2018 Air Emissions Inventory Summary Report

Wisconsin Department of Natural Resources
Air Management Program

111081520 DIDION MILLING-CAMBRIA
501 S Williams St
Cambria

DNR Region: South Central
County: COLUMBIA
SIC Code: 2041 -- FLOUR AND OTHER GRAIN MILL PRODUCTS
NAICS Code: 325193 -- Ethyl Alcohol Manufacturing

 # Employees: 120
Area: 1643954 ft2

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DEVICE AND PROCESS LIST

DEVICE ID > PROCESS ID	DEVICE CODE > PROCESS CODE	DEVICE NAME > PROCESS NAME	DEVICE CATEGORY > PROCESS DESCRIPTION
B04	BOILER	Boiler (natural gas fired) 92.05 MMBTU/hr	Boiler/Furnace
--> 01	GENERIC	Boiler #4 Natural Gas Combustion	Generic Throughput Process
B05	BOILER	Boiler (natural gas fired) 92.05 MMBTU/hr	Boiler/Furnace
--> 01	GENERIC	Boiler #5 Natural Gas Combustion	Generic Throughput Process
C01	BAGHOUSE	BAGHOUSE FOR P01	Baghouse/Fabric Filter
C08	BAGHOUSE	BAGHOUSE FOR P08	Baghouse/Fabric Filter
C10	BAGHOUSE	BAGHOUSE FOR P10	Baghouse/Fabric Filter
--> 01	CONTROLLING	BAGHOUSE FOR P10	Used for collectors
C11	BAGHOUSE	BAGHOUSE FOR P11	Baghouse/Fabric Filter
C14	BAGHOUSE	BAGHOUSE FOR P22 AND P23	Baghouse/Fabric Filter
--> 01	CONTROLLING	Baghouse Filtration For P22 and P23	Used for collectors
C17	BAGHOUSE	BAGHOUSE FOR P15	Baghouse/Fabric Filter
C21	BAGHOUSE	BAGHOUSE FOR P19	Baghouse/Fabric Filter
C22	BAGHOUSE	BAGHOUSE FOR P20	Baghouse/Fabric Filter
C30	WATER SPRAYS	Fermentation Wet Scrubber (Packed Tower)	Wet Collection Systems
--> 01	CONTROLLING	Fermentation CO2 Scrubbing	Used for collectors
C31	WATER SPRAYS	Vent Gas Wet Scrubber (Packed Bed)	Wet Collection Systems
--> 01	CONTROLLING	Vent Gas Scrubbing	Used for collectors
C32	CATALYTIC OXIDR	RTO (Regenerative Thermal Oxidizer)	Catalytic or Thermal Oxidation
--> 01	CONTROLLING	RTO #1	Used for collectors
C33	BAGHOUSE	DDGS Elevator / Loadout Baghouse	Baghouse/Fabric Filter
--> 01	CONTROLLING	Baghouse For P54 & P55	Used for collectors
C34	ENCLOSURE	Flare For Truck/Rail Loadout Of Denatured Ethanol	Cyclone/Settling Chambers
--> 01	CONTROLLING	Flare	Used for collectors
C35, C36	BAGHOUSE	Baghouses For Hammermills Feeding Ethanol Plant	Baghouse/Fabric Filter
--> 01	CONTROLLING	Hammermill baghouses	Used for collectors
C37	BAGHOUSE	A-mill Cartridge Collector	Baghouse/Fabric Filter
C39	CYCLONE	Multiple Cyclone (w/o flyash injection) following DDGS Dryer	Cyclone/Settling Chambers
--> 01	CONTROLLING	DDGS Cyclones	Used for collectors
C40	BAGHOUSE	DDGS Dryer baghouse	Baghouse/Fabric Filter
--> 01	CONTROLLING	DDGS dryer baghouse	Used for collectors

C41	ABSORBER	LEAK DETECTION AND REPAIR PROGRAM	Adsorbers
--> 01	CONTROLLING	LEAK DETECTION AND REPAIR PROGRAM	Used for collectors
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C45	FILTER	Grit dryer baghouse	Fabric Filters
---	---	---	---
C46	COLLECTOR	Grit dryer cyclone	Cyclone/Settling Chambers
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C50	SCRUBBER	Knock out scrubber	Wet Collection Systems
--> 01	CONTROLLING	Knockout scrubber	Used for collectors
---	---	---	---
C53	THERMAL OXIDIZR	RTO #3	Catalytic or Thermal Oxidation
--> 01	CONTROLLING	RTO 3	Used for collectors
---	---	---	---
C54	BAGHOUSE	Pit 4 baghouse	Baghouse/Fabric Filter
--> 01	CONTROLLING	Pit 4 baghouse	Used for collectors
---	---	---	---
F01	LOADING STATION	Fugitive Emissions from North Grain Receiving/Shipping	Miscellaneous
--> 01	GENERIC	Fugitive Emissions From North Grain Receiving/Loadout	Generic Throughput Process
---	---	---	---
F02	LOADING STATION	Fugitive Emissions from South Grain Receiving	Miscellaneous
--> 01	GENERIC	South Grain Receiving Fugitive Emissions	Generic Throughput Process
---	---	---	---
F03	STOCKPILE	DDGS STORAGE	Miscellaneous
--> 01	GENERIC	DDGS STORAGE	Generic Throughput Process
---	---	---	---
F04	CONVEYOR		Miscellaneous
--> 01	GENERIC	DDGS HANDLING	Generic Throughput Process
---	---	---	---
F05	GENERIC		Miscellaneous
--> 01	GENERIC	EQUIPMENT LEAKS	Generic Throughput Process
---	---	---	---
F06	GENERIC	Road Dust Fugitive Emissions	Miscellaneous
--> 01	GENERIC	Fugitive Dust Emissions From Truck Traffic	Generic Throughput Process
---	---	---	---
F08	MILL	WET CAKE STORAGE FUGITIVE EMISSIONS	Miscellaneous
--> 01	GENERIC	WET CAKE EMISSIONS	Generic Throughput Process
---	---	---	---
P01	LOADING STATION	North Truck/Rail GRAIN RECEIVING	Miscellaneous
--> 01	GENERIC	North Grain Receiving - Rail unload	Generic Throughput Process
--> 02	GENERIC	North Grain Receiving - Truck Loading	Generic Throughput Process
---	---	---	---
P08	LOADING STATION	MILL TRUCK BULK LOADOUT	Miscellaneous
--> 01	GENERIC	Milled Grain Load and Unload - Truck and Rail	Generic Throughput Process
---	---	---	---
P10	@	Grain Milling Exhausting To The South Filters (C10)	Miscellaneous
---	---	---	---
P101	GENERIC	Pit 4 and leg	Miscellaneous
--> 01	GENERIC	Pit 4 and leg	Generic Throughput Process
---	---	---	---
P11	@	Grain Milling Exhausting To The North Filters (C11)	Miscellaneous
--> 01	GENERIC	Grain Milling Exhausting To The North Filters	Generic Throughput Process
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P15	LOADING STATION	South Truck Unload/Load	Miscellaneous

P16	GENERIC	Grain Dryer	Miscellaneous
--> 01	GENERIC	Grain Drying	Generic Throughput Process
P16A	DRYER	Natural Gas	Boiler/Furnace
--> 01	GENERIC	Grain Dryer - Natural Gas Combustion	Generic Throughput Process
P19	MILL	Mill Flour Operations - Grain Milling	Miscellaneous
P205	@	Ethanol Recovery System	Miscellaneous
--> 01	GENERIC	Natural Gas Combustion In RTO 1	Generic Throughput Process
--> 02	GENERIC	Emission from P205 directed to RTO#1 (C32)	Generic Throughput Process
--> 03	GENERIC	Emission from P205 only directed to RTO#3 (C53)	Generic Throughput Process
P22	@	GRAIN STORAGE AND HANDLING	Miscellaneous
--> 01	GENERIC	Grain Silo Storage ^ Handling	Generic Throughput Process
P23	@	GRAIN STORAGE AND HANDLING	Miscellaneous
--> 01	GENERIC	Product Silo Storage ^ Handling	Generic Throughput Process
P32-P35	GENERIC	Fermentation Tanks 1 through 3, Beerwell (P-35) and Yeast Propagation (P-88)	Miscellaneous
--> 01	GENERIC	Fermentation Tanks, Beerwell and Yeast Propagation	Generic Throughput Process
P49	GENERIC	DDGS Dryer Portion to C32 includes scrubbers	Miscellaneous
P49C	GENERIC	DDG dryer Natural gas going to RTO 3	Miscellaneous
--> 01	GENERIC	DDG Dryer Natural Gas Combustion Directed To RTO#3	Generic Throughput Process
P49D	GENERIC	DDGS dryer + scrubber to RTO 3 (C53)	Miscellaneous
--> 01	GENERIC	DDGS dryer + Ethanol Recovery System (P205) emissions directed to RTO #3 (C53)	Generic Throughput Process
P49F	@GROUP	RTO 3 (natural gas combustion)	Miscellaneous
--> 01	GENERIC	RTO #3 Natural Gas Combustion	Generic Throughput Process
P49G	GENERIC	DDGS Dryer Directed To RTO 3 (no scrubbers)	Miscellaneous
--> 01	GENERIC	DDGS Dryer (P49) emissions directed to RTO#3 (C53)	Generic Throughput Process
P52, P53	GENERIC	Denatured Ethanol Loadout (truck, rail)	Miscellaneous
--> 01	GENERIC	Natural Gas Assist Combustion	Generic Throughput Process
--> 02	GENERIC	Displaced vapors from rail cars & trucks	Generic Throughput Process
P54, P55	GENERIC	DDGS Elevator, Loadout	Miscellaneous
--> 01	GENERIC	DDGS Loadout - Truck	Generic Throughput Process
P56,P57	COOLING TOWER	COOLING TOWERS	Miscellaneous
--> 01	GENERIC	COOLING TOWER	Generic Throughput Process
P58-64	MILL	Hammermills Feeding Ethanol Plant	Miscellaneous
--> 01	GENERIC	Hammermills Feeding Ethanol Plant	Generic Throughput Process
P90	GENERIC	Fermenter 6	Miscellaneous
--> 01	GENERIC	Fermenter 6	Generic Throughput Process

P91	GENERIC	Fermenter 7	Miscellaneous
--> 01	GENERIC	Ferm 7	Generic Throughput Process
P99	COOLING TOWER	2011 Cooling Tower SE corner	Miscellaneous
--> 01	GENERIC	Tower drift	Generic Throughput Process
T01, T02	TANK,FIXED	Storage Tanks (200 proof product).	Storage Tank
--> 01	BREATHING	Breathing and working loss from tanks T01 and T02)	Tank breathing loss
--> 02	WORKING	Working loss from tanks T01 & T02	Loss of vapors from a tank due to inflow/outflow
T03	TANK,FIXED	Denaturant (gasoline) storage tank	Storage Tank
--> 01	BREATHING	STORAGE TANK	Tank breathing loss
--> 02	WORKING	Denaturant Bulk Storage	Loss of vapors from a tank due to inflow/outflow
T04, T05	TANK,FIXED	Denatured ethanol storage tanks (2)	Storage Tank
--> 01	BREATHING	STORAGE TANK	Tank breathing loss
--> 02	WORKING	Denatured Ethanol Bulk Storage	Loss of vapors from a tank due to inflow/outflow
T07	TANK,FIXED	Courtland Bronze Storage Tank	Storage Tank
--> 01	BREATHING	Breathing and working loss from Courtland Bronze Storage Tank T07	Tank breathing loss
--> 02	WORKING	Working loss from load out to tanker trucks	Loss of vapors from a tank due to inflow/outflow
T08	TANK,FIXED	Aqueous Ammonia Storage Tank	Storage Tank

EMISSION FLOW SUMMARY

B04-01 ---(100%)---> S34-01 ---(100%)---> OUT
B05-01 ---(100%)---> S35-01 ---(100%)---> OUT
F01-01 ---(100%)---> OUT
F02-01 ---(100%)---> OUT
F03-01 ---(100%)---> OUT
F04-01 ---(100%)---> OUT
F05-01 ---(100%)---> C41-01
F06-01 ---(100%)---> OUT
F08-01 ---(100%)---> OUT
P101-01 ---(100%)---> C54-01
C54-01 ---(100%)---> S47-01 ---(100%)---> OUT
P16-01 ---(100%)---> S23-01 ---(100%)---> OUT
P16A-01 ---(100%)---> S23-01 ---(100%)---> OUT
P205-01 ---(100%)---> C32-01
C32-01 ---(100%)---> S32-01 ---(100%)---> OUT
P205-02 ---(100%)---> C32-01
C32-01 ---(100%)---> S32-01 ---(100%)---> OUT
P205-03 ---(100%)---> C53-01
C53-01 ---(100%)---> S46-01 ---(100%)---> OUT
P22-01 ---(100%)---> C14-01
C14-01 ---(100%)---> S14-01 ---(100%)---> OUT
P23-01 ---(100%)---> C14-01
C14-01 ---(100%)---> S14-01 ---(100%)---> OUT
P32-P35-01 ---(100%)---> C50-01
C50-01 ---(100%)---> C30-01
C30-01 ---(100%)---> C32-01
C32-01 ---(100%)---> S32-01 ---(100%)---> OUT
P49C-01 ---(100%)---> C53-01
C53-01 ---(100%)---> S46-01 ---(100%)---> OUT
P49D-01 ---(100%)---> C53-01
C53-01 ---(100%)---> S46-01 ---(100%)---> OUT
P49F-01 ---(100%)---> C53-01
C53-01 ---(100%)---> S46-01 ---(100%)---> OUT
P49G-01 ---(100%)---> C53-01
C53-01 ---(100%)---> S46-01 ---(100%)---> OUT
P52, P53-01 ---(100%)---> C34-01
C34-01 ---(100%)---> S38-01 ---(100%)---> OUT
P52, P53-02 ---(100%)---> C34-01
C34-01 ---(100%)---> S38-01 ---(100%)---> OUT
P54, P55-01 ---(100%)---> C33-01
C33-01 ---(100%)---> S33-01 ---(100%)---> OUT
P56,P57-01 ---(100%)---> S37-01 ---(100%)---> OUT
P58-64-01 ---(100%)---> C35, C36-01

C35, C36-01 ---(100%)---> S39-01 ---(100%)---> OUT
P90-01 ---(100%)---> C50-01
C50-01 ---(100%)---> C30-01
C30-01 ---(100%)---> C32-01
C32-01 ---(100%)---> S32-01 ---(100%)---> OUT
P91-01 ---(100%)---> C50-01
C50-01 ---(100%)---> C30-01
C30-01 ---(100%)---> C32-01
C32-01 ---(100%)---> S32-01 ---(100%)---> OUT
P99-01 ---(100%)---> S42-01 ---(100%)---> OUT
T01, T02-01 ---(100%)---> OUT
T01, T02-02 ---(100%)---> OUT
T03-01 ---(100%)---> OUT
T03-02 ---(100%)---> OUT
T04, T05-01 ---(100%)---> OUT
T04, T05-02 ---(100%)---> OUT
T07-01 ---(100%)---> OUT
T07-02 ---(100%)---> OUT

DEVICES/PROCESSES DETAILS

B04 **Boiler/Furnace** **Boiler**

DEVICE DESC: Boiler (natural gas fired) 92.05 MMBTU/hr
CONSTR DATE:
DEVICE COMMENTS:
MAX RATED CAPACITY: MMBTU/HR

B04, Process 01 **Generic Throughput Process**

PROCESS NAME: Boiler #4 Natural Gas Combustion
SCC CODE: 10200602
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 25% Q3: 27% Q4: 24%
ANNUAL TPUT: 547.69 MMCF of Natural Gas
AVG TPUT: 64.10229 E3 FT3/H
MAX TPUT: 92.05 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.0002 LB / MMCF	EPA
CADMIUM	.0011 LB / MMCF	EPA
CO	84 LB / MMCF	EPA
FORMALDEHYDE	.075 LB / MMCF	EPA
NOX	100 LB / MMCF	EPA
PM	7.6 LB / MMCF	EPA
PM10	7.6 LB / MMCF	EPA
ROG	5.5 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	46,005.960 LB	46,005.960 LB	
NOX (c)	10000 LB	54,769.000 LB	54,769.000 LB	162.501 LB
PM (c)	10000 LB	4,162.444 LB	4,162.444 LB	
PM10 (c)	10000 LB	4,162.444 LB	4,162.444 LB	
ROG (c)	6000 LB	3,012.295 LB	3,012.295 LB	8.938 LB
ARSENIC (c) (fs)	.21 LB	.110 LB	.110 LB	
CADMIUM (c) (fs)	.49 LB	.602 LB	.602 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	41.077 LB	41.077 LB	

--INCOMING STREAMS--

TPUT --> B04-01

--OUTGOING STREAMS--

B04-01 ---(100%)---> S34-01 ---(100%)---> OUT

B05 **Boiler/Furnace** **Boiler**

DEVICE DESC: Boiler (natural gas fired) 92.05 MMBTU/hr
CONSTR DATE:
DEVICE COMMENTS:
MAX RATED CAPACITY: MMBTU/HR

B05, Process 01 **Generic Throughput Process**

PROCESS NAME: Boiler #5 Natural Gas Combustion
SCC CODE: 10200602
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 18% Q3: 29% Q4: 29%
ANNUAL TPUT: 534.61 MMCF of Natural Gas
AVG TPUT: 62.5714 E3 FT3/H
MAX TPUT: 92.05 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.0002 LB / MMCF	EPA
CADMIUM	.0011 LB / MMCF	EPA
CO	84 LB / MMCF	EPA
FORMALDEHYDE	.075 LB / MMCF	EPA
NOX	100 LB / MMCF	EPA
PM	7.6 LB / MMCF	EPA
PM10	7.6 LB / MMCF	EPA
ROG	5.5 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	44,907.240 LB	44,907.240 LB	
NOX (c)	10000 LB	53,461.000 LB	53,461.000 LB	170.370 LB
PM (c)	10000 LB	4,063.036 LB	4,063.036 LB	
PM10 (c)	10000 LB	4,063.036 LB	4,063.036 LB	
ROG (c)	6000 LB	2,940.355 LB	2,940.355 LB	9.370 LB
ARSENIC (c) (fs)	.21 LB	.107 LB	.107 LB	
CADMIUM (c) (fs)	.49 LB	.588 LB	.588 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	40.096 LB	40.096 LB	

--INCOMING STREAMS--

TPUT --> B05-01

--OUTGOING STREAMS--

B05-01 ---(100%)---> S35-01 ---(100%)---> OUT

C10 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: BAGHOUSE FOR P10
CONSTR DATE: 01/01/1992
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%

C10, Process 01 **Used for collectors**

PROCESS NAME: BAGHOUSE FOR P10
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 150 Dys/Yr
QTRLY SCHEDULE: Q1: 58% Q2: 42% Q3: 0% Q4: 0%

--INCOMING STREAMS--

- (100%) --> C10-01

--OUTGOING STREAMS--

C10-01 (100%) --> OUT

C14 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: BAGHOUSE FOR P22 AND P23
CONSTR DATE: 12/01/2006
DEVICE COMMENTS: C14 is actually two baghouses. C14-A serves P22 and C14-B serves P23

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%

C14, Process 01 **Used for collectors**

PROCESS NAME: Baghouse Filtration For P22 and P23
PROCESS COMMENTS: get numbers from Garry Gard, sclae house (Robin M)
SCHEDULE: 12 Hrs/Day 6 Dys/Wk 39 Dys/Yr
QTRLY SCHEDULE: Q1: 0% Q2: 0% Q3: 0% Q4: 100%

--INCOMING STREAMS--

P23-01 (100%) --> C14-01
P22-01 (100%) --> C14-01

--OUTGOING STREAMS--

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

C30 **Wet Collection Systems** **Water sprays**

DEVICE DESC: Fermentation Wet Scrubber (Packed Tower)

CONSTR DATE:

DEVICE COMMENTS: Control device that is part of process P205 Ethanol Recovery System. P205 receives emissions from P200, P201, P202, P203 or P204 and consists of C30/C50 and C31.

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%
ROG	98%
ACROLEIN	98%
FORMALDEHYDE	98%
ACETALDEHYDE	98%

C30, Process 01 **Used for collectors**

PROCESS NAME: Fermentation CO2 Scrubbing

PROCESS COMMENTS: C30 removed as control device from 16-RAB-045; is part of ethanol recovery system

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 335 Dys/Yr

QTRLY SCHEDULE: Q1: 26% Q2: 23% Q3: 26% Q4: 25%

--INCOMING STREAMS--

C50-01 (100%) --> C30-01

--OUTGOING STREAMS--

C30-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

C31 **Wet Collection Systems** **Water sprays**

DEVICE DESC: Vent Gas Wet Scrubber (Packed Bed)
CONSTR DATE:
DEVICE COMMENTS: Control device that is part of process P205 Ethanol Recovery System. P205 receives emissions from P200, P201, P202, P203 or P204 and consists of C30/C50 and C31.

C31, Process 01 **Used for collectors**

PROCESS NAME: Vent Gas Scrubbing
PROCESS COMMENTS: C31 removed as control device from 16-RAB-045; is part of ethanol recovery system
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 358 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--OUTGOING STREAMS--

C31-01 ---(100%)---> C50-01

C50-01 ---(100%)---> C30-01

C30-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

C32 **Catalytic or Thermal Oxidation Oxidizer** **Catalytic**

DEVICE DESC: RTO (Regenerative Thermal Oxidizer)
CONSTR DATE:
DEVICE COMMENTS: Emission control device for C31, P49 and P50.

C32, Process 01 **Used for collectors**

PROCESS NAME: RTO #1
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 18 Dys/Yr
QTRLY SCHEDULE: Q1: 27% Q2: 31% Q3: 29% Q4: 13%

--INCOMING STREAMS--

C30-01 (100%) --> C32-01
P49A-01 (100%) --> C32-01
P49B-01 (100%) --> C32-01
P205-01 (100%) --> C32-01
P205-02 (100%) --> C32-01

--OUTGOING STREAMS--

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

C33 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: DDGS Elevator / Loadout Baghouse
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%

C33, Process 01 **Used for collectors**

PROCESS NAME: Baghouse For P54 & P55
PROCESS COMMENTS:
SCHEDULE: 7 Hrs/Day 5 Dys/Wk 257 Dys/Yr
QTRLY SCHEDULE: Q1: 27% Q2: 23% Q3: 26% Q4: 24%

--INCOMING STREAMS--

P54, P55-01 (100%) --> C33-01

--OUTGOING STREAMS--

C33-01 ---(100%)---> S33-01 ---(100%)---> OUT

C34 **Cyclone/Settling Chambers Enclosed** **Process**

DEVICE DESC: Flare For Truck/Rail Loadout Of Denatured Ethanol
CONSTR DATE:
DEVICE COMMENTS: Code should be "FLARE" not "ENCLOSURE". Category is not correct.

--CTRL EFFIC--

POLLUTANT	VALUE
ROG	98%

C34, Process 01 **Used for collectors**

PROCESS NAME: Flare
PROCESS COMMENTS:
SCHEDULE: 7 Hrs/Day 5 Dys/Wk 260 Dys/Yr
QTRLY SCHEDULE: Q1: 34% Q2: 20% Q3: 19% Q4: 27%

--INCOMING STREAMS--

P52, P53-01 (100%) --> C34-01
P52, P53-02 (100%) --> C34-01

--OUTGOING STREAMS--

C34-01 ---(100%)---> S38-01 ---(100%)---> OUT

C35, C36 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: Baghouses For Hammermills Feeding Ethanol Plant
CONSTR DATE:
DEVICE COMMENTS: Consists of two baghouses C35 and C36

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	98%
PM	98%

C35, C36, Process 01 **Used for collectors**

PROCESS NAME: Hammermill baghouses
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 24% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P58-64-01 (100%) --> C35, C36-01

--OUTGOING STREAMS--

C35, C36-01 ---(100%)---> S39-01 ---(100%)---> OUT

C39 **Cyclone/Settling Chambers** **Cyclone**

DEVICE DESC: Multiple Cyclone (w/o flyash injection) following DDGS Dryer
CONSTR DATE:
DEVICE COMMENTS:

C39, Process 01 **Used for collectors**

PROCESS NAME: DDGS Cyclones
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr
QTRLY SCHEDULE: Q1: 27% Q2: 31% Q3: 29% Q4: 13%

--INCOMING STREAMS--

- (100%) --> C39-01

--OUTGOING STREAMS--

C39-01 ---(100%)---> C40-01

C40-01 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

C40 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: DDGS Dryer baghouse
CONSTR DATE:
DEVICE COMMENTS: C39 cyclone precedes C40

C40, Process 01 **Used for collectors**

PROCESS NAME: DDGS dryer baghouse
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 23% Q3: 25% Q4: 26%

--INCOMING STREAMS--
C39-01 (100%) --> C40-01

--OUTGOING STREAMS--

C40-01 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

C41 **Adsorbers** **Absorber**

DEVICE DESC: LEAK DETECTION AND REPAIR PROGRAM
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
ROG	84.69%

C41, Process 01 **Used for collectors**

PROCESS NAME: LEAK DETECTION AND REPAIR PROGRAM
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
F05-01 (100%) --> C41-01

--OUTGOING STREAMS--

C41-01 (100%) --> OUT

C50 **Wet Collection Systems** **Scrubber**

DEVICE DESC: Knock out scrubber
CONSTR DATE:
DEVICE COMMENTS: Control device that is part of process P205 Ethanol Recovery System. P205 receives emissions from P200, P201, P202, P203 or P204 and consists of C30/C50 and C31.

C50, Process 01 **Used for collectors**

PROCESS NAME: Knockout scrubber
PROCESS COMMENTS: C50 removed as control device from 16-RAB-045; is part of ethanol recovery system
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 358 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 23% Q3: 26% Q4: 25%

--INCOMING STREAMS--

C31-01 (100%) --> C50-01
P32-P35-01 (100%) --> C50-01
P90-01 (100%) --> C50-01
P91-01 (100%) --> C50-01

--OUTGOING STREAMS--

C50-01 ---(100%)---> C30-01

C30-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

C53 **Catalytic or Thermal Oxidation Oxidizer** **Thermal**

DEVICE DESC: RTO #3
CONSTR DATE:
DEVICE COMMENTS:

C53, Process 01 **Used for collectors**

PROCESS NAME: RTO 3
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 354 Dys/Yr
QTRLY SCHEDULE: Q1: 27% Q2: 23% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P49C-01 (100%) --> C53-01
P49D-01 (100%) --> C53-01
P49E-01 (100%) --> C53-01
P49F-01 (100%) --> C53-01
C40-01 (100%) --> C53-01
P205-03 (100%) --> C53-01
P49G-01 (100%) --> C53-01

--OUTGOING STREAMS--

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

C54 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: Pit 4 baghouse
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%
PM2PT5	90%

C54, Process 01 **Used for collectors**

PROCESS NAME: Pit 4 baghouse
PROCESS COMMENTS:
SCHEDULE: 10 Hrs/Day 5 Dys/Wk 260 Dys/Yr
QTRLY SCHEDULE: Q1: 21% Q2: 20% Q3: 24% Q4: 35%

--INCOMING STREAMS--

P101-01 (100%) --> C54-01

--OUTGOING STREAMS--

C54-01 ---(100%)---> S47-01 ---(100%)---> OUT

F01 **Miscellaneous** **Loading Station**

DEVICE DESC: Fugitive Emissions from North Grain Receiving/Shipping
CONSTR DATE: 01/01/2000
DEVICE COMMENTS: Fugitive Emissions From Unloading/Loading Grain

F01, Process 01 **Generic Throughput Process**

PROCESS NAME: Fugitive Emissions From North Grain Receiving/Loadout
SCC CODE: 30200553
PROCESS COMMENTS: Not operated in 2017-18. Formerly operated 12 hr./day 6 days a week during harvest (about 30 days/year).

SCHEDULE:	0 Hrs/Day	0 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	0 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	0 TON/HR			
MAX TPUT:	100 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0063 LB / TON	EPA
PM10	.0014 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> F01-01

--OUTGOING STREAMS--

F01-01 (100%) --> OUT

F02 **Miscellaneous** **Loading Station**

DEVICE DESC: Fugitive Emissions from South Grain Receiving
CONSTR DATE: 01/01/2006
DEVICE COMMENTS: Fugitive Emissions - Unloading

F02, Process 01 **Generic Throughput Process**

PROCESS NAME: South Grain Receiving Fugitive Emissions
SCC CODE: 30200606
PROCESS COMMENTS: Fugitive Emissions; after 5/1/2017 all four pits part of P101
SCHEDULE: 10 Hrs/Day 5 Dys/Wk 260 Dys/Yr
QTRLY SCHEDULE: Q1: 21% Q2: 20% Q3: 24% Q4: 35%
ANNUAL TPUT: 536334 TON of PRODUCT - AGRICULTURE
AVG TPUT: 206.28231 TON/HR
MAX TPUT: 840 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0233 LB / TON	STK
PM10	.0233 LB / TON	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	12,496.582 LB	12,496.582 LB	
PM10 (c)	10000 LB	12,496.582 LB	12,496.582 LB	

--INCOMING STREAMS--

TPUT --> F02-01

--OUTGOING STREAMS--

F02-01 (100%) --> OUT

F03 **Miscellaneous** **Material Stockpile**

DEVICE DESC: DDGS STORAGE
CONSTR DATE:
DEVICE COMMENTS:

F03, Process 01 **Generic Throughput Process**

PROCESS NAME: DDGS STORAGE
SCC CODE: 30201799
PROCESS COMMENTS: DDGS conveyor covers and doors in DDGS loading area must be kept closed per air permit requirement.

SCHEDULE:	22 Hrs/Day	7 Dys/Wk	355 Dys/Yr	
QTRLY SCHEDULE:	Q1: 43%	Q2: 20%	Q3: 19%	Q4: 18%
ANNUAL TPUT:	178251 TON	of PRODUCT - FOOD		
AVG TPUT:	22.82343 TON/HR			
MAX TPUT:	100 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
NOX	0 LB / TON	DNR
PM	.0043 LB / TON	MBAL
PM10	.00145 LB / TON	MBAL

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	766.479 LB	766.479 LB	
PM10 (c)	10000 LB	258.464 LB	258.464 LB	

--INCOMING STREAMS--

TPUT --> F03-01

--OUTGOING STREAMS--

F03-01 (100%) --> OUT

F04 **Miscellaneous** **Conveyor**

DEVICE DESC:
CONSTR DATE:
DEVICE COMMENTS:

F04, Process 01 **Generic Throughput Process**

PROCESS NAME: DDGS HANDLING
SCC CODE: 30201799
PROCESS COMMENTS: F04 is misidentified as DDGS Silo in the Operating Permit. The silo (F07) has not been constructed
SCHEDULE: 8 Hrs/Day 5 Dys/Wk 300 Dys/Yr
QTRLY SCHEDULE: Q1: 43% Q2: 20% Q3: 19% Q4: 18%
ANNUAL TPUT: 178251 TON of PRODUCT - FOOD
AVG TPUT: 74.27125 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
NOX	0 LB / TON	DNR
PM	.0043 LB / TON	DNR
PM10	.00145 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	766.479 LB	766.479 LB	
PM10 (c)	10000 LB	258.464 LB	258.464 LB	

--INCOMING STREAMS--

TPUT --> F04-01

--OUTGOING STREAMS--

F04-01 (100%) --> OUT

F05 **Miscellaneous** **Any Device**

DEVICE DESC:
CONSTR DATE:
DEVICE COMMENTS:

F05, Process 01	**Generic Throughput Process**			
PROCESS NAME:	EQUIPMENT LEAKS			
SCC CODE:	30700807			
PROCESS COMMENTS:	Is not a wood product but needed to select it to get hours as the unit of measurement.			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	365 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	8760 HR	of PRODUCT - WOOD		
AVG TPUT:	1 HR/HR			
MAX TPUT:	1 HR/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.00036 LB / HR	MBAL
PM	0 LB / HR	DNR
PM10	0 LB / HR	DNR
ROG	18.61 LB / HR	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
ROG (c)	6000 LB	163,023.600 LB	24,958.913 LB	68.568 LB
ACETALDEHYDE (c) (fs)	404 LB	3.154 LB	3.154 LB	

--INCOMING STREAMS--

TPUT --> F05-01

--OUTGOING STREAMS--

F05-01 ---(100%)---> C41-01

F06 **Miscellaneous** **Any Device**

DEVICE DESC: Road Dust Fugitive Emissions
CONSTR DATE:
DEVICE COMMENTS:

F06, Process 01 **Generic Throughput Process**

PROCESS NAME: Fugitive Dust Emissions From Truck Traffic
SCC CODE: 30502134
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 22% Q2: 21% Q3: 24% Q4: 33%
ANNUAL TPUT: 10696 VMT of PRODUCT - MINERALS
AVG TPUT: 2.44201 VMT/HR
MAX TPUT: 6 VMT/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	1.5 LB / VMT	EPA
PM10	.3 LB / VMT	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	16,044.000 LB	16,044.000 LB	
PM10 (c)	10000 LB	3,208.800 LB	3,208.800 LB	

--INCOMING STREAMS--

TPUT --> F06-01

--OUTGOING STREAMS--

F06-01 (100%) --> OUT

F08 **Miscellaneous** **Mill**

DEVICE DESC: WET CAKE STORAGE FUGITIVE EMISSIONS
CONSTR DATE:
DEVICE COMMENTS:

F08, Process 01 **Generic Throughput Process**

PROCESS NAME: WET CAKE EMISSIONS
SCC CODE: 30125010
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 168 Dys/Yr
QTRLY SCHEDULE: Q1: 23% Q2: 16% Q3: 30% Q4: 31%
ANNUAL TPUT: 24325 TON of PRODUCT - CHEMICAL
AVG TPUT: 6.03323412698 TON/HR
MAX TPUT: 39 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.0000556 LB / TON	DNR
FORMALDEHYDE	.000333 LB / TON	DNR
ROG	.00602 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
ROG (c)	6000 LB	146.437 LB	146.437 LB	.563 LB
ACETALDEHYDE (c) (fs)	404 LB	1.352 LB	1.352 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	8.100 LB	8.100 LB	

--INCOMING STREAMS--

TPUT --> F08-01

--OUTGOING STREAMS--

F08-01 (100%) --> OUT

P01 **Miscellaneous** **Loading Station**

DEVICE DESC: North Truck/Rail GRAIN RECEIVING
CONSTR DATE: 01/01/1999
DEVICE COMMENTS: Truck/Rail Grain Unloading and Loading.

P01, Process 01	Generic Throughput Process			
PROCESS NAME:	North Grain Receiving - Rail unload			
SCC CODE:	30200552			
PROCESS COMMENTS:	no grain received through this process in 2017-18			
SCHEDULE:	9 Hrs/Day	5 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	0 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	0 TON/HR			
MAX TPUT:	168 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0315 LB / TON	EPA
PM10	.00702 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> P01-01

--OUTGOING STREAMS--

P01-01 (100%) --> OUT

P01, Process 02	Generic Throughput Process			
PROCESS NAME:	North Grain Receiving - Truck Loading			
SCC CODE:	30200560			
PROCESS COMMENTS:	no grain received through this process in 2017-18			
SCHEDULE:	9 Hrs/Day	5 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	0 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	0 TON/HR			
MAX TPUT:	168 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0774 LB / TON	EPA
PM10	.0261 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> P01-02

--OUTGOING STREAMS--

P01-02 (100%) --> OUT

P08 **Miscellaneous** **Loading Station**

DEVICE DESC: MILL TRUCK BULK LOADOUT
CONSTR DATE: 01/01/1999
DEVICE COMMENTS:

P08, Process 01	**Generic Throughput Process**			
PROCESS NAME:	Milled Grain Load and Unload - Truck and Rail			
SCC CODE:	30200560			
PROCESS COMMENTS:	this process ceased operation in May 2017			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	150 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	0 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	0 TON/HR			
MAX TPUT:	10 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.8 LB / TON	DNR
PM10	.8 LB / TON	DNR

--INCOMING STREAMS--

TPUT --> P08-01

--OUTGOING STREAMS--

P08-01 (100%) --> OUT

P101 **Miscellaneous** **Any Device**

DEVICE DESC: Pit 4 and leg
CONSTR DATE:
DEVICE COMMENTS:

P101, Process 01 **Generic Throughput Process**

PROCESS NAME: Pit 4 and leg
SCC CODE: 30200501
PROCESS COMMENTS: with permit 16-RAB-045, this process encompasses all four pits
SCHEDULE: 10 Hrs/Day 6 Dys/Wk 260 Dys/Yr
QTRLY SCHEDULE: Q1: 21% Q2: 20% Q3: 24% Q4: 35%
ANNUAL TPUT: 536334 TON of PRODUCT - AGRICULTURE
AVG TPUT: 206.28231 TON/HR
MAX TPUT: 840 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.035 LB / TON	EPA
PM10	.0078 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	18,771.690 LB	187.717 LB	
PM10 (c)	10000 LB	4,183.405 LB	41.834 LB	

--INCOMING STREAMS--

TPUT --> P101-01

--OUTGOING STREAMS--

P101-01 ---(100%)---> C54-01

C54-01 ---(100%)---> S47-01 ---(100%)---> OUT

P11 **Miscellaneous** **Any Device**

DEVICE DESC: Grain Milling Exhausting To The North Filters (C11)
CONSTR DATE: 01/01/1999
DEVICE COMMENTS: Add P12N to the device ID. Emissions from P10 and P12N both exhaust to the North Filters.

P11, Process 01	**Generic Throughput Process**			
PROCESS NAME:	Grain Milling Exhausting To The North Filters			
SCC CODE:	30200502			
PROCESS COMMENTS:	Process and stack no longer exists after 2017 and has been removed from Operating Permit			
SCHEDULE:	0 Hrs/Day	0 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	0 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	0 TON/HR			
MAX TPUT:	44.18 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	3.6383 LB / TON	STK
PM10	3.6383 LB / TON	STK

--INCOMING STREAMS--

TPUT --> P11-01

--OUTGOING STREAMS--

P11-01 (100%) --> OUT

P16 **Miscellaneous** **Any Device**

DEVICE DESC: Grain Dryer
CONSTR DATE: 01/01/2006
DEVICE COMMENTS: Grain Dryer With A Natural Gas Fired Burner 19.34 MMBtu/hr

P16, Process 01 **Generic Throughput Process**

PROCESS NAME: Grain Drying
SCC CODE: 30200742
PROCESS COMMENTS:
SCHEDULE: 18 Hrs/Day 7 Dys/Wk 35 Dys/Yr
QTRLY SCHEDULE: Q1: 0% Q2: 0% Q3: 0% Q4: 100%
ANNUAL TPUT: 30391 TON of PRODUCT - AGRICULTURE
AVG TPUT: 58.22031 TON/HR
MAX TPUT: 84 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.00000786 LB / TON	DNR
FORMALDEHYDE	.00001143 LB / TON	DNR
PM	.382 LB / TON	STK
PM10	.115 LB / TON	STK
ROG	.016 LB / TON	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	11,609.362 LB	11,609.362 LB	
PM10 (c)	10000 LB	3,494.965 LB	3,494.965 LB	
ROG (c)	6000 LB	486.256 LB	486.256 LB	.000 LB
ACETALDEHYDE (c) (fs)	404 LB	.239 LB	.239 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	.347 LB	.347 LB	

--INCOMING STREAMS--

TPUT --> P16-01

--OUTGOING STREAMS--

P16-01 ---(100%)---> S23-01 ---(100%)---> OUT

P16A **Boiler/Furnace** **Drying Equipment**

DEVICE DESC: Natural Gas
CONSTR DATE:
DEVICE COMMENTS: Grain Dryer With A Natural Gas Fired Burner 19.34 MMBtu/hr
MAX RATED CAPACITY: MMBTU/HR

P16A, Process 01	Generic Throughput Process			
PROCESS NAME:	Grain Dryer - Natural Gas Combustion			
SCC CODE:	10100602			
PROCESS COMMENTS:	PM, PM10 and ROG emissions from natural gas combustion are accounted for in P16-01.			
SCHEDULE:	19 Hrs/Day	7 Dys/Wk	35 Dys/Yr	
QTRLY SCHEDULE:	Q1: 0%	Q2: 0%	Q3: 0%	Q4: 100%
ANNUAL TPUT:	6.18 MMCF	of Natural Gas		
AVG TPUT:	9.29323 E3 FT3/H			
MAX TPUT:	19.34 E3 FT3/H			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.0152 LB / MMCF	EPA
ARSENIC	.0002 LB / MMCF	EPA
CADMIUM	.0011 LB / MMCF	EPA
CO	84 LB / MMCF	EPA
FORMALDEHYDE	.075 LB / MMCF	EPA
NOX	100 LB / MMCF	EPA
PM	7.6 LB / MMCF	STK
PM10	7.6 LB / MMCF	STK
ROG	5.5 LB / MMCF	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	519.120 LB	519.120 LB	
NOX (c)	10000 LB	618.000 LB	618.000 LB	.000 LB
PM (c)	10000 LB	46.968 LB	46.968 LB	
PM10 (c)	10000 LB	46.968 LB	46.968 LB	
ROG (c)	6000 LB	33.990 LB	33.990 LB	.000 LB
ACETALDEHYDE (c) (fs)	404 LB	.094 LB	.094 LB	
ARSENIC (c) (fs)	.21 LB	.001 LB	.001 LB	
CADMIUM (c) (fs)	.49 LB	.007 LB	.007 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	.464 LB	.464 LB	

--INCOMING STREAMS--

TPUT --> P16A-01

--OUTGOING STREAMS--

P16A-01 ---(100%)---> S23-01 ---(100%)---> OUT

P205	Miscellaneous	Any Device
DEVICE DESC:	Ethanol Recovery System	
CONSTR DATE:		

DEVICE COMMENTS: P205 receives emissions from P200, P201, P202, P203, P204 and consists of C30/C50 and C31.

P205, Process 01	**Generic Throughput Process**			
PROCESS NAME:	Natural Gas Combustion In RTO 1			
SCC CODE:	30190003			
PROCESS COMMENTS:	Natural gas combusted in RTO#1 (C32) while controlling emissions from the Ethanol Recovery System (P205).P205 receives emissions from P200, P201, P202, P203 or P204 and consists of C30/C50 & C31.			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	347 Dys/Yr	
QTRLY SCHEDULE:	Q1: 24%	Q2: 25%	Q3: 26%	Q4: 25%
ANNUAL TPUT:	16.83 MMCF	of Natural Gas		
AVG TPUT:	2.02089337176 E3 FT3/H			
MAX TPUT:	111 E3 FT3/H			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
NOX	0 LB / MMCF	EPA
PM	0 LB / MMCF	EPA
PM10	0 LB / MMCF	DNR
ROG	0 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY

--INCOMING STREAMS--

TPUT --> P205-01

--OUTGOING STREAMS--

P205-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

P205, Process 02	**Generic Throughput Process**
PROCESS NAME:	Emission from P205 directed to RTO#1 (C32)
SCC CODE:	30700807
PROCESS COMMENTS:	Is not a wood product but needed to select it to get hours as the unit of measurement. P205 receives emissions from P200, P201, P202, P203 or P204 and consists of C30/C50 & C31.

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 347 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 25% Q3: 26% Q4: 25%
ANNUAL TPUT: 8070 HR of PRODUCT - WOOD
AVG TPUT: .96902017291 HR/HR
MAX TPUT: 1 HR/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.153 LB / HR	STK
ACETIC ACID	.574 LB / HR	STK
CO	.02 LB / HR	STK
FURFURAL	.33 LB / HR	STK
NOX	.12 LB / HR	STK
PM	1.24 LB / HR	STK
PM10	1.24 LB / HR	STK
ROG	.12 LB / HR	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	161.400 LB	161.400 LB	
NOX (c)	10000 LB	968.400 LB	968.400 LB	2.767 LB
PM (c)	10000 LB	10,006.800 LB	10,006.800 LB	
PM10 (c)	10000 LB	10,006.800 LB	10,006.800 LB	
ROG (c)	6000 LB	968.400 LB	968.400 LB	2.767 LB
ACETALDEHYDE (c) (fs)	404 LB	1,234.710 LB	1,234.710 LB	
ACETIC ACID (c) (s)	5774 LB	4,632.180 LB	4,632.180 LB	
FURFURAL (c) (s)	1849 LB	2,663.100 LB	2,663.100 LB	

--INCOMING STREAMS--

TPUT --> P205-02

--OUTGOING STREAMS--

P205-02 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

P205, Process 03 **Generic Throughput Process**

PROCESS NAME: Emission from P205 only directed to RTO#3 (C53)
SCC CODE: 30700807
PROCESS COMMENTS: Is not a wood product but needed to select it to get hours as the unit of measurement. P205 receives emissions from P200, P201, P202, P203 or P204 and consists of C30/C50 & C31.
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 18 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

ANNUAL TPUT: 433 HR of PRODUCT - WOOD

AVG TPUT: 0 HR/HR

MAX TPUT: 1 HR/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.118 LB / HR	MBAL
ACETIC ACID	.217 LB / HR	MBAL
CO	.37 LB / HR	MBAL
FORMALDEHYDE	.199 LB / HR	STK
FURFURAL	.019 LB / HR	MBAL
NOX	.33 LB / HR	MBAL
PM	1.59 LB / HR	MBAL
PM10	1.59 LB / HR	MBAL
ROG	4.75 LB / HR	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	160.210 LB	160.210 LB	
NOX (c)	10000 LB	142.890 LB	142.890 LB	.393 LB
PM (c)	10000 LB	688.470 LB	688.470 LB	
PM10 (c)	10000 LB	688.470 LB	688.470 LB	
ROG (c)	6000 LB	2,056.750 LB	2,056.750 LB	5.650 LB
ACETALDEHYDE (c) (fs)	404 LB	51.094 LB	51.094 LB	
ACETIC ACID (c) (s)	5774 LB	93.961 LB	93.961 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	86.167 LB	86.167 LB	
FURFURAL (c) (s)	1849 LB	8.227 LB	8.227 LB	

--INCOMING STREAMS--

TPUT --> P205-03

--OUTGOING STREAMS--

P205-03 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

P22 **Miscellaneous** **Any Device**

DEVICE DESC: GRAIN STORAGE AND HANDLING
CONSTR DATE: 01/01/1999
DEVICE COMMENTS: pneumatic conveying, discharge to filter

P22, Process 01 **Generic Throughput Process**

PROCESS NAME: Grain Silo Storage ^ Handling
SCC CODE: 30200530
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 6 Dys/Wk 39 Dys/Yr
QTRLY SCHEDULE: Q1: 0% Q2: 0% Q3: 0% Q4: 100%
ANNUAL TPUT: 25433 TON of PRODUCT - AGRICULTURE
AVG TPUT: 54.34401709402 TON/HR
MAX TPUT: 292 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.3169 LB / TON	MBAL
PM10	.3169 LB / TON	MBAL

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	8,059.718 LB	80.597 LB	
PM10 (c)	10000 LB	8,059.718 LB	80.597 LB	

--INCOMING STREAMS--

TPUT --> P22-01

--OUTGOING STREAMS--

P22-01 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P23 **Miscellaneous** **Any Device**

DEVICE DESC: GRAIN STORAGE AND HANDLING
CONSTR DATE: 01/01/2006
DEVICE COMMENTS:

P23, Process 01	**Generic Throughput Process**			
PROCESS NAME:	Product Silo Storage ^ Handling			
SCC CODE:	30200530			
PROCESS COMMENTS:	Milled Grain Product			
SCHEDULE:	24 Hrs/Day	6 Dys/Wk	20 Dys/Yr	
QTRLY SCHEDULE:	Q1: 0%	Q2: 0%	Q3: 0%	Q4: 100%
ANNUAL TPUT:	24146 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	50.30416666667 TON/HR			
MAX TPUT:	70 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.3278 LB / TON	MBAL
PM10	.3278 LB / TON	MBAL

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	7,915.059 LB	79.151 LB	
PM10 (c)	10000 LB	7,915.059 LB	79.151 LB	

--INCOMING STREAMS--

TPUT --> P23-01

--OUTGOING STREAMS--

P23-01 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P32-P35 **Miscellaneous** **Any Device**

DEVICE DESC: Fermentation Tanks 1 through 3, Beerwell (P-35) and Yeast Propagation (P-88)

CONSTR DATE:

DEVICE COMMENTS: P32-P34, P35 and P88

P32-P35, Process 01 **Generic Throughput Process**

PROCESS NAME: Fermentation Tanks, Beerwell and Yeast Propagation

SCC CODE: 30125010

PROCESS COMMENTS: The emissions from all processes (P200, P201, P202, P203 and P204) exhausting into P205 (C30/C50 and C31) are accounted for in P205-02 and P205-03. Throughput is tons of 200 proof ethanol produced.

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 358 Dys/Yr

QTRLY SCHEDULE: Q1: 26% Q2: 23% Q3: 26% Q4: 25%

ANNUAL TPUT: 132475 TON of PRODUCT - CHEMICAL

AVG TPUT: 15.41841 TON/HR

MAX TPUT: 22.548 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ROG	0 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> P32-P35-01

--OUTGOING STREAMS--

P32-P35-01 ---(100%)---> C50-01

C50-01 ---(100%)---> C30-01

C30-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

P49C **Miscellaneous** **Any Device**

DEVICE DESC: DDG dryer Natural gas going to RTO 3
CONSTR DATE:
DEVICE COMMENTS: Natural gas for DDG dryer is split between P49A going to RTO1 and P49C going to RTO3

P49C, Process 01 **Generic Throughput Process**

PROCESS NAME: DDG Dryer Natural Gas Combustion Directed To RTO#3
SCC CODE: 30190003
PROCESS COMMENTS: DDG Dryer natural gas combustion emissions can only be directed to RTO#3, not RTO#1.
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 358 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 24% Q3: 25% Q4: 25%
ANNUAL TPUT: 409 MMCF of Natural Gas
AVG TPUT: 47.60242085661 E3 FT3/H
MAX TPUT: 111 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
CO	0 LB / MMCF	EPA
NOX	0 LB / MMCF	EPA
PM	0 LB / MMCF	EPA
PM10	0 LB / MMCF	EPA
ROG	0 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY

--INCOMING STREAMS--

TPUT --> P49C-01

--OUTGOING STREAMS--

P49C-01 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

P49D **Miscellaneous** **Any Device**

DEVICE DESC: DDGS dryer + scrubber to RTO 3 (C53)
CONSTR DATE:
DEVICE COMMENTS:

P49D, Process 01	Generic Throughput Process			
PROCESS NAME:	DDGS dryer + Ethanol Recovery System (P205) emissions directed to RTO #3 (C53)			
SCC CODE:	30700807			
PROCESS COMMENTS:	Is not a wood product, but needed to select it to get hrs units. Emissions directed to RTO#3.			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	2 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	26 HR	of PRODUCT - WOOD		
AVG TPUT:	.54166666667 HR/HR			
MAX TPUT:	1 HR/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.413 LB / HR	STK
ACETIC ACID	1.721 LB / HR	STK
CO	2.63 LB / HR	STK
FORMALDEHYDE	.18 LB / HR	STK
FURFURAL	.124 LB / HR	STK
NOX	11.01 LB / HR	STK
PM	2.39 LB / HR	STK
PM10	2.39 LB / HR	STK
ROG	4.56 LB / HR	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	68.380 LB	68.380 LB	
NOX (c)	10000 LB	286.260 LB	286.260 LB	.786 LB
PM (c)	10000 LB	62.140 LB	62.140 LB	
PM10 (c)	10000 LB	62.140 LB	62.140 LB	
ROG (c)	6000 LB	118.560 LB	118.560 LB	.326 LB
ACETALDEHYDE (c) (fs)	404 LB	10.738 LB	10.738 LB	
ACETIC ACID (c) (s)	5774 LB	44.746 LB	44.746 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	4.680 LB	4.680 LB	
FURFURAL (c) (s)	1849 LB	3.224 LB	3.224 LB	

--INCOMING STREAMS--

TPUT --> P49D-01

--OUTGOING STREAMS--

P49D-01 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

P49F **Miscellaneous** **Any Device Group**

DEVICE DESC: RTO 3 (natural gas combustion)
CONSTR DATE:
DEVICE COMMENTS:

P49F, Process 01 **Generic Throughput Process**

PROCESS NAME: RTO #3 Natural Gas Combustion
SCC CODE: 30190003
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 358 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 24% Q3: 25% Q4: 25%
ANNUAL TPUT: 7.03 MMCF of Natural Gas
AVG TPUT: .81820297952 E3 FT3/H
MAX TPUT: 0 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
CO	.00001 LB / MMCF	DNR
NOX	0 LB / MMCF	EPA
PM	0 LB / MMCF	EPA
PM10	0 LB / MMCF	DNR
ROG	0 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	.000 LB	.000 LB	

--INCOMING STREAMS--

TPUT --> P49F-01

--OUTGOING STREAMS--

P49F-01 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

P49G **Miscellaneous** **Any Device**

DEVICE DESC: DDGS Dryer Directed To RTO 3 (no scrubbers)
CONSTR DATE:
DEVICE COMMENTS:

P49G, Process 01 **Generic Throughput Process**

PROCESS NAME: DDGS Dryer (P49) emissions directed to RTO#3 (C53)
SCC CODE: 30700807

PROCESS COMMENTS: Emissions from only the DDGS Dryer (P49) directed to RTO#3 (C53), no scrubber emissions. Is not a wood product but needed to select it to get hours as the unit of measurement.

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr

QTRLY SCHEDULE: Q1: 26% Q2: 24% Q3: 25% Q4: 25%

ANNUAL TPUT: 8070 HR of PRODUCT - WOOD

AVG TPUT: .94452247191 HR/HR

MAX TPUT: 1 HR/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ACETALDEHYDE	.295 LB / HR	STK
ACETIC ACID	1.504 LB / HR	STK
CO	2.26 LB / HR	STK
FORMALDEHYDE	.199 LB / HR	STK
FURFURAL	.105 LB / HR	STK
NOX	10.68 LB / HR	STK
PM	.8 LB / HR	STK
PM10	.8 LB / HR	STK
ROG	4.75 LB / HR	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	18,238.200 LB	18,238.200 LB	
NOX (c)	10000 LB	86,187.600 LB	86,187.600 LB	236.779 LB
PM (c)	10000 LB	6,456.000 LB	6,456.000 LB	
PM10 (c)	10000 LB	6,456.000 LB	6,456.000 LB	
ROG (c)	6000 LB	38,332.500 LB	38,332.500 LB	105.309 LB
ACETALDEHYDE (c) (fs)	404 LB	2,380.650 LB	2,380.650 LB	
ACETIC ACID (c) (s)	5774 LB	12,137.280 LB	12,137.280 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	1,605.930 LB	1,605.930 LB	
FURFURAL (c) (s)	1849 LB	847.350 LB	847.350 LB	

--INCOMING STREAMS--

TPUT --> P49G-01

--OUTGOING STREAMS--

P49G-01 ---(100%)---> C53-01

C53-01 ---(100%)---> S46-01 ---(100%)---> OUT

P52, P53 **Miscellaneous** **Any Device**

DEVICE DESC: Denatured Ethanol Loadout (truck, rail)

CONSTR DATE:

DEVICE COMMENTS:

P52, P53, Process 01	**Generic Throughput Process**			
PROCESS NAME:	Natural Gas Assist Combustion			
SCC CODE:	30190003			
PROCESS COMMENTS:	Denatured ethanol loadout (truck, rail)			
SCHEDULE:	7 Hrs/Day	5 Dys/Wk	250 Dys/Yr	
QTRLY SCHEDULE:	Q1: 27%	Q2: 23%	Q3: 26%	Q4: 24%
ANNUAL TPUT:	.16 E3 FT3	of Natural Gas		
AVG TPUT:	.09143 FT3/HR			
MAX TPUT:	68 FT3/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
CO	.75 LB / MMCF	EPA
NOX	140 LB / MMCF	EPA
PM	7.6 LB / MMCF	EPA
PM10	7.6 LB / MMCF	DNR
ROG	2.8 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	.000 LB	.000 LB	
NOX (c)	10000 LB	.022 LB	.022 LB	.000 LB
PM (c)	10000 LB	.001 LB	.001 LB	
PM10 (c)	10000 LB	.001 LB	.001 LB	
ROG (c)	6000 LB	.000 LB	.000 LB	.000 LB

--INCOMING STREAMS--

TPUT --> P52, P53-01

--OUTGOING STREAMS--

P52, P53-01 ---(100%)---> C34-01

C34-01 ---(100%)---> S38-01 ---(100%)---> OUT

P52, P53, Process 02	**Generic Throughput Process**			
PROCESS NAME:	Displaced vapors from rail cars & trucks			
SCC CODE:	30600701			
PROCESS COMMENTS:				
SCHEDULE:	7 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE:	Q1: 27%	Q2: 23%	Q3: 26%	Q4: 24%
ANNUAL TPUT:	55228803 GAL	of PRODUCT - PETROLEUM DERIVED		
AVG TPUT:	30345.49615 GAL/HR			

MAX TPUT: 60000 GAL/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
NOX	0 LB / GAL	DNR
ROG	.0066065 LB / GAL	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
ROG (c)	6000 LB	364,869.087 LB	7,297.382 LB	29.190 LB

--INCOMING STREAMS--

TPUT --> P52, P53-02

--OUTGOING STREAMS--

P52, P53-02 ---(100%)---> C34-01

C34-01 ---(100%)---> S38-01 ---(100%)---> OUT

P54, P55 **Miscellaneous** **Any Device**

DEVICE DESC: DDGS Elevator, Loadout
CONSTR DATE:
DEVICE COMMENTS:

P54, P55, Process 01 **Generic Throughput Process**

PROCESS NAME: DDGS Loadout - Truck
SCC CODE: 30200560
PROCESS COMMENTS:
SCHEDULE: 7 Hrs/Day 5 Dys/Wk 257 Dys/Yr
QTRLY SCHEDULE: Q1: 27% Q2: 23% Q3: 26% Q4: 24%
ANNUAL TPUT: 127840 TON of PRODUCT - AGRICULTURE
AVG TPUT: 71.0617 TON/HR
MAX TPUT: 98 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.4831 LB / TON	DNR
PM10	.4831 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	61,759.504 LB	617.595 LB	
PM10 (c)	10000 LB	61,759.504 LB	617.595 LB	

--INCOMING STREAMS--

TPUT --> P54, P55-01

--OUTGOING STREAMS--

P54, P55-01 ---(100%)---> C33-01

C33-01 ---(100%)---> S33-01 ---(100%)---> OUT

P56,P57 **Miscellaneous** **Cooling Tower**

DEVICE DESC: COOLING TOWERS
CONSTR DATE:
DEVICE COMMENTS: TWO COOLING TOWERS, EACH WITH FOUR EXHAUST FANS FOR A TOTAL OF 8 EXHAUST FANS

P56,P57, Process 01	**Generic Throughput Process**			
PROCESS NAME:	COOLING TOWER			
SCC CODE:	30700808			
PROCESS COMMENTS:	TWO COOLING TOWERS, EACH WITH FOUR EXHAUST FANS FOR A TOTAL OF 8 EXHAUST FANS			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	357 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	8592 HR	of PRODUCT - WOOD		
AVG TPUT:	1.0028 HR/HR			
MAX TPUT:	1.02 HR/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	2 LB / HR	EPA
PM10	.8 LB / HR	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	17,184.000 LB	17,184.000 LB	
PM10 (c)	10000 LB	6,873.600 LB	6,873.600 LB	

--INCOMING STREAMS--

TPUT --> P56,P57-01

--OUTGOING STREAMS--

P56,P57-01 ---(100%)---> S37-01 ---(100%)---> OUT

P58-64 **Miscellaneous** **Mill**

DEVICE DESC: Hammermills Feeding Ethanol Plant
CONSTR DATE:
DEVICE COMMENTS:

P58-64, Process 01	**Generic Throughput Process**			
PROCESS NAME:	Hammermills Feeding Ethanol Plant			
SCC CODE:	30200805			
PROCESS COMMENTS:	Note max use increase permit 10-DCF-120-R1			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	356 Dys/Yr	
QTRLY SCHEDULE:	Q1: 26%	Q2: 24%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	521666 TON	of PRODUCT - AGRICULTURE		
AVG TPUT:	61.05641 TON/HR			
MAX TPUT:	64.86 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.3291 LB / TON	STK
PM10	.3291 LB / TON	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	171,680.281 LB	3,433.606 LB	
PM10 (c)	10000 LB	171,680.281 LB	3,433.606 LB	

--INCOMING STREAMS--

TPUT --> P58-64-01

--OUTGOING STREAMS--

P58-64-01 ---(100%)---> C35, C36-01

C35, C36-01 ---(100%)---> S39-01 ---(100%)---> OUT

P90 **Miscellaneous** **Any Device**

DEVICE DESC: Fermenter 6
CONSTR DATE:
DEVICE COMMENTS:

P90, Process 01 **Generic Throughput Process**

PROCESS NAME: Fermenter 6
SCC CODE: 30125010
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 335 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 23% Q3: 26% Q4: 25%
ANNUAL TPUT: 3959 TON of PRODUCT - CHEMICAL
AVG TPUT: 5.48395522388 TON/HR
MAX TPUT: 7.5 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ROG	0 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> P90-01

--OUTGOING STREAMS--

P90-01 ---(100%)---> C50-01

C50-01 ---(100%)---> C30-01

C30-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

P91 **Miscellaneous** **Any Device**

DEVICE DESC: Fermenter 7
CONSTR DATE:
DEVICE COMMENTS:

P91, Process 01 **Generic Throughput Process**

PROCESS NAME: Ferm 7
SCC CODE: 30125010
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 356 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 23% Q3: 26% Q4: 25%
ANNUAL TPUT: 2898 TON of PRODUCT - CHEMICAL
AVG TPUT: .33919 TON/HR
MAX TPUT: 4.6 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ROG	0 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> P91-01

--OUTGOING STREAMS--

P91-01 ---(100%)---> C50-01

C50-01 ---(100%)---> C30-01

C30-01 ---(100%)---> C32-01

C32-01 ---(100%)---> S32-01 ---(100%)---> OUT

P99 **Miscellaneous** **Cooling Tower**

DEVICE DESC: 2011 Cooling Tower SE corner
CONSTR DATE:
DEVICE COMMENTS:

P99, Process 01 **Generic Throughput Process**

PROCESS NAME: Tower drift
SCC CODE: 30700808
PROCESS COMMENTS: Material is not wood. Emissions in pounds per hour operation
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 361 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 8592 HR of PRODUCT - WOOD
AVG TPUT: .99169 HR/HR
MAX TPUT: 8760 HR/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.5 LB / HR	EPA
PM10	.5 LB / HR	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	4,296.000 LB	4,296.000 LB	
PM10 (c)	10000 LB	4,296.000 LB	4,296.000 LB	

--INCOMING STREAMS--

TPUT --> P99-01

--OUTGOING STREAMS--

P99-01 ---(100%)---> S42-01 ---(100%)---> OUT

S01 **Stack** **Stack**

DEVICE DESC: North Truck/Rail Unload Filter Stack - Grain Receiving
CONSTR DATE: 01/01/1999
DEVICE COMMENTS:
STACK HEIGHT: 15.62 m or 51.25 ft
STACK DIAMETER: .49 m or 1.61 ft
STACK TEMP: 250 K or -9.67 F
STACK VELOCITY: 5.51 m/s or 18.08 ft/s

S01, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: NORTH TRUCK/RAIL STACK
PROCESS COMMENTS:
SCHEDULE: 0 Hrs/Day 0 Dys/Wk 0 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

- (100%) --> S01-01

--OUTGOING STREAMS--

S01-01 (100%) --> OUT

S12 **Stack** **Stack**

DEVICE DESC: STACK FOR P12
CONSTR DATE: 01/01/1999
DEVICE COMMENTS:
STACK HEIGHT: 29.25 m or 95.96 ft
STACK DIAMETER: .3 m or .98 ft
STACK TEMP: 295.3 K or 71.87 F
STACK VELOCITY: 21.36 m/s or 70.08 ft/s

S12, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: C12 Stack
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 200 Dys/Yr
QTRLY SCHEDULE: Q1: % Q2: % Q3: % Q4: %

--OUTGOING STREAMS--

S12-01 (100%) --> OUT

S14	**Stack**	**Stack**	
DEVICE DESC:	Product Storage (Silos) and Transfer Baghouse Filter Stack		
CONSTR DATE:	01/01/1999		
DEVICE COMMENTS:			
STACK HEIGHT:	42.7 m		or 140.09 ft
STACK DIAMETER:	.32 m		or 1.05 ft
STACK TEMP:	305 K		or 89.33 F
STACK VELOCITY:	18.06 m/s		or 59.25 ft/s

S14, Process 01	**Releasing/Discharging material to the atmosphere**			
PROCESS NAME:	C14 Stack			
PROCESS COMMENTS:				
SCHEDULE:	12 Hrs/Day	6 Dys/Wk	39 Dys/Yr	
QTRLY SCHEDULE:	Q1: 0%	Q2: 0%	Q3: 0%	Q4: 100%

--INCOMING STREAMS--

C14-01 (100%) --> S14-01

--OUTGOING STREAMS--

S14-01 (100%) --> OUT

S17	Stack	Stack	
DEVICE DESC:	STACK FOR P15		
CONSTR DATE:	01/01/2006		
DEVICE COMMENTS:			
STACK HEIGHT:	35.1 m		or 115.16 ft
STACK DIAMETER:	.51 m		or 1.67 ft
STACK TEMP:	250 K		or -9.67 F
STACK VELOCITY:	16.77 m/s		or 55.02 ft/s

S17, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:	C17 Stack			
PROCESS COMMENTS:	Source destroyed in May 31, 2017 catastrophic incident			
SCHEDULE:	0 Hrs/Day	0 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

- (100%) --> S17-01

--OUTGOING STREAMS--

S17-01 (100%) --> OUT

S23	**Stack**	**Stack**	
DEVICE DESC:	Grain Dryer stack		
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	50.9 m		or 166.99 ft
STACK DIAMETER:	2.44 m		or 8.01 ft
STACK TEMP:	306.6 K		or 92.21 F
STACK VELOCITY:	18.01 m/s		or 59.09 ft/s

S23, Process 01	**Releasing/Discharging material to the atmosphere**			
PROCESS NAME:	GRAIN DRYER STACK			
PROCESS COMMENTS:				
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	35 Dys/Yr	
QTRLY SCHEDULE:	Q1: 0%	Q2: 0%	Q3: 0%	Q4: 100%

--INCOMING STREAMS--

P16-01 (100%) --> S23-01

P16A-01 (100%) --> S23-01

--OUTGOING STREAMS--

S23-01 (100%) --> OUT

S32 **Stack** **Stack**

DEVICE DESC: DDGS Dryer / RTO Stack
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 36.6 m or 120.08 ft
STACK DIAMETER: 1.52 m or 4.99 ft
STACK TEMP: 429.82 K or 314.01 F
STACK VELOCITY: 16.52 m/s or 54.2 ft/s

S32, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: DDGS DRYER/RTO STACK
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 355 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

C32-01 (100%) --> S32-01

--OUTGOING STREAMS--

S32-01 (100%) --> OUT

S32, Process 02 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: RTO Exhaust
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 355 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--OUTGOING STREAMS--

S32-02 (100%) --> OUT

S33 **Stack** **Stack**

DEVICE DESC: DDGS Baghouse Stack
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 18.3 m or 60.04 ft
STACK DIAMETER: .4 m or 1.31 ft
STACK TEMP: 299.8 K or 79.97 F
STACK VELOCITY: 7.17 m/s or 23.52 ft/s

S33, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: DDGS Baghouse Exhaust Stack
PROCESS COMMENTS:
SCHEDULE: 7 Hrs/Day 5 Dys/Wk 257 Dys/Yr
QTRLY SCHEDULE: Q1: 27% Q2: 23% Q3: 26% Q4: 24%

--INCOMING STREAMS--
C33-01 (100%) --> S33-01

--OUTGOING STREAMS--

S33-01 (100%) --> OUT

S34 **Stack** **Stack**

DEVICE DESC: Boiler B04 (92.05 MMBTU/hr) Stack - North
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 18.3 m or 60.04 ft
STACK DIAMETER: .91 m or 2.99 ft
STACK TEMP: 422.2 K or 300.29 F
STACK VELOCITY: 22.23 m/s or 72.93 ft/s

S34, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Boiler #4 Stack North
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 355 Dys/Yr
QTRLY SCHEDULE: Q1: 26% Q2: 27% Q3: 25% Q4: 22%

--INCOMING STREAMS--
B04-01 (100%) --> S34-01

--OUTGOING STREAMS--

S34-01 (100%) --> OUT

S35 **Stack** **Stack**

DEVICE DESC: Boiler B05 (92.05 MMBTU/hr) Stack - South
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 18.3 m or 60.04 ft
STACK DIAMETER: .91 m or 2.99 ft
STACK TEMP: 422.2 K or 300.29 F
STACK VELOCITY: 22.23 m/s or 72.93 ft/s

S35, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Boiler #5 Stack South
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 355 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 18% Q3: 29% Q4: 29%

--INCOMING STREAMS--

B05-01 (100%) --> S35-01

--OUTGOING STREAMS--

S35-01 (100%) --> OUT

S37	**Stack**	**Stack**	
DEVICE DESC:	Cooling Tower Stacks		
CONSTR DATE:			
DEVICE COMMENTS:	Stack parameters are for each cooling tower stack.		
STACK HEIGHT:	10.4 m		or 34.12 ft
STACK DIAMETER:	2.44 m		or 8.01 ft
STACK TEMP:	K		or F
STACK VELOCITY:	15.11 m/s		or 49.57 ft/s

S37, Process 01	**Releasing/Discharging material to the atmosphere**			
PROCESS NAME:	STACK FOR COOLING TOWERS			
PROCESS COMMENTS:				
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	360 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

P56,P57-01 (100%) --> S37-01

--OUTGOING STREAMS--

S37-01 (100%) --> OUT

S38	Stack	Stack	
DEVICE DESC:	Flare Stack		
CONSTR DATE:	01/15/2007		
DEVICE COMMENTS:			
STACK HEIGHT:	13.7 m		or 44.95 ft
STACK DIAMETER:	.08 m		or .26 ft
STACK TEMP:	1273 K		or 1831.73 F
STACK VELOCITY:	20 m/s		or 65.62 ft/s

S38, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:	Flare Exhaust Stack			
PROCESS COMMENTS:				
SCHEDULE:	7 Hrs/Day	5 Dys/Wk	250 Dys/Yr	
QTRLY SCHEDULE:	Q1: 33%	Q2: 20%	Q3: 19%	Q4: 28%

--INCOMING STREAMS--

C34-01 (100%) --> S38-01

--OUTGOING STREAMS--

S38-01 (100%) --> OUT

S39	Stack	Stack	
DEVICE DESC:	Stack for filters servicing the hammermills		
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	41.3 m		or 135.5 ft
STACK DIAMETER:	.46 m		or 1.51 ft
STACK TEMP:	305 K		or 89.33 F
STACK VELOCITY:	32.41 m/s		or 106.33 ft/s

S39, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:	STACK FOR NEW HAMMERMILL BAGHOUSES			
PROCESS COMMENTS:				
SCHEDULE:	23 Hrs/Day	7 Dys/Wk	350 Dys/Yr	
QTRLY SCHEDULE:	Q1: 26%	Q2: 24%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C35, C36-01 (100%) --> S39-01

--OUTGOING STREAMS--

S39-01 (100%) --> OUT

S42 **Stack** **Stack**

DEVICE DESC: 2011 Cooling Tower SE corner
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 10 m or 32.81 ft
STACK DIAMETER: 3.3 m or 10.83 ft
STACK TEMP: 293.15 K or 68 F
STACK VELOCITY: 9.4 m/s or 30.84 ft/s

S42, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME:
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P99-01 (100%) --> S42-01

--OUTGOING STREAMS--

S42-01 (100%) --> OUT

S46 **Stack** **Stack**

DEVICE DESC: RTO 3
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 36.59 m or 120.04 ft
STACK DIAMETER: 1.83 m or 6 ft
STACK TEMP: 429.82 K or 314.01 F
STACK VELOCITY: 11.68 m/s or 38.32 ft/s

S46, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME:
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 354 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
C53-01 (100%) --> S46-01

--OUTGOING STREAMS--

S46-01 (100%) --> OUT

S47	Stack	Stack	
DEVICE DESC:	South grain receiving pit 4		
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	51.82 m		or 170.01 ft
STACK DIAMETER:	.78 m		or 2.56 ft
STACK TEMP:	255.32 K		or -.09 F
STACK VELOCITY:	16.77 m/s		or 55.02 ft/s

S47, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:	Pit 4 stack			
PROCESS COMMENTS:				
SCHEDULE:	10 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE:	Q1: 21%	Q2: 20%	Q3: 24%	Q4: 35%

--INCOMING STREAMS--

C54-01 (100%) --> S47-01

--OUTGOING STREAMS--

S47-01 (100%) --> OUT

T01, T02 **Storage Tank** **Fixed Roof Tank**

DEVICE DESC: Storage Tanks (200 proof product).
CONSTR DATE:
DEVICE COMMENTS: T01 and T02 are identical tanks each with the same capacity, height and diameter

T01, T02, Process 01 **Tank breathing loss**

PROCESS NAME: Breathing and working loss from tanks T01 and T02)
PROCESS COMMENTS: Breathing and working loss and degassing from ethanol tanks (T01, T02)

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	365 Dys/Yr	
QTRLY SCHEDULE:	Q1: 26%	Q2: 24%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	54515030 GAL	of		
AVG TPUT:	6223.17694 GAL/HR			
MAX TPUT:	6849.315 GAL/HR			

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
ACETALDEHYDE (t) (fs)	404 LB	.260 LB	.260 LB	

--INCOMING STREAMS--

TPUT --> T01, T02-01

--OUTGOING STREAMS--

T01, T02-01 (100%) --> OUT

T01, T02, Process 02 **Loss of vapors from a tank due to inflow/outflow**

PROCESS NAME: Working loss from tanks T01 & T02
PROCESS COMMENTS: No emissions counted here. All working loss emissions counted in T01, T02 - 01

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	365 Dys/Yr	
QTRLY SCHEDULE:	Q1: 26%	Q2: 23%	Q3: 26%	Q4: 25%
ANNUAL TPUT:	54515030 GAL	of		
AVG TPUT:	6223.17694 GAL/HR			
MAX TPUT:	6849.315 GAL/HR			

--INCOMING STREAMS--

TPUT --> T01, T02-02

--OUTGOING STREAMS--

T01, T02-02 (100%) --> OUT

T03 **Storage Tank** **Fixed Roof Tank**

DEVICE DESC: Denaturant (gasoline) storage tank
CONSTR DATE:
DEVICE COMMENTS:

T03, Process 01 **Tank breathing loss**

PROCESS NAME: STORAGE TANK
PROCESS COMMENTS: emissions from degassing denaturant tank T03
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 31% Q2: 35% Q3: 18% Q4: 16%
ANNUAL TPUT: 189501 GAL of
AVG TPUT: 21.63253 GAL/HR
MAX TPUT: 6315 GAL/HR

--INCOMING STREAMS--
TPUT --> T03-01

--OUTGOING STREAMS--

T03-01 (100%) --> OUT

T03, Process 02 **Loss of vapors from a tank due to inflow/outflow**

PROCESS NAME: Denaturant Bulk Storage
PROCESS COMMENTS: emissions from degassing T03 assigned to process T03-01
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 31% Q2: 35% Q3: 18% Q4: 16%
ANNUAL TPUT: 189501 GAL of
AVG TPUT: 21.63253 GAL/HR
MAX TPUT: 6315 GAL/HR

--INCOMING STREAMS--
TPUT --> T03-02

--OUTGOING STREAMS--

T03-02 (100%) --> OUT

T04, T05 **Storage Tank** **Fixed Roof Tank**

DEVICE DESC: Denatured ethanol storage tanks (2)
CONSTR DATE:
DEVICE COMMENTS: T04 and T05 are identical tanks each with the same capacity, height and diameter.

T04, T05, Process 01 **Tank breathing loss**

PROCESS NAME: STORAGE TANK
PROCESS COMMENTS: Degassing emissions from T04 and T05. All other emissions assigned to T01, T02 -01
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 23% Q3: 26% Q4: 26%
ANNUAL TPUT: 4848441 GAL of
AVG TPUT: 553.475 GAL/HR
MAX TPUT: 6849.315 GAL/HR

--INCOMING STREAMS--
TPUT --> T04, T05-01

--OUTGOING STREAMS--

T04, T05-01 (100%) --> OUT

T04, T05, Process 02 **Loss of vapors from a tank due to inflow/outflow**

PROCESS NAME: Denatured Ethanol Bulk Storage
PROCESS COMMENTS: Emissions attributed to T01, T02 process
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 23% Q3: 26% Q4: 26%
ANNUAL TPUT: 4848441 GAL of
AVG TPUT: 553.475 GAL/HR
MAX TPUT: 6849.315 GAL/HR

--INCOMING STREAMS--
TPUT --> T04, T05-02

--OUTGOING STREAMS--

T04, T05-02 (100%) --> OUT

T07 **Storage Tank** **Fixed Roof Tank**

DEVICE DESC: Courtland Bronze Storage Tank
CONSTR DATE:
DEVICE COMMENTS:

T07, Process 01 **Tank breathing loss**

PROCESS NAME: Breathing and working loss from Courtland Bronze Storage Tank T07
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 22% Q3: 28% Q4: 25%
ANNUAL TPUT: 1846508 GAL of
AVG TPUT: 210.78858 GAL/HR
MAX TPUT: 288 GAL/HR

--INCOMING STREAMS--
TPUT --> T07-01

--OUTGOING STREAMS--

T07-01 (100%) --> OUT

T07, Process 02 **Loss of vapors from a tank due to inflow/outflow**

PROCESS NAME: Working loss from load out to tanker trucks
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 365 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 23% Q3: 27% Q4: 25%
ANNUAL TPUT: 163339 GAL of
AVG TPUT: 18.646 GAL/HR
MAX TPUT: 288 GAL/HR

--INCOMING STREAMS--
TPUT --> T07-02

--OUTGOING STREAMS--

T07-02 (100%) --> OUT

FACILITY EMISSIONS SUMMARY

-2018 SUMMARY-	--2018--	--2018--	--2018--	--2018--
--POLLUTANT--	--NR438_THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
CO	10000 LB	110,060.51019 LB	110,060.51019 LB	
NOX	10000 LB	196,433.17240 LB	196,433.17240 LB	573.59670 LB
PM	10000 LB	356,835.01312 LB	93,047.42734 LB	
PM10	10000 LB	309,970.70062 LB	60,625.51679 LB	
ROG	6000 LB	575,988.22997 LB	80,351.83741 LB	230.68118 LB
ACETALDEHYDE (fs)	404 LB	3,682.29088 LB	3,682.29088 LB	
ACETIC ACID (s)	5774 LB	16,908.16700 LB	16,908.16700 LB	
ARSENIC (fs)	.21 LB	.21770 LB	.21770 LB	
CADMIUM (fs)	.49 LB	1.19733 LB	1.19733 LB	
FORMALDEHYDE (fs)	68.3 LB	1,786.86060 LB	1,786.86060 LB	
FURFURAL (s)	1849 LB	3,521.90100 LB	3,521.90100 LB	

-2017 SUMMARY-	--2017--	--2017--	--2017--	--2017--
--POLLUTANT--	--NR438_THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
CO	10000 LB	141,109.45800 LB	141,109.45800 LB	
NOX	10000 LB	185,469.96000 LB	185,469.96000 LB	561.15560 LB
PM	10000 LB	1,450,177.66010 LB	111,525.46189 LB	
PM10	10000 LB	1,390,721.26563 LB	87,051.17369 LB	
ROG	6000 LB	515,409.38830 LB	57,930.16193 LB	188.75917 LB
ACETIC ACID(S)	5774 LB	5,897.64000 LB	5,897.64000 LB	
ACROLEIN(FS)	75 LB	126.09759 LB	126.09759 LB	
CADMIUM(FS)	.49 LB	1.09506 LB	1.09506 LB	
FORMALDEHYDE (FS)	68.3 LB	250.25708 LB	250.25708 LB	

REPORT LEGEND

--EMISSIONS--

c = Calculated; r = Reported; m = Measured; t = Tank

f = Federal Hap; s = State Hap; fs = Fed and State Hap