (07:2510), •No. 2 Lime Kiln (07:2723), •No. 3 Recovery Furnace (07:5105), •No. 3 Smelt Dissolving Tank (07:5110); •No. 1 Combination Boiler (08:2605), •No. 2 Combination Boiler (08:3705); •Condensate Collection Tank (09:9800), •Condensate Stripper System (09:9801)] The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): ▪ *[NESHAP 40 CFR 63, Subparts A {General Provisions}; S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}; and SC Reg. 61-62.63, Subparts A and S (MACT S)* ▪ *[NESHAP 40 CFR 63 Subparts A {General Provisions};MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* *[40 CFR 63.EPA and DHEC approved alternative monitoring for scrubbers]* The affected sources are subject to all applicable continuous monitoring system (CMS) requirements of MACT S and MACT MM. CMS includes, but is not limited to, continuous emission monitoring systems (CEMS), continuous opacity monitoring systems (COMS), and continuous parameter monitoring systems (CPMS), or other manual or automatic monitoring that is used for demonstrating compliance with an applicable regulation on a continuous basis. [§63.2] **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Applicable CMS required by 40 CFR 63, Subpart S (MACT S) and Subpart MM (MACT MM) shall be installed calibrated, certified, operated, and maintained according to the manufacturer's specifications. The required CMS are summarized in the table below: [§63.453(a), §63.453(c), §63.453(g), §63.453(i) §63.864(d), §63.864(d)(3), §63.864(d)(4), §63.864(e), §63.864(e)(10); §63.6h,

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Conditions For 40 CFR Part 63 (MACT) Affected Sources

Condition No.	Equip ID	Regulated Pollutant/ *Standard*	Conditions
			§63.8]

Table MACT.6.T1 Required Part 63 Monitors

ID	Equip. No.	CMS Type Pollutant Monitored: (Parameter(s))	Regulation
03	5300	CPMS Chlorinated HAP (pH; fan Speed [1]; and liquid flow)	MACT S
07	2505	COMS/PM-HAP Metals (Opacity)	MACT MM
07	2723	COMS/PM-HAP Metals (Opacity)	MACT MM
07	5105	COMS/PM-HAP Metals (Opacity)	MACT MM
07	2510	CPMS/PM (Column pressure drop and Liquid flow) [2]	MACT MM

Table MACT.6.T1 Required Part 63 Monitors

ID	Equip. No.	CMS Type Pollutant Monitored: (Parameter(s))	Regulation
07	5110	CPMS/PM (Column pressure drop and Liquid flow) [2]	MACT MM
09	9801	CMS Condensate feed rate CMS Steam feed rate CMS Condensate feed temperature	MACT S

Notes:
1. Fan speed approved as alternative monitoring for air flow.
2. Same control device used for both 2510 and 5110; only one CPMS on control device (scrubber)

Applicable procedures in §63.8 shall be used for location, installation, assurance of representative sampling, operation, maintenance, calibration, zero drift checks, calibration drift checks, cleaning, accuracy audits, performance audits, quality control program development, performance evaluations, data reduction, inspections, record keeping, and reporting for each required CMS. All CMS must be in continuous operation, except as specified in 63.8(c)(4). A written quality control program must developed for each CAM in accordance with 63.8(d) and a written SSM plan must be developed as specified in 63.6(e) for each CMS (The SSM plan may be part of the process and control equipment SSM plan.). The owner or operator shall keep necessary spare parts readily available for routine repairs on each required CMS.

When the CMS is out of control, as defined by 63.8(c)(7), the owner or operator shall take the necessary corrective action in accordance with the procedures in §63.8(c)(7)(ii). During the period the CMS is out of control, recorded data shall not be used in data averages and calculations, or to meet any data availability requirements. The owner/ operator of a CMS that is out of control shall submit all information concerning out-of-control periods the excess emissions and CMS performance report required in §63.10(e)(3).

MACT.8	ID 02: 5210 5220 5230 5240 5250 ID 03: 5300 ID 07:	•SSM •*MACT S* •*MACT MM*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220), •Pulp Washing System (02:5230), •Oxygen Delignification System (02:5240), •Knotting and Screening System (02:5250); •Kraft Process-Kraft Bleach Plant (03:5300); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 Multi-Effect Evaporator Set (07:2500), •No. 2 Recovery Furnace (07:2505), •No. 2 Smelt Dissolving Tank (07:2510), •No. 2 Lime Kiln (07:2723), •No. 3 Multi-Effect Evaporator Set (07:5100), •No. 3 Recovery Furnace (07:5105), •No. 3 Smelt Dissolving Tank (5110); •No. 1 Combination Boiler (08:2605), •No. 2 Combination Boiler (08:3705); •Condensate Collection Tank

Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
	2400 2500 2505 2510 2723 5100 5105 5110 ID 08: 2605 3705 ID 09: 9800 9801; 5260, 5260C, 2605, 3705		(09:9800), •Condensate Stripper System (09:9801) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 40 CFR Subpart A {General Provisions};S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}; and SC Reg. 61-62.63, Subparts A and S (MACT S)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions}; MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* The affected sources are subject to all applicable startup/shutdown/malfunction (SSM) plan, maintenance, SSM record keeping, and SSM reporting requirements of MACT S and MM. [NESHAP 40 CFR 63, Subpart S Table 1 and Subpart MM Table 1; §63.866(a) §63.6(e)(1), §63.6(e)(3), §63.10(b)(2), §63.10(d)(5)] **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** **(A): SSM Plan**-At all times, including periods of SSM, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of SSM, this general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practice as outlined in 40 CFR 63.6(e)(1). Malfunctions must be corrected as soon as practicable after their occurrence. During an unexpected event arises during a SSM, the owner or operator must comply by minimizing emissions during such a SSM consistent with safety and good air pollution control practices. Determination of whether good operation and maintenance procedures are being used will be based on information available to the Bureau which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the required SSM plan, review of operation and maintenance records, and inspection of the source. The owner or operator of an affected source must develop a written SSM plan that: • Describes, in detail, procedures for operating and maintaining the source during periods of SSM • Includes a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the relevant standard. meets the requirements In addition to the meeting the plan requirements above, the SSM plan of sources subject to 40 CFR 63, Subpart MM (MACT MM) must also contain the following: • Procedures for responding to any process parameter level that is inconsistent with the level(s) established under §63.864(j) • Procedures to determine and record the cause of an operating parameter exceedance and the time the exceedance began and ended • Corrective actions to be taken in the event of an operating parameter exceedance, including procedures for recording the actions taken to correct the exceedance

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			• A maintenance schedule for each control technique that is consistent with, but not limited to, the manufacturer's instructions and recommendations for routine and long-term maintenance • An inspection schedule for each continuous monitoring system required under §63.864 to ensure, at least once in each 24-hour period, that each continuous monitoring system is properly functioning. The plan must be maintained for the life of the source, or until the source is no longer subject to the standard. The SSM plan does not need to address any scenario that would not cause the source to exceed an applicable emission limitation in the relevant standard. [§63.6(e)(3); §63.866(a)] The SSM plan is not a part of the Title V permit and any revisions made to the SSM plan in accordance with the procedures established by 63.6(e) shall not be deemed to constitute Title V permit revisions. In addition, none of the procedures in the SSM plan will fall within the permit shield in section 504(f) of the Clean Air Act. A current SSM plan must be maintained at the source for inspection and copying by the Bureau upon request In addition, if the SSM plan is subsequently revised as provided in §63.6(e)(3)(viii), the owner or operator must maintain at the affected source each previous (i.e., superseded) version of the SSM plan, and must make each such previous version available for inspection and copying by the Bureau for a period of 5 years after revision of the plan. The Bureau may at any time request in writing a copy of any SSM plan maintained at the source for examination by the Bureau. The owner or operator must respond to such request promptly. When actions taken by the owner or operator during startup or shutdown (and the startup or shutdown causes the source to exceed any applicable limitation in the relevant emission standards) or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's SSM plan, the owner or operator shall keep records for that event that demonstrate that the procedures specified in the plan were followed and document of the occurrence and duration of each SSM of operation and each malfunction of the air pollution control equipment. In addition, the owner or operator must keep the records in §63.10(b) (See General MACT record keeping condition). Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of SSM were consistent with the affected source's SSM plan in the semiannual SSM report required in §63.10(d)(5). The owner or operator may make revisions to the SSM plan without prior approval by the Bureau. However, each revision to a SSM plan must be reported in the required semiannual report. If the SSM plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the SSM plan at the time the owner or operator developed the plan, the owner or operator shall revise the SSM plan within forty five (45) days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment. The Bureau may require that an owner or operator of an affected source make changes to the SSM plan for that source. **(B): Immediate SSM Report-**If an action taken by the owner or operator during a SSM (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's SSM plan, and the source exceeded any applicable

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			emission limitation in the relevant emission standard, the owner or operator shall report the actions taken for that event to the Department within two (2) working days after commencing actions inconsistent with the plan, followed by a letter within seven (7) working days after the end of the event. The written Immediate SSM Report should be sent to the Manager of the Technical Management Section, Bureau of Air Quality. (Note: State notification requirements in South Carolina Regulations 62.1, Section II (C)(3) also apply for malfunctions and upsets.) **(C): Periodic SSM Report-**If actions taken by an owner or operator during a SSM of an affected source (including actions taken to correct a malfunction) are consistent with the current SSM plan or if the actions taken are not consistent with the current SSM plan, but the source does not exceed any applicable emission limits of the relevant emission standard, the owner or operator must submit this information in a periodic SSM report. The SSM report shall consist of a letter, containing the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy an the SSM information specified in 40 CFR 63.10(d)(5)(i). The SSM report shall be submitted to the Manager of Technical Management semi-annually (if required) postmarked by the 30th day following the end of each reporting period. Reports shall only be required if a SSM occurred during the reporting period.
MACT.9	ID 02: 5210 5220 5230 5240 5250 ID 03: 5300 ID 07: 2400 2500 2505 2510 2723 5100 5105 5110 ID 08: 2605 3705 ID 09: 9800 9801	•HAP-Record Keeping •*MACT S* •*MACT MM* •*MACT JJJJ*	**Limits/Standards [State Only: No]:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220), •Pulp Washing System (02:5230), •Oxygen Delignification System (02:5240), •Knotting and Screening System (02:5250); •Kraft Process-Kraft Bleach Plant (03:5300); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 Multi-Effect Evaporator Set (07:2500), •No. 2 Recovery Furnace (07:2505), •No. 2 Smelt Dissolving Tank (07:2510), •No. 2 Lime Kiln (07:2723), •No. 3 Multi-Effect Evaporator Set (07:5100), •No. 3 Recovery Furnace (07:5105), •No. 3 Smelt Dissolving Tank (5110); •No. 1 Combination Boiler (08:2605), •No. 2 Combination Boiler (08:3705); •Condensate Collection Tank (09:9800), •Condensate Stripper System (09:9801) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 40 CFR Subpart A {General Provisions};S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}; and SC Reg. 61-62.63, Subparts A and S (MACT S)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions}; MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions}; JJJJ {National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating}; and SC Reg. 61-62.63, Subparts A and JJJJ (MACT JJJJ)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** Specific record keeping for each MACT includes, but is not limited to the requirements listed in Table F-1 of ATTACHMENT F. MACT S [§63.454(a)-§63.454(b); §§63.454(d)-63.454(e)] MACT MM [§§63.866(a)-63.866(c)(5)] MACT JJJJ [§63.3410(a); §§63.3410(a)(1)(iii)-63.3410(a)(1)(vi); §63.310(b)]

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Conditions For 40 CFR Part 63 (MACT) Affected Sources			
Condition No.	**Equip ID**	**Regulated Pollutant/ *Standard***	**Conditions**
			Subpart A [§§63.10(b)(2)(i)-63.10(2)(xii); §63.10(b)(xiv); §63.10(c)(1); §§63.10(c)(5)-(c)(8); §§63.10(c)(10)-§63.10(c)(14)] Note: Other record keeping required by South Carolina and Federal regulations may also apply to theses emission units.
MACT.10	ID 02: 5210 5220 5230 5240 5250 ID 03: 5300 ID 07: 2400 2500 2505 2510 2723 5100 5105 5110 ID 08: 2605 3705 ID 09: 9800 9801	•HAP-Reporting •*MACT S* •*MACT MM* •*MACT JJJJ*	**Limits/Standards:** The following are affected source(s) for this condition: •Continuous Digester System (02:5210), •Turpentine Recovery System (02:5220), •Pulp Washing System (02:5230), •Oxygen Delignification System (02:5240), •Knotting and Screening System (02:5250); •Kraft Process-Kraft Bleach Plant (03:5300); •No. 1 Multi-Effect Evaporator Set (07:2400), •No. 2 Multi-Effect Evaporator Set (07:2500), •No. 3 Multi-Effect Evaporator Set (07:5100); •No. 1 Combination Boiler(08:2605), •No. 2 Combination Boiler (08:3705); •Condensate Collection Tank (09:9800), •Condensate Stripper System (09:9801) The affected source(s) are subject to all applicable limits and requirements of the following regulation(s) (reg.): • *[NESHAP 40 CFR Subpart A {General Provisions};S {National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry}; and SC Reg. 61-62.63, Subparts A and S (MACT S)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions}; MM {National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills}; and SC Reg. 61-62.63, Subparts A and MM (MACT MM)]* • *[NESHAP 40 CFR 63, Subparts A {General Provisions}; JJJJ {National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating}; and SC Reg. 61-62.63, Subparts A and JJJJ (MACT JJJJ)]* **Testing:** Not Required **Monitoring/Record Keeping/Reporting/Other:** The affected sources are subject to all applicable notification and reporting requirements of 40 CFR 63, Subparts A, S, MM, and JJJJ . A summary of potential specific notifications and reporting requirements for each affected source includes, but is not limited to the requirements listed in Table G-1 of ATTACHMENT G. [MACT S: {§§63.455(a)-63.455(b); §63.455(d)}] [MACT MM {§63.867(a)(1); §63.867(c)}] [MACT JJJJ {§63.3400(a);§63.3400(c); §63.3400(e)}] [Subpart A {§63.7(b); §63.7(c)(2)(i); §63.7(g); §63.8(e)(2); §63.(e)(3)(i); §63.8(e)(3)(i); §63.9(b); 63.9(c); §63.9(e); §63.9(g)-63.9(g)(2); §63.9(h); §63.9(j); §§63.10(d)(1)-63.10(d)(2); §§63.10(d)(4)-63.10(d)(5); §63.10(e)]

PROPOSED

C. NESHAP PART 63 PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
S MM JJJJ	Semiannual	January 1 through June 30 July 1 through December 31	Postmarked or delivered no later than 60 calendar days after the end of the semiannual reporting period.

NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date

Note:

(1) This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific Part 63 Subpart for additional reporting requirements and associated schedule.

(2) This reporting schedule does not supersede any Federal reporting requirements including but not limited to 40 CFR 60, 61, and 63. All Federal reports must meet the reporting time frames specified in the Federal standard unless the Department or EPA approves a change.

The MACT reporting schedule may be adjusted to coincide with the Title V period reporting schedule with prior approval in accordance with 63.10(a)(6). This request may be made 1 year after the compliance date for the associated MACT standard.

PROPOSED

PART 8.0 TITLE V REPORTING REQUIREMENTS

A. TITLE V PERIODIC REPORTING SCHEDULE

TABLE 6.1 TITLE V PERIODIC REPORTING SCHEDULE		
Compliance Monitoring Report Submittal Frequency	**Reporting Period (Begins on the effective date of the permit)**	**Report Due Date**
Quarterly	January-March April-June July-September October-December	April 30th July 30th October 30th January 30th
Semiannual	January-June April-September July-December October-March	July 30th October 30th January 30th April 30th
Note: This reporting schedule does not supercede any Federal reporting requirements including but not limited to 40 CFR 60, 61, and 63. All Federal reports must meet the reporting time frames specified in the Federal standard unless the Department or EPA approves a change.		

B. TITLE V COMPLIANCE CERTIFICATION REPORTING SCHEDULE

TABLE 6.2 TITLE V COMPLIANCE CERTIFICATION REPORTING SCHEDULE		
Title V Compliance Certification Submittal Frequency	**Reporting Period (Begins on the effective date of the permit)**	**Report Due Date**
Annual	January-December April-March July-June October-September	February 14th May 15th August 14th November 14th

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ATTACHMENT A

Modeled Emission Rates

Resolute FP US Inc.
TV-2440-0005

The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see conditions 4.2 and 4.3).

AMBIENT AIR QUALITY STANDARDS - STANDARD 2						
Stack		Modeled Emission Rates (lbs/hr)				
SOURCE IDENTIFICATION	Model ID	TSP	PM_{10}	SO_2	NO_2	CO
Recovery Furnace No. 2	FUTRF2	74.5251	74.5251	792.077	112.7003	56.9057
Recovery Furnace No. 3	FUTRF3	78.0966	78.0966	792.077	146.0342	330.958
Smelt Tank No. 2	FUTST2	26.9846	26.9846	0.2397	0.9365	--
Smelt Tank No. 3	FUTST3	16.9844	16.9844	0.4302	1.6984	--
Lime Kiln No. 2	FUTLK2	20.3972	20.3972	39.3657	86.5094	24.2861
Bleach Plant	FUTBP	--	--	--	--	60.3185
Power Boiler No. 1	FUTPB1	68.811	68.811	752.394	104.764	31.5085
Combination Boiler No. 1 – Fuel Burning	FUTCB1	234.925	234.925	865.094	123.018	234.925
Combination Boiler No. 2 – Fuel Burning	FUTCB2	298.418	298.418	1539.708	219.051	298.418
Combination Boiler No. 1 – NCG Gases (1)	FUTNCG1	--	--	641.281	71.0329	10.3176
Combination Boiler No. 2 – NCG Gases (1)	FUTNCG2	--	--	641.281	71.0329	10.3176
No. 1 Holding Basin Pump No. 1	FUTHOLD1	0.7199	0.7199	0.6699	10.0795	2.1667
No. 2 Holding Basin Pump No. 2	FUTHOLD2	0.7603	0.7603	0.7103	5.1826	2.3016
Aerated Stabilization Basin Pump	FUTASBA	0.4397	0.4397	0.4095	3.00	1.3413
Tertiary Treatment Plant Pump	FUTTTPA	0.4397	0.4397	0.4095	3.00	1.3413
Causticizing	CAUST	1.8889	1.8889	--	--	--
Paper Machine No.1	FUTPM1	0.7101	0.7101	2.7632	10.0816	4.0105
Paper Machine No. 2	FUTPM2	0.9493	0.9493	3.7163	13.4299	5.188
Paper Machine No. 3	FUTPM3	0.7101	0.7101	2.7632	9.9713	4.0105
Air Make-up Unit	FUTAMU	0.9617	0.9617	0.0761	19.3272	10.619
FACILITY TOTAL		826.7216	826.7216	5434.185	939.8168	1078.616
(1) NCG gases incinerated in Combination Boiler Nos. 1 and 2, but not simultaneously. Combination Boiler No. 1 was used in the model. Facility total emission rates includes only one Combination Boiler.						
2) Although the facility has not taken credit for the sulfur capture, the maximum potential emission rates have decreased since the model was run with the 641.284 lb/hr. According to the application dated April 2011 the maximum emission rate is 432.34 lb/hr.						

STANDARD NO. 2 and 7 - EXEMPTED NAAQS EMISSION RATES (LBS/HR)					
SOURCE IDENTIFICATION	TSP	PM_{10}	SO_2	NO_2	CO
Railcar Dumper and Receiving Hopper	0.6	0.6	0	0	0
FACILITY TOTAL	0.6	0.6	0	0	0

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ATTACHMENT A

Modeled Emission Rates

Resolute FP US Inc.
TV-2440-0005

STANDARD NO. 7 - MODELED PSD CLASS II INCREMENT EMISSION RATES (LBS/HR)				
SOURCE IDENTIFICATION	**Model ID**	**Minor Source Baseline Date(s)**		
		12/1/1981	**12/1/1981**	**4/5/2001**
		PM_{10}	**SO_2**	**NO_2**
Recovery Furnace No. 3	FUTRF3	78.0966	792.0768	146.0342
Smelt Tank No. 2	FUTST2	26.9846	0.2397	--
Smelt Tank No. 3	FUTST3	16.9844	0.4302	1.6984
Lime Kiln No. 2	FUTLK2	20.3972	39.3657	86.5094
Power Boiler No. 1	FUTPB1	68.8107	752.394	--
Combination Boiler No. 1 – Fuel Burning	FUTCB1	234.925	865.094	--
Combination Boiler No. 2 - Fuel Burning	FUTCB2	298.418	1539.708	--
Combination Boiler No. 1 – NCG Gases (1)	FUTNCG1	--	641.281	71.0329
Combination Boiler No. 2 – NCG Gases (1)	FUTNCG2	--	641.281	71.0329
No. 1 Holding Basin Pump No. 1	FUTHOLD1	0.7199	0.6699	--
No. 2 Holding Basin Pump No. 2	FUTHOLD2	0.7603	0.7103	--
Aerated Stabilization Basin Pump	FUTASBA	0.4397	0.4095	3.00
Tertiary Treatment Plant Pump	FUTTTPA	0.4397	0.4095	3.00
Causticizing	CAUST	1.8889	--	--
Paper Machine No. 2	FUTPM2	0.9493	3.7163	--
Paper Machine No. 3	FUTPM3	0.7101	2.7632	9.9713
Air Make-up Unit	FUTAMU	0.9617	0.0761	--
Smelt Tank No. 1 (2)	BASEST1	-25.00	-5.00	--
Smelt Tank No. 2- original stack (2)	BASEST2	-26.9052	-5.3414	--
Recovery Boiler No. 1 (2)	BASERF1	-68.8107	-100.0017	--
Package Boiler (2)	BASEPB	-71.4298	-416.6737	--
Lime Kiln No. 1 (3)	BASELK1	-46.0325	-11.1113	--
Combination Boiler No. 1 – original stack (3)	BASECB1	-234.925	-865.094	--
Combination Boiler No. 2 – original stack (3)	BASECB2	-298.418	-1539.708	--
Recovery Furnace No. 3	BASERF3	--	--	-96.827

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ATTACHMENT A

Modeled Emission Rates

Resolute FP US Inc.
TV-2440-0005

STANDARD NO. 7 - MODELED PSD CLASS II INCREMENT EMISSION RATES (LBS/HR)				
SOURCE IDENTIFICATION	**Model ID**	**Minor Source Baseline Date(s)**		
		12/1/1981	**12/1/1981**	**4/5/2001**
		PM_{10}	**SO_2**	**NO_2**
Smelt Tank No. 3	BASEST3	--	--	-2.1032
Lime Kiln No. 2	BASELK2	--	--	-29.2862
FACILITY TOTAL		-20.0351	1696.414	193.0298
(1) NCG gases incinerated in Combination Boiler Nos. 1 and 2, but not simultaneously. Combination Boiler No. 1 was used in the model. Facility total emission rates includes only one Combination Boiler.				
(2) Shut down after Dec. 1981				
(3) Shut down after Oct. 1993.				

STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS			
POLLUTANT	**CAS NUMBER**	**EMISSION RATE (LBS/DAY)**	**DE MINIMIS (LBS/DAY)**
Acetaldehyde	75-07-0	0.744	21.600
o-Cresol	95-48-7	0.624	1.326
Hydrogen Sulfide	7783—06-4	0.216	1.680
Methyl Ethyl Ketone	78-93-3	0.456	177.000
Phenol	108-95-2	0.48	2.280

STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR)				
SOURCE IDENTIFICATION	Acrolein 107-02-8	Methanol 67-56-1	Methyl Mercaptan 74-93-1	
No. 6 White Liquor Storage & Green Liquor/White Liquor Swing Tank	0.00077	3.7328	0.5965	

The facility is subject to 40 CFR 63, Subparts S, MM, and JJJJ. The affected units for these standards are exempted from SC Reg. 61-62.5, Std. 8; therefore, only toxic air compound for units not subject to the federal standards are modeled.

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ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.
TV-2440-0005

The following table contains a list of activities which are considered insignificant pursuant to South Carolina Regulation 61-62.70.5(c). Sources listed below are not exempt from any otherwise applicable state or federal requirements including, but not limited to, opacity standards, ambient air quality standards, and air toxic standards.

Table B-1 Insignificant Activities

Equip ID	Source Description	Location	Basis
M38-0001	Turbine Electric Generator (44MW)	Plant	Emission Level < 5 tpy
M26-5000	Turbine Electric Generator (20MW)	Plant	Emission Level < 5 tpy
	Turbine Electric Generator on Steam Header	Plant	Emission Level < 5 tpy
M10-77	Elevated Water Tank	Yard/Plant	Insignificant Activity List (A.20)
M10-111	No. 1 Propane Tank	Yard/Plant	Insignificant Activity List (A.19)
M10-112	No. 2 Propane Tank	Yard/Plant	Insignificant Activity List (A.19)
M10-116	No. 2 Fuel Oil Storage Tank	Yard/Plant	VOC < 5 tpy
M10-162	4,000 gallon Hydraulic Oil Tank-South	Yard/Plant	VOC < 5 tpy
M10-164	4,000 gallon Hydraulic Oil Tank-North	Yard/Plant	VOC < 5 tpy
M10-170	No. 1 Fuel Oil Storage Tank	Yard/Plant	VOC < 5 tpy
M10-173	Bulk Oil Lubricating Van Oil Tank	Yard/Plant	VOC < 5 tpy
M10-283	Fuel Oil Spill Tank at LWC shipping	Yard/Plant	VOC < 5 tpy
M10-306	No. 4 Lube Oil Storage Tank	Yard/Plant	VOC < 5 tpy
M10-307	No. 5 Lube Oil Storage Tank	Yard/Plant	VOC < 5 tpy
M10-308	No. 6 Lube Oil Storage Tank	Yard/Plant	VOC < 5 tpy
M10-314	3,000 Gallon Diesel Fuel Tank	Yard/Plant	VOC < 5 tpy
M10-315	1,000 Gallon Kerosene Fuel tank	Yard/Plant	VOC < 5 tpy
M10-338	Waste Oil Storage Tank at Fuel oil tanks	Yard/Plant	VOC < 5 tpy
M10-339	Oil/Water Separator Feed Tank, Fuel Oil tank	Yard/Plant	VOC < 5 tpy
M10-347	Above Ground Lube oil storage tank	Yard/Plant	VOC < 5 tpy
M10-348	Above Ground Lube oil storage tank	Yard/Plant	VOC < 5 tpy
M10-361	Oil/Water Seperator Feed Tank at Truck Unloading	Yard/Plant	VOC < 5 tpy
M12-41	Drinking Water Tank	Filter Plant	Insignificant Activity List (A.20)
M12-45	Vacuum Priming Tank	Filter Plant	VOC < 5 tpy
M12-60	Finished Water Tank	Filter Plant	Insignificant Activity List (A.20)
M12-96	Poly Phosphate Mix Tank	Filter Plant	Emission Level < 5 tpy
M12-97	Poly Phosphate Day Tank	Filter Plant	Emission Level < 5 tpy
M12-113	Sodium Sulfite Day Tank	Filter Plant	Emission Level < 5 tpy
M12-117	Lime Solution Tank	Filter Plant	Emission Level < 5 tpy
M12-117	Brine Tank	Filter Plant	Emission Level < 5 tpy
M12-119	Sulfuric Acid Tank-15 Diameter (outside not vented)	Filter Plant	Emission Level < 5 tpy
M12-121	Caustic tank – 16' Diameter	Filter Plant	Emission Level < 5 tpy
M12-122	Demineralized Water Storage Tank	Filter Plant	Insignificant Activity List (A.20)
M12-134	Sulfuric Acid Day Tank	Filter Plant	Emission Level < 5 tpy
M12-135	Caustic Day Tank	Filter Plant	Emission Level < 5 tpy
M12-135	Caustic Day Tank	Filter Plant	Emission Level < 5 tpy
M12-216	Concentrated alum Tank	Filter Plant	Emission Level < 5 tpy
M12-218	Dilute Alum Tank	Filter Plant	Emission Level < 5 tpy
M12-679	West Woodyard Cooling Tower Water Tank	Filter Plant	Insignificant Activity List (A.20)
M12-707	East Woodyard Cooling Tower Water tank	Filter Plant	Insignificant Activity List (A.20)
M14-174	Bulk Defoamer Head Tank	Pulp Mill	Insignificant Activity List (A.20)

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ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.
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Table B-1 Insignificant Activities

Equip ID	Source Description	Location	Basis
M15-5	Warm Water Tank	BS Washers	Insignificant Activity List (A.20)
M15-97	Bulk Defoamer Storage Tank	BS Washers	VOC < 5 tpy
M17-479	Instrument Air Receiver Tank	Bleach Plant	Insignificant Activity List (A.25)
M19-9	93% Sulfuric Acid Day Tank	No. 1 Paper Machine	Emission Level < 5 tpy
M19-59	Dilute Alum Head Tank	No. 1 Paper Machine	Emission Level < 5 tpy
M19-60	Alum Constant Head Tank	No. 1 Paper Machine	Emission Level < 5 tpy
M19-100	Concentrated Retention Aid Tank	No. 1 Paper Machine	VOC < 5 tpy
M19-108	Color Tank North Row East	No. 1 Paper Machine	Emission Level < 5 tpy
M19-109	Color Tank North Row Center	No. 1 Paper Machine	Emission Level < 5 tpy
M19-110	Color Tank North Row West	No. 1 Paper Machine	Emission Level < 5 tpy
M19-111	Color Tank South Row East	No. 1 Paper Machine	Emission Level < 5 tpy
M19-112	Color Tank South Row West	No. 1 Paper Machine	Emission Level < 5 tpy
M19-135	Clay Additive Supply Tank	No. 1 Paper Machine	Emission Level < 5 tpy
M19-136	Clay Additive Mix Tank	No. 1 Paper Machine	Emission Level < 5 tpy
M19-141	Deculator Condensate Water collecting Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-11	Primary Flash Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-28	No. 1 Fresh Water Collecting Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-66	Felt Wash Tank	No. 1 Paper Machine	VOC < 5 tpy
M20-157	Concentrated Felt Wash Mix Tank	No. 1 Paper Machine	VOC < 5 tpy
M20-161	No. 1 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-162	No. 2 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-163	No. 3 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-164	No. 4 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-165	No. 5 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-166	No. 6 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-167	No. 7 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-168	No. 8 Steam Separator Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-172	Secondary Flash Tank	No. 1 Paper Machine	Insignificant Activity List (A.25)
M20-183	Oil Tank A East	No. 1 Paper Machine	VOC < 5 tpy
M20-184	Oil Tank A West	No. 1 Paper Machine	VOC < 5 tpy
M20-187	Oil Sump Tank at Column 35	No. 1 Paper Machine	VOC < 5 tpy
M20-188	Oil Sump Tank at Column 41	No. 1 Paper Machine	VOC < 5 tpy
M20-189	Oil Sump Tank at Column 55	No. 1 Paper Machine	VOC < 5 tpy
M20-191	Acid Head Tank	No. 1 Paper Machine	Emission Level < 5 tpy
M20-203	Retention Aid Mixing Tank	No. 1 Paper Machine	VOC < 5 tpy
M20-215	Dilute Retention Aid Tank	No. 1 Paper Machine	VOC < 5 tpy
M20-237	No. 2 Condensate Receiver Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-265	Primary Collector Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-266	Secondary Collector Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-334	No. 2 Fresh Water Collecting Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-345	PM Shower Condensate Tank	No. 1 Paper Machine	Insignificant Activity List (A.20)
M20-442	Caustic Felt Wash Storage Tank	No. 1 Paper Machine	VOC < 5 tpy
M22-39	Propane Vapor Surge Tank	Pulp Finishing	Insignificant Activity List (A.19)
M22-155	Pulp Cutter Blade Heater Water Tank	Pulp Finishing	Insignificant Activity List (A.20)
M23-114	270 Gallon Fuel Tank	Shops/Stores	VOC < 5 tpy
M25-172	No. 2 Cooling Water Collection Tank	Recovery Boilers	Insignificant Activity List (A.20)
M26-33	No. 1 Cooling Water Collecting Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)
M26-51	Condensate Collecting Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)

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ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.

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Table B-1 Insignificant Activities

Equip ID	Source Description	Location	Basis
M26-52	Demineralized Water Storage Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)
M26-69	Boiler Continuous B.D.Flash Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)
M26-79	Phosphated Feed Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)
M26-80	Caustic FeedTank (Neutralizing Amine)	No. 1 Comb. Boiler	Emission Level < 5 tpy
M26-81	Neutralizing Amine Feed Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)
M26-82	Hydrazine Feed Tank	No. 1 Comb. Boiler	Insignificant Activity List (A.20)
M26-5016	Turbine Oil Reservoir	No. 1 Comb. Boiler	VOC < 5 tpy
M26-5063	No. 2 Control Air Compressor Receiver	No. 1 Comb. Boiler	Insignificant Activity List (A.25)
M27-177	25% Caustic Tank	Causticizing	Emission Level < 5 tpy
M27-463	No. 1 Settling Aid Retention Tank	Causticizing	VOC < 5 tpy
M27-464	No. 2 Settling Aid Retention Tank	Causticizing	VOC < 5 tpy
M28-79	Sulfuric Acid Storage Tank	ClO_2 Process	Emission Level < 5 tpy
M28-93	4% Caustic Storage Tank	ClO_2 Process	Emission Level < 5 tpy
M28-136	Liquid Nitrogen Storage Tank	ClO_2 Process	Insignificant Activity List (A.19)
M28-139	Emergency Water Tank	ClO_2 Process	Insignificant Activity List (A.20)
M28-141	Sulfuric Acid Day Tank	ClO_2 Process	Emission Level < 5 tpy
M28-146	Sodium Chlorate Day Tank	ClO_2 Process	Emission Level < 5 tpy
M28-157	Sodium Chlorate Unloading Tank	ClO_2 Process	Emission Level < 5 tpy
M28-215	Sodium Chlorate Storage Tank C	ClO_2 Process	Emission Level < 5 tpy
M29-22	Air Compressor Receiver Tank	Waste Treatment	Insignificant Activity List (A.25)
M29-27	No. 2 Alum Storage Tank	Waste Treatment	Emission Level < 5 tpy
M29-28	No. 3 Alum Storage Tank	Waste Treatment	Emission Level < 5 tpy
M29-31	Anionic Polymer Mix Tank	Waste Treatment	Emission Level < 5 tpy
M29-34	Anionic Polymer Day Tank	Waste Treatment	Emission Level < 5 tpy
M29-36	No. 1 Alum Storage Tank	Waste Treatment	Emission Level < 5 tpy
M29-36	Acid Storage Tank	Waste Treatment	Emission Level < 5 tpy
M29-37	Alum Mix Tank	Waste Treatment	Emission Level < 5 tpy
M29-39	DAF Air Solution Tank	Waste Treatment	VOC < 5 tpy
M29-40	Coagulation Contact Tank	Waste Treatment	Emission Level < 5 tpy
M29-42	Flocculation Contact Tank	Waste Treatment	Emission Level < 5 tpy
M29-44	DAF Sludge Tank	Waste Treatment	VOC < 5 tpy
M29-46	DAF Clarifier Tank and Skimmer	Waste Treatment	VOC < 5 tpy
M29-59	Aeration Pond Defoamer Bulk Tank	Waste Treatment	VOC < 5 tpy
M30-338	PM Drive Reducers Lube Oil Tank	General	VOC < 5 tpy
M32-2	Type 1 Clay Storage Tank No. 2	No. 1 Coating Prep	Emission Level < 5 tpy
M32-3	Outside Alum Storage Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-31	No. 3 Cowles Mix Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-32	No. 2 Cooked Starch Tanks	No. 1 Coating Prep	Emission Level < 5 tpy
M32- 34	No. 1 Cooked Starch Holding Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-42	No. 2 Cowles Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-43	No. 1 Cowles Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-55	No. 1 PM Coater Supply Tank No. 2	No. 1 Coating Prep	Emission Level < 5 tpy
M32-56	No. 1 PM Coater Supply Tank No. 1	No. 1 Coating Prep	Emission Level < 5 tpy
M32-64	No. 1 PM Coater Service Tank No. 1	No. 1 Coating Prep	Emission Level < 5 tpy
M32-66	No. 1 PM Coater Service Tank No. 2	No. 1 Coating Prep	Emission Level < 5 tpy
M32-72	No. 1 Mix Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-80	Outside Alum Storage Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-113	Titanium Dioxide Storage Tank	No. 1 Coating Prep	Emission Level < 5 tpy

ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.
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Table B-1 Insignificant Activities			
Equip ID	**Source Description**	**Location**	**Basis**
M32-118	No. 1 Latex Storage Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-119	No. 2 Latex Storage Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-149	No. 2 Mix Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-157	No. 1 Flash Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-175	No. 1 Insolublizer Storage Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-188	No. 1 Calcium Stearate Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-189	No. 2 Calcuim Stearate Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-194	Ammonia Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-200	No. 3 Latex Storage Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-218	Outside Alum Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-254	No. 5 Latex Storage Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-256	No. 6 Latex Storage Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-257	No. 4 Latex Storage Tank	No. 1 Coating Prep	VOC < 5 tpy
M32-267	No. 7 Calcined Clay Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-268	No. 6 Calcined Clay Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-328	No. 4 Delaminated Clay Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-330	No. 4 Delaminated Clay Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-341	No. 1 Starch Slurry Mix Tans	No. 1 Coating Prep	Emission Level < 5 tpy
M32-342	No. 2 Starch Slurry Mix Taks	No. 1 Coating Prep	Emission Level < 5 tpy
M32-345	No. 1 Starch Slurry Holding Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M32-346	No. 2 Starch Slurry Holding Tank	No. 1 Coating Prep	Emission Level < 5 tpy
M33-83	Condensate Flash Tank	No. 1 Coater	Insignificant Activity List (A.20)
M33-136	Propane Gas Tank	No. 1 Coater	Insignificant Activity List (A.19)
M33-199	Cooling Water Collecting Tank	No. 1 Coater	Insignificant Activity List (A.20)
M33-296	Supply Fan Lube Oil System Oil Tank	No. 1 Coater	VOC < 5 tpy
M33-299	No. 2 Alum Constant Head Tank	No. 1 Coater	Emission Level < 5 tpy
M36-16	Compression Tank-Old System	Administration	Emission Level < 5 tpy
M36-17	Refrigerant Receiver Old System	Administration	Emission Level < 5 tpy
M36-22	Well Drinking Water Storage Tank	Administration	Insignificant Activity List (A.20)
M36-56	Hot Water System Expansion Tank	Administration	Insignificant Activity List (A.20)
M36-59	Fuel Oil Day Tank	Administration	VOC < 5 tpy
M36-68	Propane Storage Tank	Administration	Insignificant Activity List (A.19)
M36-68	Propane Storage Tank	Administration	Insignificant Activity List (A.19)
M36-75	Potable Hot Water Storage Tank	Administration	Insignificant Activity List (A.20)
M36-84	Hot Water System Air Separator	Administration	Insignificant Activity List (A.20)
M36-85	Chilled Water System Expansion Tank	Administration	Insignificant Activity List (A.20)
M36-85	Chilled Water System Air Separator (2)	Administration	Insignificant Activity List (A.20)
M37-21	No. 2 Deaerating Feedwater Storage Tanks	No. 2 Comb. Boiler	Insignificant Activity List (A.20)
M37-30	Small Caustic Storage Tank	No. 2 Comb. Boiler	Emission Level < 5 tpy
M37-149	Emergency Start-up Air Compressor Receiver Tank	No. 2 Comb. Boiler	Insignificant Activity List (A.25)
M37-182	Air Receiver Tank for No. 6 and 7 Air Compressor	No. 2 Comb. Boiler	Insignificant Activity List (A.25)
M38-3	Main Lube Oil Tank	No. 2 Turbine	VOC < 5 tpy
M39-106	Chilled Water System Air Separator		Insignificant Activity List (A.20)
M40-56	Red Dye Mix Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-80	Concentrated Acid Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-82	5 % diluted sulfuric Acid tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-85	Alum Use Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-89	Blue Dye Tank	No. 3 Stock Prep	Emission Level < 5 tpy

ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.

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Table B-1 Insignificant Activities

Equip ID	Source Description	Location	Basis
M40-91	Red Dye Storage Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-93	Blue Dye Storage Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-106	Caustic and Kerosene Measuring Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-108	Concentrated Solution Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-110	Dilute Solution Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-116	Alum dilution Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-122	Acid Measuring Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M40-161	Caustic Felt Wash Storage Tank	No. 3 Stock Prep	VOC < 5 tpy
M40-173	Bulk Defoamer Storage Tank	No. 3 Stock Prep	VOC < 5 tpy
M40-176	Soap Storage tank	No. 3 Stock Prep	VOC < 5 tpy
M40-177	Soap Head Tank	No. 3 Stock Prep	VOC < 5 tpy
M40-212	Retention Aid Bulk Storage Tank	No. 3 Stock Prep	VOC < 5 tpy
M40-213	Retention aid Mix Tank	No. 3 Stock Prep	VOC < 5 tpy
M40-229	1-1/2% sulfuric Acid Tank	No. 3 Stock Prep	Emission Level < 5 tpy
M41-10	Vacuum Tank	No. 3 Paper Machine	Emission Level < 5 tpy
M41-237	Oil surge Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-238	2000 gallon Oil Storage Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-239	2000 gallon Oil Storage Tank	No. 3 Paper Machine	VOC < 5 tpy
M40-245	Rotary Drum Filter Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-246	Rotary Drum filter Tank	No. 3 Paper Machine	Emission Level < 5 tpy
M41-251	No. 1 Condensate Separator Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-253	No. 2 Condensate Separator Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-257	No. 4 Condensate Separator Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-260	Dryer Drainage Vacuum Receiver Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-265	No. 5 Condensate Separator Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-283	Fresh Water Collecting Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-387	Reclaimed Felt Wash Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-400	Vacuum Pit Water To Pulp Mill Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-405	Oil Surge Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-407	Dry end Reducer Lube System Oil Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-441	Oil surge Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-445	Sump Tank	No. 3 Paper Machine	Emission Level < 5 tpy
M41-450	Condensate collection Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-460	High Pressure Pump Service Tank	No. 3 Paper Machine	Emission Level < 5 tpy
M41-473	Headbox Body Temperature Control Water Tank	No. 3 Paper Machine	Insignificant Activity List (A.20)
M41-497	Mill Air Receiver Tank	No. 3 Paper Machine	Insignificant Activity List (A.25)
M41-540	Acid Water Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-655	Winder Lube Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-658	Winder Oil Surge Tank	No. 3 Paper Machine	VOC < 5 tpy
M41-685	Liebeck Pulper Tank	No. 3 Paper Machine	Emission Level < 5 tpy
M41-784	Instrument Air Emergency Reserve Tank	No. 3 Paper Machine	Insignificant Activity List (A.25)
M41-905	W.E. Lube Oil sump Station No. 2 T.S.	No. 3 Paper Machine	VOC < 5 tpy
M41-1001	Caustic to Machine Rejects Storage Tank	No. 3 Paper Machine	Emission Level < 5 tpy
M41-1014	pH Water Heat Exchanger Condensate Tank	No. 3 Paper Machine	VOC < 5 tpy
M43-676	pH Water heat Exchanger Condensate tank	TMP	VOC < 5 tpy
M44-11	Hydrogen Peroxide Tank 'B'	TMP	Emission Level < 5 tpy
M44-194	Borol Storage Tank 'A'	TMP	Emission Level < 5 tpy
M44-198	Hydrosulfite Storage Tank	TMP	Emission Level < 5 tpy

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ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.

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Table B-1 Insignificant Activities			
Equip ID	**Source Description**	**Location**	**Basis**
M44-201	Sulfur Dioxide Storage Tank 'A'	TMP	Emission Level < 5 tpy
M44-204	Cooling Water collection Tank	TMP	Insignificant Activity List (A.20)
M44-273	Sodium Silicate Storage Tank 'A'	TMP	Emission Level < 5 tpy
M44-274	Sodium Aluminate Tank 'A'	TMP	Emission Level < 5 tpy
M44-275	Sodium Aluminate Tank 'B'	TMP	Emission Level < 5 tpy
M44-277	Caustic Day Tank	TMP	Emission Level < 5 tpy
M44-309	Cooling Water Collection Tank	TMP	Insignificant Activity List (A.20)
M44-374	DTPA Storage Tank	TMP	Emission Level < 5 tpy
M44-385	Stpp Mix Tank	TMP	Emission Level < 5 tpy
M44-392	Zinc Sulfate Mix Tank	TMP	Emission Level < 5 tpy
M44-402	Sodium Aluminate Mix Tank	TMP	Emission Level < 5 tpy
M44-404	Borol Storage Tank 'B'	TMP	Emission Level < 5 tpy
M44-406	Alum Storage Tank	TMP	Emission Level < 5 tpy
M44-408	Alum Mix Tank	TMP	Emission Level < 5 tpy
M44-411	Sulfur Dioxide Storage Tank 'B'	TMP	Emission Level < 5 tpy
M44-413	Hydrogen Peroxide Tank 'C'	TMP	Emission Level < 5 tpy
M44-423	Zinc sulfate Day Tank	TMP	Emission Level < 5 tpy
M44-447	Sump Tank	TMP	Emission Level < 5 tpy
M44-468	Hot white Water Collection Tank	TMP	Emission Level < 5 tpy
M44-469	Sodium silicate Storage Tank 'B'	TMP	Emission Level < 5 tpy
M44-550	Hot Fresh Water Tank	TMP	Insignificant Activity List (A.20)
M44-725	Phosphate Day Tank	TMP	Emission Level < 5 tpy
M44-727	Oxygen Scavenger Day Tank	TMP	Emission Level < 5 tpy
M45-75	Stock Prep. Alum head Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-78	5% Caustic Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-79	Alum Mix Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-81	93% Sulfuric acid Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-87	1.5% Sulfuric Acid Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-99	Alum Mix Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-100	No. 1 East Dye Mix Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-102	No. 2 West Dye Mix Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-104	No. 1 Dye use Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-106	No. 2 Dye use Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-110	No. 3 Dye use tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-117	Soap Bulk tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-136	Retention aid bulk Tank	No. 2 Stock Prep	VOC < 5 tpy
M45-138	Clay Mix tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-138	Retention Aid Mix tank	No. 2 Stock Prep	VOC < 5 tpy
M45-155	Clay Use Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-200	Deaerator vessel Seal Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-225	Sulfuric Acid Inhibitor Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-566	Calcined clay storage Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M45-568	Sodium aluminate Tank	No. 2 Stock Prep	Emission Level < 5 tpy
M46-9	Felt Cleaning soap Head Tank	No. 2 Paper Machine	VOC < 5 tpy
M46-10	Felt Cleaning Kerosene Head Tank	No. 2 Paper Machine	VOC < 5 tpy
M46-11	Felt Cleaner Mix Tank	No. 2 Paper Machine	VOC < 5 tpy
M46-21	Felt Cleaner Use Tank	No. 2 Paper Machine	VOC < 5 tpy
M46-92	Press Section Air Compressor Tank	No. 2 Paper Machine	Insignificant Activity List (A.25)

ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.
TV-2440-0005

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Table B-1 Insignificant Activities			
Equip ID	**Source Description**	**Location**	**Basis**
M46-321	Cooling Water Reclaim Tank	No. 2 Paper Machine	Insignificant Activity List (A.20)
M46-507	pH Water Tank	No. 2 Paper Machine	VOC < 5 tpy
M46-510	Retention aid Use Tank	No. 2 Paper Machine	VOC < 5 tpy
M46-614	Chilled Water System No. 2 Expansion Tank	No. 2 Paper Machine	Insignificant Activity List (A.20)
M46-521	Separator Seal Tank	No. 2 Paper Machine	Emission Level < 5 tpy
M46-788	Cooling Dryer separator Seal Tank	No. 2 Paper Machine	Emission Level < 5 tpy
M47-17	No. 3 Flash Tank	No. 2 Paper Machine	Emission Level < 5 tpy
M47-80	No. 2 Coating supply Tank	No. 2 Paper Machine	Emission Level < 5 tpy
M47-154	No. 1 Dye Mix Tank	No. 2 Coater Prep	Emission Level < 5 tpy
M47-156	No. 2 Dye Mix tank	No. 2 Coater Prep	Emission Level < 5 tpy
M47-158	No. 1 Dye Holding tank	No. 2 Coater Prep	Emission Level < 5 tpy
M47-160	No. 2 Dye Holding Tank	No. 2 Coater Prep	Emission Level < 5 tpy
M47-300	No. 3Filler clay Tank	No. 2 Coater Prep	Emission Level < 5 tpy
M47-306	Viscosity Modifier Tank	No. 2 Coater Prep	Emission Level < 5 tpy
M47-308	No. 2 Dye Holding Tank	No. 2 Coater Prep	Emission Level < 5 tpy
M48-31	No. 1 Coating Service Tank	No. 2 Coater	Emission Level < 5 tpy
M48-129	Cooling Water Reclaim Tank	No. 2 Coater	Insignificant Activity List (A.20)
M48-259	No. 2 Coating Service Tank	No. 2 Coater	Emission Level < 5 tpy
M48-273	Chilled Water Tank	No. 2 Coater	Insignificant Activity List (A.20)
M48-280	Coated Broke Alum head Tank	No. 2 Coater	Emission Level < 5 tpy
M49-37	No. 3 S/C Temperature Control system Tank	No. 2 PM Finishing	Emission Level < 5 tpy
M49-88	No. 4 S/C Temperature Control system Tank	No. 2 PM Finishing	Emission Level < 5 tpy
M50-140	Digester Extraction surge Tank		Emission Level < 5 tpy
M50-390	Air Receiver Tank	No. 2 PM Shipping	Insignificant Activity List (A.25)
M50-393	LP Gas Tank	No. 2 PM Shipping	Insignificant Activity List (A.19)
M50-628	Trim Broke Pulper Tank	No. 2 PM Shipping	Emission Level < 5 tpy
M51-29	Condensate Receive surge Tank	No. 3 Recovery Furnace	Insignificant Activity List (A.20)
M51-30	Continuous Blowdown tank	No. 3 Recovery Furnace	Emission Level < 5 tpy
M51-31	Intermittent Blowdown Tank	No. 3 Recovery Furnace	Emission Level < 5 tpy
M51-202	Defoamer bulk Storage Tank	No. 3 Recovery Furnace	VOC < 5 tpy
M51-204	Steam Condensate Surge Tank	No. 3 Recovery Furnace	Insignificant Activity List (A.20)
M51-255	No. 3 Condensate Separator tank	No. 3 Recovery Furnace	Insignificant Activity List (A.20)
M51-498	Nalco 2000 gallon Storage Tank	No. 3 Recovery Furnace	Emission Level < 5 tpy
M61-215	Alum Mix Tank	No. 3 TMP	Emission Level < 5 tpy
M61-285	Stpp Mix Tank	No. 3 TMP	Emission Level < 5 tpy
M61-309	Cooling Water Collection Tank	No. 3 TMP	Insignificant Activity List (A.20)
M61-422	V-Brite Storage Tank 'B'	No. 3 TMP	Emission Level < 5 tpy
M61-426	EDTA Storage Tank	No. 3 TMP	Emission Level < 5 tpy
M61-429	EDTA Day tank	No. 3 TMP	Emission Level < 5 tpy
M61-430	Zinc sulfate Day Tank	No. 3 TMP	Emission Level < 5 tpy
M62-91	Chilled Water Tank		Insignificant Activity List (A.20)
M63-630	Cal. Temp.Air Sys. Water Expansion Tank		Insignificant Activity List (A.20)
M14-30	White Liquor Measuring Tank	Digesters	Retired from service-Not permitted
M14-31	Black Liquor Measuring Tank	Digesters	Retired from service-Not permitted
M14-46	Hot water Storage Tank	Digesters	Retired from service-Not permitted
M14-93	Blow Heat Accumulator Tank	Digesters	Retired from service-Not permitted
M15-01	Blow Tank No.1-South	BS Washers	Retired from service-Not permitted
M15-118	M-C PUMP To No. 3 Br. H.D. Standpipe	BS Washers	Retired from service-Not permitted

ATTACHMENT B

Insignificant Activities

Resolute FP US Inc.

TV-2440-0005

Table B-1 Insignificant Activities			
Equip ID	**Source Description**	**Location**	**Basis**
M15-125	Blow Tank No. 2 North	BS Washers	Retired from service-Not permitted
M15-174	No. 4 Black Liquor Filtrate Tank	BS Washers	Retired from service-Not permitted
M15-36	No. 1 Black Liquor Filtrate Tank	BS Washers	Retired from service-Not permitted
M15-40	No. 2 Black Liquor Filtrate Tank	BS Washers	Retired from service-Not permitted
M15-42	No. 3 Black Liquor Filtrate Tank	BS Washers	Retired from service-Not permitted
M15-44	Collecting Tank For No. 4 PSG shower	BS Washers	Retired from service-Not permitted
M15-64	Brown Stock Mixing Tank	BS Washers	Retired from service-Not permitted
M15-67	Soap Catch Tank	BS Washers	Retired from service-Not permitted
M16-112	No. 4 Decker Seal Tank	Screen Room	Retired from service-Not permitted
M16-120	Defoamer Bulk Storage Tank	Screen Room	Retired from service-Not permitted
M16-121	Defoamer Day Tank	Screen Room	Retired from service-Not permitted
M16-133	Woodyard White Water Surge Tank	Screen Room	Retired from service-Not permitted
M16-152	No. 5 Decker Seal Tank	Screen Room	Retired from service-Not permitted
M16-27	Chlorine Stage Deaeration Tank	Screen Room	Retired from service-Not permitted
M16-37	Secondary HeadBox	Screen Room	Retired from service-Not permitted
M17-212	No. 1 CLO 2 Tower	Bleach Plant	Retired from service-Not permitted
M17-2152	No. 1 Chlorine Dioxide Tower	Bleach Plant	Retired from service-Not permitted
M17-22	First Hypo Bleach Tower	Bleach Plant	Retired from service-Not permitted
M17-223	Fifth Washer Seal Tank	Bleach Plant	Retired from service-Not permitted
M17-377	10% Caustic Storage Tank	Bleach Plant	Retired from service-Not permitted
M17-390	No. 2 Washer Filtrate Deaeration Tank	Bleach Plant	Retired from service-Not permitted
M17-425	Fifth Stage M-C Pump StandPipe	Bleach Plant	Retired from service-Not permitted
M17-430	Chlorination Tower	Bleach Plant	Retired from service-Not permitted
M17-439	Oxygen Storage Tank	Bleach Plant	Retired from service-Not permitted
M17-50	Chlorine Washer Seal Tank	Bleach Plant	Retired from service-Not permitted
M17-52	Caustic Washer Seal Tank	Bleach Plant	Retired from service-Not permitted
M17-55	First HYPO Washer Seal Tank	Bleach Plant	Retired from service-Not permitted
M17-61	Bleach Plant Sewer Foam Tank	Bleach Plant	Retired from service-Not permitted
M17-79	20% Caustic Tank	Bleach Plant	Retired from service-Not permitted
M17-96	Fourth Washer Seal Tank	Bleach Plant	Retired from service-Not permitted
M25-12	No. 1 Recovery Dissolving Tank	No. 1 Recovery Furnace	Retired from service-Not permitted
M25-30	No. 1 Recovery Salt Cake Mix Tank	No. 1 Recovery Furnace	Retired from service-Not permitted
M25-80	No. 1 Recovery Slurry Tank	No. 1 Recovery Furnace	Retired from service-Not permitted
M27-56	Lime Mud tank	Causticizing	Retired from service-Not permitted
M28-20	No. 2 Bleach Liquor Tank	ClO_2 Process	Retired from service-Not permitted
M28-34	Chloride Head Tank	ClO_2 Process	Retired from service-Not permitted

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ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

The following contains the Federal and South Carolina air pollution regulations, which were specified in the Part 70, permit application and determined as applicable and non-applicable by the Department as of the date of this permit issuance. This attachment may be revised by the Department in the event of a change in the nature or emission of pollutants at the source or promulgation of new or revised regulations.

Table C-1 Permit Shield

Regulation/Citation	Description	Applicable (Y/N)	Standard Reason Indicator	Emission Unit ID	Comments (Use when choosing Indicator "J")
SC Reg. 61-62.1	Definitions	**Y**	D	Facility	
SC Reg. 61-62.2	Prohibition of Open Burning	**Y**	D	Facility	
SC Reg. 61-62.3	Air Pollution Episodes	N	J	None	Commissioner criteria
SC Reg. 61-62.4	Hazardous Air Pollution Conditions	**Y**	D	Facility	
SC Reg. 61-62.5, Std. 1	Emissions from Fuel Burning Operations	**Y**	I	06, 08	
SC Reg. 61-62.5, Std. 2	Ambient Air Standards	**Y**	D	Facility	
SC Reg. 61-62.5, Std. 3	Waste Combustion and Reduction	**Y**	I	08	
SC Reg. 61-62.5, Std. 3.1	Hospital, Medical, Infectious Waste Incinerators (HMIWI)	N	A	None	
SC Reg. 61-62.5, Std. 4	Emissions from Process Industries	**Y**	I	Facility	
SC Reg. 61-62.5, Std. 5	Volatile Organic Compounds	**Y**	I	ID 06	
SC Reg. 61-62.5, Std. 5.1	LAER/BACT Applicable to VOC	N	J	Facility	The Net increase in VOC from 1979 baseline is less than 100 tons
SC Reg. 61-62.5, Std. 5.2	Control of Oxides of Nitrogen	**Y**	I	06, 07, 08	
SC Reg. 61-62.5, Std. 6	Alternative Emission Limitation Options	N	A	None	
SC Reg. 61-62.5, Std. 7	Prevention of Significant Deterioration	**Y**	I	06, 07	
SC Reg. 61-62.5, Std. 7.1	Non-attainment New Source Review	**Y**	I	07	
SC Reg. 61-62.5, Std. 8	Toxic Air Pollutants	**Y**	D	Facility	
SC Reg. 61-62.6	Control of Fugitive Particulate Matter	**Y**	I	01,11	
SC Reg. 61-62.7	Good Engineering Practice Stack Heights	**Y**	D	Facility	
SC Reg. 61-62.60, Subpart A	SC Designated Facility Plan and New Source Performance Standards-General Provisions	**Y**	I	02, 07, 08, 09	
SC Reg. 61-62.60, Subparts Cb-Ka; L-AAa; CC-HHHH	SC Designated Facility Plan and New Source Performance Standards	N	A	None	
SC Reg. 61-62.60, Subpart BB	SC Designated Facility Plan and New Source Performance Standards-Standards of Performance for Kraft Pulp Mills	**Y**	I	02, 07, 08, 09	
SC Reg. 61-62.60, Subpart Kb	SC Designated Facility Plan and New Source Performance Standards-Standards of Performance For Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification	**Y**	I	10	

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ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
	Commenced After July 23, 1984"				
SC Reg. 61-62.61	National Emission Standards for Hazardous Air Pollutants (NESHAP)	N	A	None	
SC Reg. 61-62.63, Subpart A	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories-General Provisions	**Y**	I	02, 06, 07, 08, 09	
SC Reg. 61-62.63, Subparts F-R; T-LL; NN-IIII; KKKK-CCCCC; EEEEE-	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories	N	A	None	
SC Reg. 61-62.61, Subpart S	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories- National Emission Standards for Hazardous Air Pollutants From the Pulp and Paper Industry"	**Y**	I	02, 03, 07	
SC Reg. 61-62.61, Subpart MM	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories- National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills"	**Y**	I	07	
SC Reg. 61-62.61, Subpart JJJJ	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories-National Emission Standards For Hazardous Air Pollutants: Paper and Other Web Coating	**Y**	I	06	
SC Reg. 61-62.61, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories-National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Industrial Boilers and Process Heaters	**Y**	I	08	
SC Reg. 61-62.68	Chemical Accident Prevention Program	**Y**	D	04	Chlorine Dioxide
SC Reg. 61-62.70	Title V Operating Permit Program	**Y**	J	Facility	Existing facility is currently a major source and possesses a Title V operating permit
SC Reg. 61-62.72	Acid Rain	N	A	None	
SC Reg. 61-62.96	Nitrogen Oxides (NOx) Budget Trading Program	**Y**	I	08	
SC Reg. 61-62.99	NOx Trading Program Requirements for Stationary Sources Not in the	N	A	None	

PROPOSED

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

PROPOSED

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
	Trading Program				
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards	**Y**	D	Facility	
40 CFR 51	Requirements for Preparation, Adoption, and Submittal of Implementation Plans	**Y**	D	Facility	
40 CFR 52	Approval and Promulgation of Implementation Plans	**Y**	D	Facility	
40 CFR 53	Ambient Air Monitoring Reference and Equivalent Methods	N	J	None	Requirements for State agencies
40 CFR 54	Prior Notice of Citizen Suits	N	J	None	Requirements for State agencies
40 CFR 55	Outer Continental Shelf Air Regulations	N	A	None	
40 CFR 56	Regional Consistency	N	J	None	Requirements for State agencies
40 CFR 57	Primary Nonferrous Smelter Orders	N	A	None	
40 CFR 58	Ambient Air Quality Surveillance	N	J	None	
40 CFR 59	National Volatile Organic Compound Emission Standard for Consumer and Commercial Products	N	A	None	
40 CFR 60 subpart A	General Provisions	**Y**	I	02, 07, 08, 09	
40 CFR 60 subpart B	Adoption and Submittal of State Plans for Designated Facilities	N	A	None	
40 CFR 60 subpart C	Emission Guidelines and Compliance Times	N	A	None	
40 CFR 60 subpart Cb	Emissions Guidelines and Compliance Times for Large Municipal Waste Combustors that are Constructed on or Before September 20, 1994	N	A	None	
40 CFR 60 subpart Cc	Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills	N	A	None	
40 CFR 60 subpart Cd	Emissions Guidelines and Compliance Times for Sulfuric Acid Production Units	N	A	None	
40 CFR 60 subpart Ce	Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators	N	A	None	
40 CFR 60 subpart D	Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	N	A	None	
40 CFR 60, Subpart Da	Electric Utility Steam Generated Units	N	A	None	
40 CFR 60, Subpart Db	Institutional Steam Generating Units	N	A	None	
40 CFR 60, Subpart Dc	Small Industrial Commercial Institutional Steam Generating Units	N	A	None	
40 CFR 60, Subpart E	Incinerators	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

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Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 60, Subpart Ea	Municipal Waste Combustors	N	A	None	
40 CFR 60, Subpart Eb	Large Municipal Waste Combustors	N	A	None	
40 CFR 60, Subpart Ec	Hospital/Medical/Infectious Waste Incinerators	N	A	None	
40 CFR 60, Subpart F	Portland Cement Plants	N	A	None	
40 CFR 60, Subpart G	Nitric Acid Plants	N	A	None	
40 CFR 60, Subpart H	Sulfuric Acid Plants	N	A	None	
40 CFR 60, Subpart J	Petroleum Refineries	N	A	None	
40 CFR 60, Subpart K	Storage Vessels for Petroleum Liquids	N	A	None	
40 CFR 60, Subpart Ka	Storage Vessels for Petroleum Liquids	N	A	None	
40 CFR 60, Subpart Kb	Volatile Organic Liquid Storage Vessels	**Y**	I	None	
40 CFR 60, Subpart L	Secondary Lead Smelters	N	A	None	
40 CFR 60, Subpart M	Secondary Brass and Bronze Production Plants	N	A	None	
40 CFR 60, Subpart N	Primary Emissions from Basic Oxygen Furnaces	N	A	None	
40 CFR 60, Subpart Na	Iron and Steel Plants	N	A	None	
40 CFR 60, Subpart O	Sewage Treatment Plants			None	
40 CFR 60, Subpart P	Primary Copper Smelters	N	A	None	
40 CFR 60, Subpart Q	Primary Zink Smelters	N	A	None	
40 CFR 60, Subpart R	Primary Lead Smelters	N	A	None	
40 CFR 60, Subpart S	Primary Aluminum Reduction Plants	N	A	None	
40 CFR 60, Subpart T	Phosphate Fertilizer Industry: Wet Process Phosphoric Acid Plants	N	A	None	
40 CFR 60, Subpart U	Phosphate Fertilizer Industry: Superphosphoric Acid Plants	N	A	None	
40 CFR 60, Subpart V	Phosphate Fertilizer Industry: Diammonium Phosphate Plants	N	A	None	
40 CFR 60, Subpart W	Phosphate Fertilizer Industry: Triple Superphosphate Plants	N	A	None	
40 CFR 60, Subpart X	Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities	N	A	None	
40 CFR 60, Subpart Y	Coal Preparation Plants	N	A	None	
40 CFR 60, Subpart Z	Ferroalloy Production Facilities	N	A	None	
40 CFR 60, Subpart AA	Steal Plants: Electric Arc Furnaces	N	A	None	
40 CFR 60, Subpart AAa	Steal Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels	N	A	None	
40 CFR 60, Subpart BB	Standards Of Performance For Kraft Pulp Mills	**Y**	I	02, 07, 08, 09	
40 CFR 60, Subpart CC	Glass Manufacturing Plants	N	A	None	
40 CFR 60, Subpart DD	Grain Elevators	N	A	None	
40 CFR 60, Subpart EE	Surface Coating of Metal Furniture	N	A	None	
40 CFR 60, Subpart FF	Reserved	N	A	None	
40 CFR 60, Subpart GG	Stationary Gas Turbines	N	A	None	
40 CFR 60, Subpart HH	Lime Manufacturing Plants	N	A	None	
40 CFR 60, Subpart KK	Lead Acid Battery Manufacturing Plants	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 60, Subpart LL	Metallic Mineral Processing Plants	N	A	None	
40 CFR 60, Subpart MM	Automobile and Light Duty Truck Surface Coating Operations	N	A	None	
40 CFR 60, Subpart NN	Phosphate Rock Plants	N	A	None	
40 CFR 60, Subpart PP	Aluminum Sulfate Manufacturing Plants	N	A	None	
40 CFR 60, Subpart QQ	Graphics Arts Industry: Publication Rotogravure Printing	N	A	None	
40 CFR 60, Subpart RR	Pressure Sensitive Tape and Label Surface Coating Operations	N	A	None	
40 CFR 60, Subpart SS	Industrial Surface Coating: Large Appliances	N	A	None	
40 CFR 60, Subpart TT	Metal Coil Surface Coating	N	A	None	
40 CFR 60, Subpart UU	Asphalt Processing and Asphalt Roofing Manufacturing	N	A	None	
40 CFR 60, Subpart VV	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry	N	A	None	
40 CFR 60, Subpart WW	Beverage Can Surface Coating Industry	N	A	None	
40 CFR 60, Subpart XX	Bulk Gasoline Terminals	N	A	None	
40 CFR 60, Subpart AAA	New Residential Wood Heaters	N	A	None	
40 CFR 60, Subpart BBB	Rubber Tire Manufacturing Industry	N	A	None	
40 CFR 60, Subpart CCC	Reserved	N	A	None	
40 CFR 60, Subpart DDD	Polymer Manufacturing Facility	N	A	None	
40 CFR 60, Subpart EEE	Reserved	N	A	None	
40 CFR 60, Subpart FFF	Flexible Vinyl and Urethane Coating and Printing	N	A	None	
40 CFR 60, Subpart GGG	Equipment Leaks of VOC in Petroleum Refineries	N	A	None	
40 CFR 60, Subpart HHH	Synthetic Fiber Production Facilities	N	A	None	
40 CFR 60, Subpart III	VOC Emissions from Synthetic Organic Chemical Manufacturing Industry Air Oxidation Unit Process	N	A	None	
40 CFR 60, Subpart JJJ	Petroleum Dry Cleaners	N	A	None	
40 CFR 60, Subpart KKK	Onshore Natural Gas Processing Plants	N	A	None	
40 CFR 60, Subpart LLL	Oneshore Natural Gas ProcessingL SO_2 Emissions	N	A	None	
40 CFR 60, Subpart MMM	Reserved	N	A	None	
40 CFR 60, Subpart NNN	Synthetic Organic Chemical Manufacturing Industry Distillation Operations	N	A	None	
40 CFR 60, Subpart OOO	Nonmetallic Mineral Process Plants	N	A	None	
40 CFR 60, Subpart PPP	Wool Fiberglass Insulation Manufacturing Plants	N	A	None	
40 CFR 60, Subpart QQQ	Petroleum Refinery Wastewater VOC Emissions	N	A	None	
40 CFR 60, Subpart RRR	Synthetic Organic Chemical Manufacturing Industrial Reactor	N	A	None	

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ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

REVISED

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
	Processes				
40 CFR 60, Subpart SSS	Magnetic Tape Coating Facilities	N	A	None	
40 CFR 60, Subpart TTT	Industrial Surface Coating: Plastic Parts for Business Machines	N	A	None	
40 CFR 60, Subpart UUU	Calciners and Dryers in Minerals Industries	N	A	None	
40 CFR 60, Subpart VVV	Polymeric Coating of Supporting Substrates Facilities	N	A	None	
40 CFR 60, Subpart WWW	Municipal Solid Waste Landfills	N	A	None	
40 CFR 60, Subpart YYY	Synthetic Organic Chemical Manufacturing Industrial Wastewater	N	A	None	
40 CFR 61, Subpart A	General Provisions	N	A	None	
40 CFR 61, Subpart B	Radon Emissions from Underground Uranium Mines	N	A	None	
40 CFR 61, Subpart C	Beryllium	N	A	None	
40 CFR 61, Subpart D	Beryllium Rocket Motor Firing	N	A	None	
40 CFR 61, Subpart E	Mercury	N	A	None	
40 CFR 61, Subpart F	Vinyl Chloride	N	A	None	
40 CFR 61, Subpart G	Revised	N	A	None	
40 CFR 61, Subpart H	Emissions of Radionuclides Other than Radon from Department of Energy (DOE) Facilities	N	A	None	
40 CFR 61, Subpart I	Radionuclide Emissions from Facilities Licensed by the Nuclear Regulatory Commission (NRC) and Federal Facilities not Covered by Subpart H	N	A	None	
40 CFR 61, Subpart J	Equipment Leaks (Fugitive Emission Sources) of Benzene	N	A	None	
40 CFR 61, Subpart K	Radionuclide Emissions from Elemental Phosphorous Plants	N	A	None	
40 CFR 61, Subpart L	Benzene Emissions from Coke By Product Recovery Plants	N	A	None	
40 CFR 61, Subpart M	Asbestos	N	A	None	
40 CFR 61, Subpart N	Inorganic Arsenic Emissions from Glass Manufacturing	N	A	None	
40 CFR 61, Subpart O	Inorganic Arsenic Emissions from Primary Copper Smelters	N	A	None	
40 CFR 61, Subpart P	Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities	N	A	None	
40 CFR 61, Subpart Q	Radon Emissions from Department of Energy (DOE) Facilities	N	A	None	
40 CFR 61, Subpart R	Radon Emissions from Phosphogypsum Stacks	N	A	None	
40 CFR 61, Subpart S	Reserved	N	A	None	
40 CFR 61, Subpart T	Radon Emissions from the Disposal of Uranium Mill Tailings	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

DRAFT

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 61, Subpart U	Reserved	N	A	None	
40 CFR 61, Subpart V	Equipment Leaks (Fugitive Emission Sources)	N	A	None	
40 CFR 61, Subpart W	Radon Emissions from Operating Mill Tailings	N	A	None	
40 CFR 61, Subpart X	Reserved	N	A	None	
40 CFR 61, Subpart Y	Benzene Emissions from Benzene Storage Vessels	N	A	None	
40 CFR 61, Subpart Z	Reserved	N	A	None	
40 CFR 61, Subpart AA	Reserved	N	A	None	
40 CFR 61, Subpart BB	Benzene Emissions from Benzene Transfer Operations	N	A	None	
40 CFR 61, Subpart CC	Reserved	N	A	None	
40 CFR 61, Subpart DD	Reserved	N	A	None	
40 CFR 61, Subpart EE	Reserved	N	A	None	
40 CFR 61, Subpart FF	Benzene Waste Operations	N	A	None	
40 CFR 62	Approval and Promulgation of State Plans for Designated Facilities and Pollutants	N	J	None	Requirements for State agencies
40 CFR 63, Subpart A	General Provisions	**Y**	I	02, 03, 06, 07, 08, 09	
40 CFR 63, Subpart B	Requirements For Control Technology Determinations For Major Sources In Accordance With Clean Air Act Sections, Sections 112(g) And 112(j)	N	A	None	
40 CFR 63, Subpart C	List of Hazardous Air Pollutants, Petition Process, Lesser Quantity Designations, Source Category List	**Y**	I	02, 06, 07, 08, 09	
40 CFR 63, Subpart D	Compliance Extensions for Early Reductions of HAPs	N	A	None	
40 CFR 63, Subpart E	Approval for State Programs and Delegation of Federal Authorities	N	A	None	
40 CFR 63, Subpart F	Organic Hazardous Air Pollution for the Synthetic Organic Chemical Manufacturing Industry (SOCMI)	N	A	None	
40 CFR 63, Subpart G	Organic Hazardous Air Pollutants form SOCMI for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	N	A	None	
40 CFR 63, Subpart H	Hazardous Organic Standards for Equipment Leaks	N	A	None	
40 CFR 63, Subpart I	Processes Subject to Negotiated Regulation for Equipment Leaks	N	A	None	
40 CFR 63, Subpart J	Polyvinyl Chloride and Copolymers Production	N	A	None	
40 CFR 63, Subpart K	Reserved	N	A	None	
40 CFR 63, Subpart L	Coke Oven Batteries	N	A	None	
40 CFR 63, Subpart M	Perchloroethylene Air Standard for Dry Cleaning	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

DRAFT

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 63, Subpart N	Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	N	A	None	
40 CFR 63, Subpart O	Ethylene Oxide Emissions for Sterilization Facilities	N	A	None	
40 CFR 63, Subpart P	Reserved	N	A	None	
40 CFR 63, Subpart Q	Industrial Process Cooling Towers	N	A	None	
40 CFR 63, Subpart R	Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations	N	A	None	
40 CFR 63, Subpart S	National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry	**Y**	I	02, 03, 07, 08, 09	
40 CFR 63, Subpart T	Halogenated Solvent Cleaning	N	A	None	
40 CFR 63, Subpart U	Group I Polymers and Resins	N	A	None	
40 CFR 63, Subpart V	Reserved	N	A	None	
40 CFR 63, Subpart W	Epoxy Resins and Non-Nylon Polyamides Production	N	A	None	
40 CFR 63, Subpart X	Secondary Lead Smelting	N	A	None	
40 CFR 63, Subpart Z	Marine Tank Vessel Loading Operations	N	A	None	
40 CFR 63, Subpart AA	Phosphoric Acid Manufacturing Plants	N	A	None	
40 CFR 63, Subpart BB	Phosphate Fertilizers Production Plants	N	A	None	
40 CFR 63, Subpart CC	Petroleum Refineries	N	A	None	
40 CFR 63, Subpart DD	Off-Site Waste and Recovery Operations	N	A	None	
40 CFR 63, Subpart EE	Magnetic Tape Manufacturing Operations	N	A	None	
40 CFR 63, Subpart FF	Reserved	N	A	None	
40 CFR 63, Subpart GG	Aerospace Manufacturing and Re-work Facilities	N	A	None	
40 CFR 63, Subpart HH	Oil and Natural Gas Production Facilities	N	A	None	
40 CFR 63, Subpart II	Shipbuilding and Ship Repair (Surface Coating)	N	A	None	
40 CFR 63, Subpart JJ	Wood Furniture Manufacturing	N	A	None	
40 CFR 63, Subpart KK	Printing and Publishing Industry	N	A	None	
40 CFR 63, Subpart LL	Primary Aluminum Reduction Plants	N	A	None	
40 CFR 63, Subpart MM	National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills	**Y**	I	07	
40 CFR 63, Subpart NN	Reserved	N	J	None	Reserved
40 CFR 63, Subpart OO	Tanks-Level I	N	A	None	
40 CFR 63, Subpart PP	Containers	N	A	None	
40 CFR 63, Subpart QQ	Surface Impoundments	N	A	None	
40 CFR 63, Subpart RR	Individual Drains	N	A	None	
40 CFR 63, Subpart SS	Closed Vent Systems, Control Devices, Recovery Devices, and Routing to Fuel Gas System or a Process	N	A	None	
40 CFR 63, Subpart TT	Equipment Leaks-Control Level 1	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

DRAFT

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
	Standards				
40 CFR 63, Subpart UU	Equipment Leaks-Control Level 2 Standards	N	A	None	
40 CFR 63, Subpart VV	Oil-Water Separators and Organic-Waste Separators	N	A	None	
40 CFR 63, Subpart WW	Storage Vessels (Tanks)-Control Level 2	N	A	None	
40 CFR 63, Subpart XX	Ethylene Manufacturing Process Units-Heat Exchange Systems and Waste	N	A	None	
40 CFR 63, Subpart YY	Generic Maximum Achievable Control Technology Standards	N	A	None	
40 CFR 63, Subpart ZZ	Reserved	N	J	None	Reserved
40 CFR 63, Subpart AAA	Reserved	N	J	None	Reserved
40 CFR 63, Subpart BBB	Reserved	N	J	None	Reserved
40 CFR 63, Subpart CCC	Steel Pickling-HCl Process Facilities and Hydrochloric Acid Regeneration Plants	N	A	None	
40 CFR 63, Subpart DDD	Mineral Wool Products	N	A	None	
40 CFR 63, Subpart EEE	Hazardous Waste Combustors	N	A	None	
40 CFR 63, Subpart FFF	Reserved	N	A	None	
40 CFR 63, Subpart GGG	Pharmaceuticals Production	N	A	None	
40 CFR 63, Subpart HHH	Natural Gas Transmission and Storage Facilities	N	A	None	
40 CFR 63, Subpart III	Flexible Polyurethane Foam Production	N	A	None	
40 CFR 63, Subpart JJJ	Group IV Polymers and Resins	N	A	None	
40 CFR 63, Subpart KKK	Reserved	N	A	None	
40 CFR 63, Subpart LLL	Portland Cement Manufacturing Industry	N	A	None	
40 CFR 63, Subpart MMM	Pesticide Active Ingredient Production	N	A	None	
40 CFR 63, Subpart NNN	Wood Fiberglass Manufacturing	N	A	None	
40 CFR 63, Subpart OOO	Amino/Phenolic Resins Manufacturing	N	A	None	
40 CFR 63, Subpart PPP	Polyester Polyols Production	N	A	None	
40 CFR 63, Subpart QQQ	Primary Copper Smelters	N	A	None	
40 CFR 63, Subpart RRR	Secondary Aluminum Production	N	A	None	
40 CFR 63, Subpart SSS	Reserved	N	A	None	
40 CFR 63, Subpart TTT	Primary Lead Smelting	N	A	None	
40 CFR 63, Subpart UUU	Petroleum Refineries-Catalytic Cracking (Fluid and Other) Units , Catalytic Reforming Units, and Sulfur Plants	N	A	None	
40 CFR 63, Subpart VVV	Publicly Owned Treatment Works	N	A	None	
40 CFR 63, Subpart WWW	Reserved	N	J	None	Reserved
40 CFR 63, Subpart XXX	Ferroalloys Production-Ferromanganese and Silicomanganese	N	A	None	
40 CFR 63, Subpart YYY	Reserved	N	J	None	Reserved
40 CFR 63, Subpart ZZZ	Reserved	N	J	None	Reserved
40 CFR 63, Subpart AAAA	Municipal Solid Waste Landfills	N	A	None	
40 CFR 63, Subpart BBBB	Reserved	N	J	None	Reserved

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

REVISED

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 63, Subpart CCCC	Nutritional Yeast Manufacturing	N	A	None	
40 CFR 63, Subpart DDDD	Plywood and Composite Wood Products	N	A	None	
40 CFR 63, Subpart EEEE	Organic Liquid Distribution (non-gasoline)	N	J	None	
40 CFR 63, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing NESHAP	N	A	None	
40 CFR 63, Subpart GGGG	Solvent Extraction for Vegetable Oil Production	N	A	None	
40 CFR 63, Subpart HHHH	Wet-Formed Fiberglass Mat Production	N	A	None	
40 CFR 63, Subpart IIII	Automobile/Light-Duty Truck (Surface Coating)	N	A	None	
40 CFR 63, Subpart JJJJ	National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating	Y	I	06	
40 CFR 63, Subpart KKKK	Metal Can (Surface Coating)	N	A	None	
40 CFR 63, Subpart LLLL	Reserved	N	J	None	Reserved
40 CFR 63, Subpart MMMM	Miscellaneous Metal Parts (Surface Coating)	N	A	None	
40 CFR 63, Subpart NNNN	Surface Coating of Large Appliances	N	A	None	
40 CFR 63, Subpart OOOO	Printing, Coating and Drying of Fabrics	N	A	None	
40 CFR 63, Subpart PPPP	Plastic Parts and Products	N	A	None	
40 CFR 63, Subpart QQQQ	Wood Building Products	N	A	None	
40 CFR 63, Subpart RRRR	Metal Furniture (Surface Coating)	N	A	None	
40 CFR 63, Subpart SSSS	Metal Coil Coating	N	A	None	
40 CFR 63, Subpart TTTT	Leather Finishing Operations	N	A	None	
40 CFR 63, Subpart UUUU	Cellulose Product Manufacturing	N	A	None	
40 CFR 63, Subpart VVVV	Boat Manufacturing	N	A	None	
40 CFR 63, Subpart WWWW	Reinforced Plastic Composites Production	N	A	None	
40 CFR 63, Subpart XXXX	Rubber Tire Manufacturing	N	A	None	
40 CFR 63, Subpart YYYY	Combustion Turbines	N	A	None	
40 CFR 63, Subpart ZZZZ	Reciprocating Internal Combustion Engines	N	A	None	
40 CFR 63, Subpart AAAAA	Lime Manufacturing	N	A	None	
40 CFR 63, Subpart BBBBB	Semiconductor Manufacturing	N	A	None	
40 CFR 63, Subpart CCCCC	Coke Ovens-Pushing, Quenching and Battery Stacks	N	A	None	
40 CFR 63, Subpart DDDDD	Industrial/Commercial/Institutional Boilers and Process Heaters	Y	E	None	Regulation final March 21, 2011, compliance date March 2014. Regulation re-proposed December 23, 2011. Final Regulation signed December 21, 2012.
40 CFR 63, Subpart EEEEE	Iron Foundries	N	A	None	
40 CFR 63, Subpart FFFFF	Integrated Iron and Steel	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
	Manufacturing				
40 CFR 63, Subpart GGGGG	Site Remediation	N	A	None	
40 CFR 63, Subpart HHHHH	Miscellaneous Coating Manufacturing NESHAP	N	A	None	
40 CFR 63, Subpart JJJJJ	Brick and Structural Clay Products	N	A	None	
40 CFR 63, Subpart KKKKK	Clay Ceramics Manufacturing	N	A	None	
40 CFR 63, Subpart LLLLL	Asphalt Roofing and Processing	N	A	None	
40 CFR 63, Subpart MMMMM	Flexible Polyurethane Foam Fabrication Operation	N	A	None	
40 CFR 63, Subpart NNNNN	Hydrochloric Acid Production	N	A	None	
40 CFR 63, Subpart PPPPP	Engine Test Cells/Stands	N	A	None	
40 CFR 63, Subpart RRRRR	Taconite Iron Ore Processing	N	A	None	
40 CFR 63, Subpart SSSSS	Refractories Manufacturing	N	A	None	
40 CFR 63, Subpart TTTTT	National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining	No	A	None	
40 CFR 63, Subpart UUUUU	Reserved	No	J	None	Reserved
40 CFR 63, Subpart VVVVV	Reserved	No	J	None	Reserved
40 CFR 63, Subpart WWWWW	National Emission Standards For Hospital Ethylene Oxide Sterilizers	No	A	None	
40 CFR 63, Subpart XXXXX	Reserved	No	J	None	Reserved
40 CFR 63, Subpart YYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities	No	A	None	
40 CFR 63, Subpart ZZZZZ	National Emission Standards for Hazardous Air Pollutants for Iron And Steel Foundries Area Sources	No	A	None	
40 CFR 63, Subpart AAAAAA	Reserved	No	J	None	Reserved
40 CFR 63, Subpart BBBBBB	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities	No	A	None	
40 CFR 63, Subpart CCCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	No	A	None	
40 CFR 63, Subpart DDDDDD	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources	No	A	None	
40 CFR 63, Subpart EEEEEE	National Emission Standards for Hazardous Air Pollutants for Primary	No	A	None	

PROPOSED

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
	Copper Smelting Area Sources				
40 CFR 63, Subpart FFFFFF	National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources	No	A	None	
40 CFR 63, Subpart GGGGGG	National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources-Zinc, Cadmium, and Beryllium	No	A	None	
40 CFR 63, Subpart HHHHHH	National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources	No	A	None	
40 CFR 63, Subpart IIIIII	Reserved	No	J	None	Reserved
40 CFR 63, Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	No	A	None	
40 CFR 63, Subpart KKKKKK	Reserved	No	J	None	Reserved
40 CFR 63, Subpart LLLLLL	National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources	No	A	None	
40 CFR 63, Subpart MMMMMM	National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources	No	A	None	
40 CFR 63, Subpart NNNNNN	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds	No	A	None	
40 CFR 63, Subpart OOOOOO	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources	No	A	None	
40 CFR 63, Subpart PPPPPP	National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources	No	A	None	
40 CFR 63, Subpart QQQQQQ	National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources	No	A	None	
40 CFR 63, Subpart RRRRRR	National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources	No	A	None	
40 CFR 63, Subpart SSSSSS	National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources	No	A	None	
40 CFR 63, Subpart	National Emission Standards for	No	A	None	

PROPOSED

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
TTTTTT	Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources				
40 CFR 63, Subpart UUUUUU	Reserved	No	J	None	Reserved
40 CFR 63, Subpart VVVVVV	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources	No	A	None	
40 CFR 63, Subpart WWWWWW	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations	No	A	None	
40 CFR 63, Subpart XXXXXX	National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories	No	A	None	
40 CFR 63, Subpart YYYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities	No	A	None	
40 CFR 63, Subpart ZZZZZZ	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries	No	A	None	
40 CFR 63, Subpart AAAAAAA	National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing	No	A	None	
40 CFR 63, Subpart BBBBBBB	National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry	No	A	None	
40 CFR 63, Subpart CCCCCCC	National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing	No	A	None	
40 CFR 63, Subpart DDDDDDD	National Emission Standards for Hazardous Air Pollutants for Area Sources: Prepared Feeds Manufacturing	No	A	None	
40 CFR 63, Subpart EEEEEEE	National Emission Standards for Hazardous Air Pollutants for Area Sources: Gold Mine Ore Processing and Production	No	A	None	
40 CFR 63, Not Assigned	Chlorine Production	N	A	None	
40 CFR 63, Not Assigned	Primary Magnesium Refining	N	A	None	
40 CFR 64	Compliance Assurance Monitoring (CAM)	**Y**	I	02, 07, 08, 09	
40 CFR 65	Consolidated Federal Air Rule	N	A	None	

PROPOSED

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

PROPOSED

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 66	Assessment and Collection of Noncompliance Penalties by EPA	**Y**	N	Facility	No actions pending
40 CFR 67	EPA Approval of State Noncompliance Penalty Program	N	A	None	Requirements for states
40 CFR 68	Chemical Accident Prevention Provisions	**Y**	I	03	
40 CFR 69	Special Exemptions From Requirements Of The Clean Air Act	N	A	None	
40 CFR 70	Operating Permit State Programs	**Y**	J	Facility	Existing facility is currently a major source and possesses a Title V operating permit issued under SC regulations
40 CFR 71	Federal Operating Permit Programs	N	J	None	Operating permits issued under SC regulations
40 CFR 72	Permits Regulation	N	A	None	
40 CFR 73	Allowance System	N	A	None	
40 CFR 74	Sulfur Dioxide Opt-Ins	N	A	None	
40 CFR 75	Continuous Emissions Monitoring	**Y**	J	08	Required as part of NOx Budget Requirements
40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	N	A	None	
40 CFR 77	Excess Emissions	N	A	None	
40 CFR 78	Appeal Procedures	N	A	None	
40 CFR 79	Registration Of Fuels And Fuel Additives	N	A	None	
40 CFR 80	Regulation Of Fuels And Fuel Additives	N	A	None	
40 CFR 81	Designation Of Areas For Air Quality Planning Purposes	**Y**	J	Facility	Facility is located in a designated area
40 CFR 82A-G; H	Protection Of Stratospheric Ozone	N	A	None	
40 CFR 82 F	Protection of Stratospheric Ozone: Recycling and Emission Reduction	**Y**	I	Facility	
40 CFR 83	Reserved	N	J	None	Reserved
40 CFR 84	Reserved	N	J	None	Reserved
40 CFR 85	Control Of Air Pollution From Mobile Sources	N	A	None	
40 CFR 86	Control Of Emissions From New And In-Use Highway Vehicles And Engines	N	A	None	
40 CFR 87	Control Of Air Pollution From Aircraft And Aircraft Engines	N	A	None	
40 CFR 88	Clean-Fuel Vehicles	N	A	None	
40 CFR 89	Control Of Emissions From New And In-Use Nonroad Compression-Ignition Engines	N	A	None	
40 CFR 90	Control Of Emissions From Nonroad Spark-Ignition Engines At Or Below 19 Kilowatts	N	A	None	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Resolute FP US Inc.
TV-2440-0005

Table C-1 Permit Shield					
Regulation/Citation	**Description**	**Applicable (Y/N)**	**Standard Reason Indicator**	**Emission Unit ID**	**Comments (Use when choosing Indicator "J")**
40 CFR 91	Control Of Emissions From Marine Spark-Ignition Engines	N	A	None	
40 CFR 92	Control Of Air Pollution From Locomotives And Locomotive Engines	N	A	None	
40 CFR 93	Determining Conformity Of Federal Actions To State Or Federal Implementation Plans	N	J	None	Requirements for state agencies
40 CFR 94	Control Of Emissions From Marine Compression-Ignition Engines	N	A	None	
40 CFR 95	Mandatory Patent Licenses	N	A	None	
40 CFR 96	NO_X Budget Trading Program And CAIR NO_X And SO_2 Trading Programs For State Implementation Plans	N	J	None	Requirements for state agencies
40 CFR 97	Federal NO_X Budget Trading Program And CAIR NO_X And SO_2 Trading Programs	N	J	08	Requirements of 40 CFR 96 will become part of this regulation
40 CFR 98	Mandatory Reporting of Greenhouse Gases	Y	J	06, 07, 08, 11	Applies to facility, not required to be incorporated into Title V operating permit

TABLE C-2 STANDARD REASONS	
Indicator	**Standard Reason**
A	The facility is not in the applicable source category
B	The specified source/process is not present at the facility
C	The facility/unit was constructed or last modified prior to the effective date of the rule
D	Applies to all facilities
E	Rule/Standard proposed, but not final/effective
F	The facility/unit emits pollutants at a level less than established by the rule
G	The facility/unit design capacity or production capacity is less than established by the rule.
H	The facility is not in a special control/non-attainment area.
I	Applicable to facility; requirements are listed in permit application and facility has certified compliance.
J	Other (explain)

PROPOSED

August 21, 2001

Bowater Coated Paper Division
5300 Cureton Ferry Road
Catawba SC 29704

ATTENTION: Dale Herendeen

RE: Comments on Attachment A and Associated Title V Permit Conditions-Bowater Coated Paper Division (2440-0005)

Dear Mr. Herendeen:

The Department is satisfied that the Attachment A permit condition wording is clear that the emission rates listed therein are not considered limitations.

The Department has stated its position in earlier documents that the emission rates listed in the Department permit Attachment A are not considered federally enforceable emission limitations, but a list of factors used in reviewing the facility's impact on ambient concentration limitations. Until the Department makes a determination that a facility is causing or contributing to an exceedance of Standards #2 or #8, there is no impact upon a facility's rights or anything that would limit its defenses.

Further, the wording under Table 4.1 in your draft permit addresses only those limits in the table (which are linked to conditions in Part 4.B.) Other table contents, such as those addressing asbestos, ozone depleting substances, attachment A, etc., are meant as place holders for the conditions (in which the requirements are explained) that are listed in Part 4.B.

If you have any questions please contact me at (803) 898-4105 or by E-mail at brownrj@columb31.dhec.state.sc.us.

Sincerely,

Robert J. Brown, Jr., Assistant Director,
Engineering Services Division
Bureau of Air Quality

cc Liz Basil, BAQ
Steve Spigner, Catawba District Office

PROPOSED

ATTACHMENT E

TRS and HAP Sources Routed to Combination Boilers for Incineration
Resolute FP US Inc.
TV-2440-0005

Table E-1 Total Reduced Sulfur Gas Collection and Treatment		
Specific TRS Sources Collected and Routed to No. 1 and /or No. 2 Combination Boiler for TRS Reduction for Compliance with South Carolina and NSPS 40 CFR Subpart BB	**Regulation**	**Comments**
Digester Condenser	40 CFR 60 Subpart BB	Chip bin gases; Not routed through TRS scrubber system prior to incineration
Gas Cooler: blow tank, brown stock liquor surge tank, secondary knotter, screen room washer, brown stock liquor surge tank, screen room dilution tank, screen room filtrate tank, shieve thickener)	40 CFR 60 Subpart BB	Gases not routed through TRS scrubber system prior to incineration
No. 1 Multi-Effect Evaporator Set	40 CFR 60 Subpart BB	Gases collected from evaporator bodies and ejector system; Gases scrubbed in Caustic Scrubber CD-5260C prior to boilers
No. 2 Multi-Effect Evaporator Set	SC Standard 4	Gases collected from evaporator bodies and ejector system; Gases scrubbed in Caustic Scrubber CD-5260C prior to boilers
No. 3 Multi-Effect Evaporator Set	40 CFR 60 Subpart BB	Gases collected from evaporator bodies and ejector system; Gases scrubbed in Caustic Scrubber CD-5260C prior to boilers
Foul Condensate Collection Feed Tank (Stripper Feed Tank)	40 CFR 60 Subpart BB	Gases collected from evaporator bodies and ejector system; Gases scrubbed in Caustic Scrubber CD-5260C prior to boilers
Condensate Steam Stripper	40 CFR 60 Subpart BB	Gases from steam stripper column not routed through TRS scrubber system prior to incineration

Table E-2 MACT S Pulping System Gas Collection and Treatment
Specific HAP Sources Collected and Routed to No. 1 and/or No. 2 Combination Boiler for HAP Reduction for Compliance with NESHAP 40 CFR 63, Subpart S
Low Volume High Concentration (LVHC) System (Gases scrubbed [Scrubber CD-5260C] prior to boilers)
No. 1 Evaporator Set [Gases collected from evaporator bodies and ejector system]
No. 2 Evaporator Set [Gases collected from evaporator bodies and ejector system]
No. 3 Evaporator Set [Gases collected from evaporator bodies and ejector system]
Turpentine Feed Tank
Turpentine Decanter
Turpentine Decanter Underflow Standpipe
Turpentine Gas Coolers and Condensers
Foul Condensate Collection Tank (Stripper Feed Tank)
No. 2 Black Liquor Storage Tank
No. 3 Black Liquor Storage Tank
High Volume Low Concentration (HVLC) System
Digester Condenser (chip bin gases) [Not routed through TRS scrubber system prior to incineration]
Gas Cooler (blow tank, secondary knotter, screen room washer gases, brown stock liquor surge tank, No. 1 O_2 reactor blow tube, No. 1 O_2 reactor gas separator, No. 1 post O_2 washer, No. 1 post O_2 filtrate tank, No. 1 O_2 vacuum pump silencer, No. 2 reactor blow tube, No. 2 O_2 reactor gas separator, No. 2 post O_2 washer, No. 2 post O_2 filtrate tank, No. 2 O_2 vacuum pump silencer, HD tank, secondary knotter, screen room washer, post O_2 liquor surge tank, screen room dilution tank, screen room filtrate tank, shieve thickener)
Bleach Feed Tank
Spill Collection Tank
Stripper Off Gases (SOG) (Condensate System)
Condensate Collection Feed Tank

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ATTACHMENT E

TRS and HAP Sources Routed to Combination Boilers for Incineration
Resolute FP US Inc.
TV-2440-0005

Table E-2 MACT S Pulping System Gas Collection and Treatment
Condensate Steam Stripper [Not routed through TRS scrubber system prior to incineration]

Table E-3 Pulping Condensate Collection and Treatment
Specific HAP Pulping System Condensate Sources Collected and Routed to the Steam Stripper for HAP Reduction for Compliance with 40 CFR 63, Subpart S
No. 1 Evaporator 4th effect condensate
No. 1 Evaporator 5th effect condensate
No. 1 Evaporator ejector condenser condensate
No. 2 Evaporator 4th effect condensate
No. 2 Evaporator 5th effect condensate
No. 2 Evaporator ejector condenser condensate
No. 3 Evaporator 6th effect condensate
No. 3 Evaporator cooling tower ejectors
LVHC low point drains (gases to boilers)
HVLC low point drains (gases to boilers)
Condensate Collection Tank (gases to boilers)
Stripper Off-Gas System low point drains (gases to boilers)

Table E-4 Bleach Plant Collection and Treatment
Specific HAP Bleach Plant Sources Collected and Routed to the Bleach Plant Scrubber for HAP Reduction for Compliance With 40 CFR 63, Subpart S
D_0 Tower
D_0 Washer
E_{OP} Reactor
E_{OP} Washer
E_{OP} Filtrate Tank
D_1 Tower
D_1 Washer
D_1 Filtrate Tank
Alkaline Sewer
Acid Sewer

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ATTACHMENT F

40 CFR 63, Part 63 Record Keeping Requirements Summary
Resolute FP US Inc.
TV-2440-0005

Tble F-1 40 CFR 63, Part 63 Record Keeping Requirements Summary		
Record Keeping Requirement for applicable 40 CFR 63, Subpart S, MM, and JJJJ (MACT S, MACT MM, and MACT JJJJ) Affected Sources	**Applicable MACT**	**Regulation**
Enclosure opening, closed-vent system, and closed collection system Records		
Site-specific inspection plan for the affected enclosure openings, closed vent system and closed collection systems	S	§63.454(b)
A drawing or schematic of the components of the affected enclosure openings, closed vent system and closed collection systems	S	§63.454(b)
The dates of system inspections	S	§63.454(b)(1)
The equipment type and identification for system	S	§63.454(b)(2)
Results of negative pressure tests for enclosures for system	S	§63.454(b)(3)
Results of leak detection tests for enclosure openings, closed vent system and closed collection systems	S	§63.454(b)(4)
The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection) for system	S	§63.454(b)(5)
The date the defect or leak was detected and the date of each attempt to repair the defect or leak for system	S	§63.454(b)(6)
Repair methods applied in each attempt to repair the defect or leak for enclosure openings, closed vent system and closed collection systems	S	§63.454(b)(7)
The reason for the delay if the defect or leak is not repaired within 15 days after discovery for system	S	§63.454(b)(8)
The expected date of successful repair of the defect or leak if the repair is not completed within 15 days for system	S	§63.454(b)(9)
The date of successful repair of the defect or leak for system	S	§63.454(b)(10)
The position and duration of opening of bypass line valves and the condition of any valve seals for system	S	§63.454(b)(11)
The duration of the use of bypass valves on computer controlled valves for system	S	§63.454(b)(12)
A record of the presence or absence of gas stream flow in the bypass line at least once every 15 minutes is a flow device used for system	S	§63.454(e)
MACT MM General Record Keeping (SSM and General)		
Maintain a written SSM plan available to the Bureau on request	MM	§63.866(a) §63.6(e)(3)
Procedures to determine and records of the cause of an operating parameter exceedance and the time the exceedance began and ended	MM	63.866(a)(1)(i)
Recording the actions taken to correct an exceedance	MM	63.866(a)(1)(ii)
Records of any occurrence when corrective action is required under §63.864(k)(1), and when a violation is noted under §63.864(k)(2).	MM	63.866(b)
Records of black liquor solids firing rates in units of Mg/d or ton/d for all recovery furnaces	MM	63.866(c)(1)
Records of CaO production rates in units of Mg/d or ton/d for all lime kilns	MM	63.866(c)(2)
Records of parameter monitoring data required under §63.864, including any period when the operating parameter levels were inconsistent with the levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, the time corrective action was initiated and completed, and the corrective action taken	MM	63.866(c)(3)
Records and documentation of supporting calculations for compliance determination	MM	63.866(c)(4)
Records of monitoring parameter ranges established for each affected source or process unit	MM	63.866(c)(5)
MACT JJJJ General Record Keeping		
Records of the organic HAP content data for the purpose of demonstrating compliance with §63.3360(c)	JJJJ	§63.3410(a)(1)(iii)

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40 CFR 63, Part 63 Record Keeping Requirements Summary
Resolute FP US Inc.
TV-2440-0005

Tble F-1 40 CFR 63, Part 63 Record Keeping Requirements Summary		
Record Keeping Requirement for applicable 40 CFR 63, Subpart S, MM, and JJJJ (MACT S, MACT MM, and MACT JJJJ) Affected Sources	**Applicable MACT**	**Regulation**
Records of material usage, organic HAP usage, volatile matter usage, and coating solids usage and compliance demonstrations using these data in accordance with the requirements of §63.3370(b), (c), and (d).	JJJJ	§63.3410(a)(1)(vi)
Startup, Shutdown and Malfunction (SSM) Plan Record Keeping		
The owner or operator must maintain at the affected source a current SSM plan and must make the plan available upon request for inspection and copying by the Bureau. In addition, if the SSM plan is subsequently revised , the owner or operator must maintain at the affected source each previous (i.e., superseded) version of the SSM plan, and must make each such previous version available for inspection and copying by the Bureau for a period of 5 years after revision of the plan.	S, MM	§63.6(e)(3)(v)
Subpart A General Record Keeping (SSM/CMS/General)		
Records of the occurrence and duration of each SSM that causes the source to exceed any applicable emission limitation	S, MM	§63.10(b)(2)(i)
Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the required air pollution control and monitoring equipment	S, MM	§63.10(b)(2)(ii)
Records of all required maintenance performed on the air pollution control and monitoring equipment	S, MM	§63.10(b)(2)(iii)
Records of actions taken during periods of SSM when the source exceeded applicable emission limitations and when the actions taken are different from the procedures specified in the affected source's SSM malfunction plan	S, MM	§63.10(b)(2)(iv)(A)
Records of actions taken during periods of malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) when the actions taken are different from the procedures specified in the affected source's SSM plan	S, MM	§63.10(b)(2)(iv)(B)
Records of all information necessary, including actions taken, to demonstrate conformance with the affected source's SSM plan when all actions taken during periods of startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan	S, MM	§63.10(b)(2)(v) §63.6(e)(3)(iii)
Records of each period during which a CMS is malfunctioning or inoperative (including out-of-control periods)	S, MM	§63.10(b)(2)(vi)
Records of all required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, 15-minute averages of CMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report) [Case by case exceptions in 63.10(b)(vii)(A), 63.10(b)(B), and (C)]	S, MM	§63.10(b)(2)(vii)
Records of all results of performance tests, CMS performance evaluations, and opacity and visible emission observations	S, MM	§63.10(b)(2)(viii)
Records of all measurements as may be necessary to determine the conditions of performance tests and performance evaluations	S, MM	§63.10(b)(2)(ix)
Records of all CMS calibration checks	S, MM	§63.10(b)(2)(x)
Records of all adjustments and maintenance performed on CMS	S, MM	§63.10(b)(2)(xi)
Records of all documentation supporting initial notifications and notifications of compliance status	S, MM	§63.10(b)(2)(xiv)
Subpart A Record Keeping for Sources with CMS		
Records of all required CMS measurements (including monitoring data recorded during unavoidable CMS breakdowns and out-of-control periods)	S, MM	§63.10(c)(1)
Records of the date and time identifying each period during which the CMS was inoperative	S, MM	§63.10(c)(5)

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40 CFR 63, Part 63 Record Keeping Requirements Summary
Resolute FP US Inc.
TV-2440-0005

Tble F-1 40 CFR 63, Part 63 Record Keeping Requirements Summary		
Record Keeping Requirement for applicable 40 CFR 63, Subpart S, MM, and JJJJ (MACT S, MACT MM, and MACT JJJJ) Affected Sources	**Applicable MACT**	**Regulation**
except for zero (low-level) and high-level checks		
Records of the date and time identifying each period during which the CMS was out of control	S, MM	§63.10(c)(6)
Records of the specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions and parameter monitoring exceedances, that occurs during startups, shutdowns, and malfunctions of the affected source.	S, MM	§63.10(c)(7)
The specific identification (i.e., the date and time of commencement and completion) of each time period of excess emissions and parameter monitoring exceedances, that occurs during periods other than startups, shutdowns, and malfunctions of the affected source	S, MM	§63.10(c)(8)
The nature and cause of any malfunction (if known);	S, MM	§63.10(c)(10)
The corrective action taken or preventive measures adopted	S, MM	§63.10(c)(11)
The nature of the repairs or adjustments to the CMS that was inoperative or out of control	S, MM	§63.10(c)(12)
The total process operating time during the reporting period;	S, MM	§63.10(c)(13)
Records of all procedures that are part of a required quality control program developed and implemented for CMS	S, MM	§63.10(c)(14)

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ATTACHMENT G

40 CFR Part 63 Reporting Requirements Summary
Resolute FP US Inc.
TV-2440-0005

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Table G-1 Summary of 40 CFR 63, Subpart A, S, MM, JJJJ, and DDDDD (MACT A, S MM, JJJJ and DDDDD Reporting				
Report	**Regulation**	**Applicable Affected MACT Sources**	**Report Recipient**	**Comment**
Notification Of Performance Test	§63.7(b); §63.9(e)	S, MM	Manager Source Evaluation Section EPA Region 4	• Report: Due 60 calendar days before the performance test is scheduled • Report Content: Site specific test plan required in accordance with §63.7(c)(2) and shall include test program summary, the test schedule, data quality objectives, and both an internal and external quality assurance program.
Results Of Performance Test	§63.7(g); §63.10(d)(2)	S, MM	Manager Source Evaluation Section EPA Region 4	• Report: Due 60th day following the completion of performance test • Also submit as part of notification of compliance status report
Notification Of CMS Performance Evaluation	§63.8(e)(2); §63.8(e)(3); §63.9(g)	S, MM	Manager Source Evaluation Section EPA Region 4	• Notification: Submit simultaneously with the notification of the performance test date or 60 calendar days before the CMS performance test is scheduled • Notification Content: Site specific test plan required in accordance with §63.7(3)(i) and shall include valuation program objectives, an evaluation program summary, the performance evaluation schedule, data quality objectives, and both an internal and external quality assurance program.
Results Of CMS Performance Evaluations	§63.10(e)(2)(i)	S, MM,	Manager Source Evaluation Section EPA Region 4	Submit results simultaneously with results of performance tests and as required by Bureau
Notice of Compliance Status	§63.3400(e) §63.9(h)(1) through (h)(3); §63.9(j)	S, MM, JJJJ	Manager Technical Management Section EPA Region 4	• Report: Due 60th day following the completion of the relevant compliance demonstration and any other time required by changes or by the Bureau • Report Content: Signed by a responsible official and the notification shall include applicable information in §63.9(h)(2)(i) • Required for changes in information within 15 days of the change(s)
Periodic SSM reports	§63.6(e)(3)(iii) §63.10(d)(5)(i)	S, MM	Manager Technical Management Section EPA Region 4 (letter only)	• Report: Due semiannually • Report Content: Certified by a responsible official and the report shall include information in §63.10(d)(5)(i) • May be combined with Excess Emission and CMS Performance report.
Immediate SSM reports	§63.6(e)(3)(iv) §63.10(d)(5)(ii)	S, MM	Manager Technical Management Section EPA Region 4 (letter only)	• Report: Communication (facsimile or telephone) to Bureau at least 2 working days after event and follow up written report within 7 working days of the event • Report Content: The report shall include

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40 CFR Part 63 Reporting Requirements Summary
Resolute FP US Inc.
TV-2440-0005

Table G-1 Summary of 40 CFR 63, Subpart A, S, MM, JJJJ, and DDDDD (MACT A, S MM, JJJJ and DDDDD Reporting				
Report	**Regulation**	**Applicable Affected MACT Sources**	**Report Recipient**	**Comment**
				information in §63.10(d)(5)(ii)
Semiannual Compliance Report	§63.3400(c)	JJJJ	Manager Technical Management Section EPA Region 4 (letter only)	• Initial Report: Due 6/30/06 and post marked no later the 30 days after the due date • Subsequent Reports: Every six (6) months post marked no later than 30 days after the due date; With no deviations report no deviations from emission limitations during reporting period • Report content: Applicable sections of §63.3400(c)(2)
Excess Emissions And Continuous Monitoring System Performance Report	§63.455; §63.867(c); §63.455(a)[Table 1]; §63.8(c)(7) and (c)(8); §63.10(c); §63.10(e)(3)(ii)-(e)(3)(iv)	S [ID 03 5300; ID 09 9800, 9801]; MM [ID 07 2505, 5105, 2510, 5110, 2723]	Manager Technical Management Section EPA Region 4 (letter only)	• Report: For MACT Subpart S, submit semiannually. For MACT Subpart MM, submit semiannually, unless excursions (under 63.876(C)), in which case submit quarterly with excess emissions and/or violations); With no exceedances report no excess emission during reporting period; Reporting frequency may be reduced upon request to semiannually if approved by the Bureau in accordance with §63.10(e)(3)(ii)-(e)(3)(iv); Reports postmarked no later than 30 days after end of reporting period. • Subpart S and MM excess emission reports may be combined • Report Content: Information specified in §63.10(c)(5)-(c)(13); §63.8(c)(7), and §63.8(c)(8) as well as number and duration of occurrences of excess emissions or violations for MM. Zero (low-level) and high-level calibration checks for COMS are not required to be included.

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40 CFR Part 63 Reporting Requirements Summary
Resolute FP US Inc.
TV-2440-0005

Table G-1 Summary of 40 CFR 63, Subpart A, S, MM, JJJJ, and DDDDD (MACT A, S MM, JJJJ and DDDDD Reporting				
Report	**Regulation**	**Applicable Affected MACT Sources**	**Report Recipient**	**Comment**
Summary Report-Gaseous and Opacity Excess Emission and Continuous Monitoring System Performance	§63.455; §63.867(c); §63.455(a)[Table 1]; §63.10(e)(3)(e)(vi) -(e)(3)(viii	S [ID 03 5300; ID 09 9800, 9801]; MM [ID 07 2505, 5105, 2510, 5110, 2723]	Manager Technical Management Section EPA Region 4 (letter only)	• Report: If total duration of excess emissions or process or process control parameter exceedances for reporting period is less than 1 % of the total operating time for the reporting time, and the CMS downtime for the operating period is less than 5%, only a summary report shall be submitted; otherwise, a full Excess Emissions and Continuous Monitoring System Performance Report (above) shall be submitted. Reporting frequency for Summary Report is same as for specified for the Excess Emissions and Continuous Monitoring System Performance Report (above). • Report Content: Information specified in §63.10(e)(3)(vi)
Requests for operating range approvals		S, MM	Manager Engineering Services	• As required • Submit ranges with all supporting data and rational

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ATTACHMENT H

Pollution Control Equipment-Parameter Ranges

Resolute FP US Inc.

TV-2440-0005

Table H-1 Pollution Control Equipment Parameter Ranges

Unit ID	Equip. No.	Control Device No.	Pollutant	Applicable Requirement	Ranges		Range Basis
02	5260	5260C	TRS	40 CFR 60, Subpart BB	**Title V Parameter Range(s):** (LVHC Scrubber) **Parameter Range(s)** (parameter exceedance if outside the following parameter range(s)):		• Test data
					• Scrubber liquid flow:	**≥ 30 gpm**	
					• Scrubber liquid pH:	**≥ 10 pH**	
03	5300	5300C	HAP (Cl_2)	40 CFR 63, Subpart S	**MACT S Operating ranges:** (Bleaching System Scrubber) **Excess Emissions** (potential excess emissions if outside the following range(s) under conditions defined by regulation):		• Test data • Alternative monitoring
					• Scrubber recirculation flow:	**≤ 50 gpm**	
					• Scrubber pH (influent):	**≤ 9.7 pH**	
					• Fan status:	**= On**	
03	5300	5300C	Opacity	SC Reg. 61-62.5, Std. 4	**Title V Parameter Range(s):** (Bleach Plant Scrubber) {MACT S Streamlining for TV} **Parameter Range(s)** (parameter exceedance if outside the following parameter range(s)):		• Test data
					• Scrubber recirculation flow:	**≤ 50 gpm**	
					• Scrubber pH (influent):	**≤ 9.7 pH**	
					• Fan status:	**= On**	
04	1790	1790C	Opacity	SC Reg. 61-62.5, Std. 4	**Title V Parameter Range(s):** (ClO_2 Generator Scrubber) **Parameter Range(s)** (parameter exceedance if outside the following parameter range(s)):		• Test data
					• Scrubber liquid flow:	**≥ 50 gpm**	
					• Scrubber liquid pH:	**≥ 10 pH**	
06	9700	B-2000	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Fresh Lime Pneumatic Lime Unloading Baghouse) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Visual emissions	**= 0**	
07	2723	2723S2	PM	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB SC 61-62.2, Sec. II(E)	**CAM Indicator Range(s)**: (No. 2 Lime Kiln ESP) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Based on MACT MM requirements
					• Opacity [average of ten (10) consecutive six-minute (6-min.) averages]	**≤ 20**	
07	2505	2505C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (No. 2 Recovery Furnace ESP) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Based on MACT MM requirements
					• Opacity [average of ten (10) consecutive six-minute (6-min.) averages]	**≤ 20**	
07	5105	5105C	PM	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: (No. 3 Recovery Furnace ESP) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions		• Based on MACT MM requirements

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Pollution Control Equipment-Parameter Ranges

Resolute FP US Inc.

TV-2440-0005

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Table H-1 Pollution Control Equipment Parameter Ranges							
Unit ID	**Equip. No.**	**Control Device No.**	**Pollutant**	**Applicable Requirement**	**Ranges**		**Range Basis**
					defined by CAM condition):		
					• Opacity [average of ten (10) consecutive six-minute (6-min.) averages]	**≤ 20**	
07	5105	5105C	PM	SC Reg. 61-62.5, Std. 7	**CAM Indicator Range(s)**: (No. 3 Recovery Furnace ESP) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Test Data
					• Opacity [3-hour block average of six-minute (6-min.) averages]	**≤ 16**	
07	2510 5510	2511C	HAP Metals (PM)	40 CFR 63, Subpart MM	**MACT Operating Range(s):** (No. 2 and 3 Smelt Dissolving Tank Scrubber) **Exceedance** (corrective action required if outside the following range(s) under conditions defined by regulation):		• Test Data
					• Scrubbing liquid flow:	**≥65 gpm**	
					• Scrubber pressure drop:	**≥ 1.5 in H_2O**	
					Exceedance (violation if outside the following range(s) under conditions defined by regulation):		
					• Scrubbing liquid flow:	**≥65 gpm**	
					• Scrubber pressure drop:	**≥ 1.5 in H_2O**	
07	2510 5510	2511C	Opacity	SC Reg. 61-62.5, Std. 4	**Title V Parameter Range(s):** (No. 2 and Smelt Tank Scrubber) {MACT S streamlining for TV} **Parameter Range(s)** (parameter exceedance if outside the following parameter range(s)):		• Test Data
					• Scrubber liquid flow:	**≥65 gpm**	
					• Scrubber liquid pH:	**≥ 1.5 in H_2O**	
07	2510 5510	2511C	PM	2510: SC Reg. 61-62.5, Std. 4 5110: SC Reg. 61-62.5, Std. 4 SC Reg. 61-62.5, Std. 7 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: (No. 2 and Smelt Tank Scrubber) {MACT MM Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Test Data
					• Scrubbing liquid flow:	**≥ 65 gpm**	
					• Scrubber pressure drop:	**≥ 1.5 in H_2O**	
07	2510 5510	2511C	TRS	2510: SC Reg. 61-62.5, Std. 4 5110: SC Reg. 61-62.5, Std. 7 40 CFR 60, Subpart BB	**Title V Parameter Range(s):** (No. 2 and Smelt Tank Scrubber) {MACT S streamlining for TV} **Parameter Range(s)** (parameter exceedance if outside the following parameter range(s)):		• Test Data
					• Scrubber liquid flow:	**≥65 gpm**	
					• Scrubber liquid pH:	**≥ 1.5 in H_2O**	
07	2701	2725C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Slaker venturi caustic Scrubber) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Test Data
					• Scrubbing liquid flow:	**≥ 10 gpm**	
07	2702	2726C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Purchased lime silo bag house) **Excursion range** (corrective action required		• Visible observations

ATTACHMENT H

Pollution Control Equipment-Parameter Ranges
Resolute FP US Inc.
TV-2440-0005

Table H-1 Pollution Control Equipment Parameter Ranges

Unit ID	Equip. No.	Control Device No.	Pollutant	Applicable Requirement	Ranges		Range Basis
					if outside following range(s) under conditions defined by CAM condition):		
					• Visual emissions	= 0	
07	2703	2724C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (Reburned lime silo bag house) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Visual emissions	= 0	
08	2605	2605C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (No. 1 Combination Boiler ESP) {MACT DDDDD Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):	To be determined with Boiler MACT Subpart DDDDD requirements	• Based on MACT DDDDD requirements
					• Opacity or ESP parameters		
08	2605	2605	TRS	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: (No. 1 Combination Boiler) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Venting:	= 0	
08	3705	3705C	PM	SC Reg. 61-62.5, Std. 4	**CAM Indicator Range(s)**: (No. 2 Combination Boiler ESP) {MACT DDDDD Presumptive for CAM} **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):	To be determined with Boiler MACT Subpart DDDDD requirements	• Based on MACT DDDDD requirements
					• Opacity or ESP parameters		
08	3705	3705	TRS	SC Reg. 61-62.5, Std. 4 40 CFR 60, Subpart BB	**CAM Indicator Range(s)**: No. 2 Combination Boiler) **Excursion range** (corrective action required if outside following range(s) under conditions defined by CAM condition):		• Visible observations
					• Venting:	= 0	

Cl_2 = Elemental chlorine
TRS = Total reduced sulfur
PM = Particulate Matter
MACT = Maximum achievable control technology (control level required by NESHAP 40 CFR Part 63)
MACT S = 40 CFR 63, Subparts A and S; and SC Reg. 61-62.63, Subparts A and S
MACT MM = NESHAP 40 CFR 63, Subparts A and MM; and SC Reg. 61-62.63, Subparts A and MM
NSPS = New Source Performance Standard
NSPS BB = *NSPS 40 CFR 60, Subparts A and BB; and SC Reg. 61-62.60, Subparts A and BB*
PSD = Prevention of significant deterioration
COMS = Continuous opacity monitoring system
CPMS = Continuous parametric monitoring system
SO_2 = Sulfur Dioxide
SC Reg. = South Carolina regulation
SC Std. 1 = SC Reg. 61-62.5, Standard No. 1 {Emissions From Fuel Burning}
SC Std. 1 = SC Reg. 61-62.5, Standard No. 4 {Emissions From Process Industries}
SC Std. 1 = SC Reg. 61-62.5, Standard No. 7 {Prevention of Significant Deterioration}
SC SM = SC Reg. 61-62, Section II(E) {Synthetic Minor}
< = less than; > = greater than; ≤ = less than or equal to; ≥ = greater than or equal to

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Abbreviations and Symbols
Resolute FP US Inc.
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Table I-1 Abbreviations and Symbols	
Abbreviation	**Description**
AA	Admistrative amendment
ADT	Air dried ton (assumes 10 % moisture)
ADTBP	Air dried tons of bleached pulp (Assumes 10 % moisture)
ADTFP	Air dried tons of finished paper or pulp (Assumes 10 % moisture)
ADTUBP	Air dried tons of unbleached pulp (Assumes 10 % moisture)
BACT	Best available control technology
BLS	Black liquor solids
Btu	British thermal units
CAM	Compliance assurance monitoring
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Register
CMS	Continuous monitoring system
CO	Carbon monoxide
COMS	Continuous opacity monitoring system
CPMS	Continuous parametric monitoring system
EPA	Environmental Protection Agency
ERC	Emission reduction credit
ESP	Electrostatic precipitator
gr/dscf@10%O_2	Grains per dry standard cubic foot corrected to 10 percent oxygen
gr/dscf@8%O_2	Grains per dry standard cubic foot corrected to 8 percent oxygen
H_2S	Hydrogen sulfide
H_2SO_4	Sulfuric acid
HAP	Hazardous air pollutants
hr	Hour
HVLC	High volume low concentration
LAER	Lowest Achievable Emission Rate
lb	pound
lb/hr@tph	pounds per hour at tons per hour process rate
lb/ETADUBP	Pounds per equivalent ton of air dried unbleached pulp (Assumes 10 % moisture)
lb/hr	Pound/hour
Lb/TBLS (dry weight)	pounds per ton of black liquor solids (dry weight)
lb/T BLSF	Pounds per ton of black liquor solids fired
lb/106 Btu	Pounds per million British thermal units
LVHC	Low volume high concentration
MACT	Maximum achievable control technology
MACT DDDDD	40 CFR 63, Subparts A-General Provisions and DDDDD-National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, And Institutional Boilers And Process Heaters
MACT JJJJ	40 CFR 63, Subparts A-General Provisions and JJJJ-National Emission Standards For Hazardous Air Pollutants: Paper And Other Web Coating
MACT MM	40 CFR 63, Subparts A-General Provisions and MM-National Emission Standards For Hazardous Air Pollutants For Chemical Recovery Combustion Sources At Kraft, Soda, Sulfite, And Stand-Alone Semichemical Pulp Mills
MACT RR	40 CFR 63, Subparts A-General Provisons and RR-National Emission Standards For Individual Drain Systems
MACT S	40 CFR 63, Subparts A-General Proviaions and S-National Emission Standards For Hazardous Air Pollutants From The Pulp And Paper Industry
MM	Minor modification
N/A	Not applicable
NESHAP	National emission standards for hazardous air pollutants
NO_X	Nitrogen oxides
NSPS	New source performance standards
NSPS BB	40 CFR 60, Subparts A-General Provisions and BB-Standards Of Performance For Kraft Pulp Mills
NSR	Non-attainment new source review
O_2	Oxygen
ODTP	Oven dried tons of pulp
Pb	Lead
PM	Particulate matter
PM_{10}	Particulate matter less than 10 microns
ppm	Parts per million
ppmv	Parts per million volume
ppmv@10%O_2	Parts per million volume corrected to 10 percent oxygen
ppmv@8%O_2	Parts per million volume corrected to 8 percent oxygen
PSD	Prevention of significant deterioration
Sec.	Section

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Abbreviations and Symbols
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Table I-1 Abbreviations and Symbols	
Abbreviation	**Description**
SC	South Carolina
SC Reg. 61-62.5, Std.	South Carolina Regulation 61-62.5, Standard
SC Std.	South Carolina Standard
SM	Signification modification
SO_2	Sulfur dioxide
SSM	Startup, shutdown, malfunction
TDF	Tire-derived fuel
T	Tons
T BLS/day	Tons of black liquor solids per day
T CaO/day	Tons of calcium oxide per day
TMP	Thermo mechanical pulping
tph	Tons per hour
tpy	Tons per year
TRS	Total reduced sulfur
US EPA	United States Environmental Protection Agency
VE	Visual emission inspections
VOC	Volatile organic compounds

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SC LAER (Standard 5.1) Applicability

South Carolina Lowest Achievable Emission Rate (LAER) Analysis

Date	Activity	Change in Emissions	Net Change in Emissions
1978	Baseline	n/a	0
1979 - 1982	No Changes	0	0
1983	No. 1 Recovery Furnace Converted to Power Boiler and New No. 3 Recovery Furnace	15	15
1984	TRS System	-41	-26
1985	No. 2 Recovery Furnace Converted to NDCE	-15	-41
	No. 10 Digester (vents to Combination Boilers)	0	-41
1986	Groundwood & Old TMP Replaced by New TMP and No. 2 Paper Machine	-80	-121
1987	No Changes	0	-121
1988	No. 1 Holding Basin Pump No. 1	3	-118
1989 - 1994	No Changes	0	-118
1995	No. 1 Lime Kiln Replaced by No. 2 Lime Kiln	1	-117
1996	No Changes	0	-117
1997	Chlorine Dioxide Plant Modifications	0	-117
1998	No Changes	0	-117
1999	Condensate Collection Tank	0	-117
	Pulp Dryer Booster Oven	7	-110
	No. 1 Holding Basin Pump No. 2	4	-106
2000	Air Make-up Units	2	-104
	LVHC System Replacement and Condensate Steam Stripper	-404	-508
2001	Kraft Mill Replaced by New Fiberline and No. 3 Paper Machine Conversion	7	-501
	Aerated Stabilization Basin Pumps	4	-497
	Tertiary Treatment Plant Pumps	4	-493
2002	New Wet-End Starch System	1	-492
2003	No Changes	0	-492
2004	No. 3 Recovery Furnace	1	-491
	TMP Bleaching System	12	-479
2005	New Fiberline Optimization	25	-454
	White Liquor Storage Tank	17	-437
2006	Polyvinyl Alcohol Storage Tanks	37.5	-400
2007	ClO2 Plant Filtrate Separation and Recovery System	0.44	-399
2010	Lime Kiln Optimization	0.8	-398
2011	Kraft Mill Optimization	14.7	-384