DuPont Fluoroproducts
22828 NC Highway 87 W
Fayetteville, NC 28306-7332

DuPont Fluoroproducts

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

February 14, 2014

Mr. Steven F. Vozzo
NCDENR Division of Air Quality
225 Green Street
Suite 714
Fayetteville, NC 28301-5043

U.S. EPA Region 4
Air and EPCRA Enforcement Section
Mail Code: 4APT-AEEB
61 Forsyth Street S.W.
Atlanta, GA 30303

SUBJECT: 2013 Title V Air Permit – Annual Compliance Certification
Title V Permit Number 03537T38
Facility ID: 0900009

Dear Sirs:

Attached is the DuPont Company – Fayetteville Works' Title V Air Permit Annual Compliance Certification report for calendar year 2013. The required photocopy of this report is included in the NCDENR Division of Air Quality mailing.

If you should have any questions, please call me at 910-678-1155.

Sincerely,

Michael E. Johnson
Environmental Manager

Attachment

North Carolina Department of Environment and Natural Resources
Division of Air Quality
Title V Annual Compliance Certification Forms

Facility Name:	DuPont Company – Fayetteville Works
Facility Address:	22828 NC Highway 87 W, Fayetteville, NC 28306-7332
Facility Location:	22828 NC Highway 87 W, Duart Township, Bladen County, NC
Facility ID Number:	0900009
Title V Permit Number:	03735T38
Start of Reporting Period:	January 1, 2013
End of Reporting Period:	December 31, 2013

Compliance Statement *(Check only one of the following options)*

X During the reporting period specified above, this facility was in compliance with all terms and conditions identified in the above referenced Title V Operating Permit. As such, there were no deviations, excess emissions events, or other reportable incidents including those attributable to equipment malfunctions, breakdown, or upset conditions (please fill out the Compliance Summary Report).

___ During the reporting period specified above, this facility was in compliance with ALL terms and conditions identified in the above referenced Title V Operating Permit, EXCEPT for the deviations identified in the Deviation Summary Report (please fill out **both** the Compliance Summary Report and Deviation Summary Report).

Does the above compliance statement **differ** from what is indicated on your most recent Title V Report (i.e. last Semi-Annual Monitoring Report, Annual Emissions Inventory, etc)? ☐ **Yes** ☒ **No**

Are you submitting this Annual Compliance Certification form to also fulfill a Title V Semi-Annual Monitoring reporting requirement? ☐ **Yes** ☒ **No**

Certification By Responsible Official

Based on information and belief formed after reasonable inquiry, the undersigned certifies under penalty of law (federal rule 40 CFR 70.5(d)) that all information and statements provided in this form (including any attachments) are true, accurate, and complete.

Ellis H. McGaughy
(Signature of Responsible Official)

February 11, 2014
(Date)

Name: **Ellis H. McGaughy**
(Type or Print)

Number of Attached Pages (not including Instructions Page) **48**

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(1)(a)	Emissions of particulate matter from the combustion of fuel oil that are discharged from the affected boilers (ID Nos. PS-A and PS-B) into the atmosphere shall not exceed 0.2667 pounds per million Btu heat input. [15A NCAC 2D .0503]	No	NA	NA	AP-42 emission factors	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(1)(b)	Emissions of particulate matter from the combustion of fuel oil that are discharged from the affected boiler (ID No. PS-C) into the atmosphere shall not exceed 0.2268 pounds per million Btu heat input. [15A NCAC 2D .0503]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(1)(c)	If emissions testing is required, the testing shall be performed in accordance General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for these sources	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(1)(d)	No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas or fuel oil in these sources. [15A NCAC 2Q .0508(f)]	No	NA	NA	Only natural gas or No. 2 fuel oil was burned in 2013	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(2)(a)	Emissions of sulfur dioxide from the affected boilers (ID Nos. PS-A and PS-B) shall not exceed 2.3 pounds per million Btu heat input. [15A NCAC 2D .0516]	No	Yes	NA	0.5% Sulfur No. 2 fuel oil equates to 0.5 lb. SO2 per million BTU.	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(2)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. [15A NCAC 2D . 0508(f)]	No	NA	NA	Emissions testing is not required for these sources	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(2)(c)	No monitoring/recordkeeping is required for sulfur dioxide emissions from natural gas or fuel oil burned in these sources. [15A NCAC 2Q .0508(f)]	No	NA	NA	Only natural gas or No. 2 fuel oil was burned in 2013	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A	2.1(A)(3)(a)	Visible emissions from the boiler (ID No. PS-A) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521]	No	NA	NA	No deviations noted	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(3)(b)	Visible emissions from the boiler (ID No. PS-B) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521]	No	NA	NA	No deviations noted	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(3)(c)	If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for these sources	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A and PS-B	2.1(A)(3)(d)	No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas or fuel oil in these sources. [15A NCAC 2Q .0508(f)]	No	NA	NA	Only natural gas or No. 2 fuel oil was burned in 2013	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(a)	The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524, "New Source Performance Standards" (NSPS) as promulgated in 40 CFR 60, Subpart Dc, including Subpart A, "General Provisions." [15A NCAC 02D .0524]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(b)	The maximum sulfur content of any fuel oil received and fired in the affected boiler shall not exceed 0.5 percent by weight. [15A NCAC 2D .0524]	No	NA	NA	Boiler PS-C has not been constructed	

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For Calendar Year 2013

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(c)	Visible emissions from the affected boiler shall not be more than 20 percent opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity. [15A NCAC 2D .0524]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(d)	Within 60 days after achieving the maximum firing rate at the affected boiler but not later than 180 days after initial startup, the Permittee shall conduct a Method 9 test (6-minute average of 24 observations) to determine the opacity of stack emissions in accordance with 40 CFR 60.45c(a)(8) and 40 CFR 60.8. All testing notifications and reports shall be submitted in accordance with General Condition JJ of this permit. [15A NCAC 2Q .0508(f)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(e)	The Permittee shall retain a record of the quantity of natural gas and fuel oil fired at the affected boiler each calendar month. [15A NCAC 2Q .0508(f)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(f)	The Permittee shall retain a copy of the fuel supplier certification for any fuel oil fired at the affected boiler. The fuel supplier certification shall include the following information: i. The name of the oil supplier; ii. The sulfur content of the oil (in % by weight); and, iii. A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c. [15A NCAC 2Q .0508(f)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(g)	The Permittee shall submit a construction notification of the date construction of the affected boiler is commenced, postmarked no later than 30 days after such date. [15A NCAC 2Q .0508(f)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(h)	The Permittee shall submit an initial notification to the Regional Supervisor within 15 days of actual startup of the affected boiler. The notification shall include: i. The actual date of initial startup; and, ii. 40cfr60.48c(a)(1)The design heat input capacity of the boiler and identification of fuels to be combusted in the boiler. [15A NCAC 2Q .0508(f)]	No	NA	NA	Boiler PS-C has not been constructed	

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For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(i)	The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The summary report shall include the following information: i. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1.A.4.e. of this permit; ii. A certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represents all of the fuel fired at the affected boiler during the semiannual period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(a)	In order to avoid applicability of 15A NCAC 2D .0530(g) for major sources and major modifications, the affected boiler shall discharge into the atmosphere less than 40 tons of Nitrogen Oxide per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(a)	In order to avoid applicability of 15A NCAC 2D .0530(g) for major sources and major modifications, the affected boiler shall discharge into the atmosphere less than 40 tons of Sulfur Dioxide per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for these sources	

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For Calendar Year 2013

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(c)	The Permittee shall keep monthly records of fuel usage in a logbook (written or in electronic format), as follows: i. The total quantity (in mmscf) of natural gas fired at the affected boiler; ii. The total quantity (in 1,000 gal) of fuel oil fired at the affected boiler; and, iii. The fuel oil supplier certification for any fuel oil fired at the affected boiler, including the sulfur content of the fuel oil (in percent by weight). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Fuel consumption and sulfur content records	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(d)	The Permittee shall calculate monthly and 12-month rolling NOx emissions from the affected boiler within 30 days after the end of each calendar month. Calculations shall be recorded in a logbook (written or electronic format), according to a specified formula. i. Calculate NOx emissions from the previous calendar month using a specified equation. ii. Sum the NOx emissions from the affected boiler for the previous 12-month period to determine the 12-month rolling emission total. [15A NCAC 2D .0530]	No	Yes	NA	Monthly PSD avoidance reports	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(e)	The Permittee shall calculate monthly and 12-month rolling SO_2 emissions from the affected boiler within 30 days after the end of each calendar month. Calculations shall be recorded in a logbook (written or electronic format), according to a specified formula. i. Calculate SO_2 emissions from the previous calendar month using a specified equation. ii. Sum the SO_2 emissions from the affected boiler for the previous 12-month period to determine the 12-month rolling emission total. [15A NCAC 2D .0530]	No	Yes	NA	Monthly PSD avoidance reports	

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For Calendar Year 2013

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(5)(f)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly NOx and SO2 emissions from the affected boiler for the previous 17 calendar months; ii. The 12-month rolling NOx and SO_2 emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2D .0530]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(a)	The initial compliance date for the emission limitations and associated monitoring, recordkeeping, and reporting requirements listed below is December 12, 2013. These conditions need not be included on the annual compliance certification until after the initial compliance date. These limits apply except for periods of startup, shutdown, and malfunction. The Permittee shall follow the procedures in 15A NCAC 2D .0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction. [15A NCAC 2D .1109]	No	NA	NA	No excess emissions were noted during periods of startup, shutdown, or malfunction	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(c)	The Permittee shall perform an annual boiler inspection and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following: i. Inspect the burner, and clean or replace any components of the burner as necessary; ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and, iii. Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly. The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Annual boiler inspections and tune-ups of boilers PS-A and PS-B were completed on 09-07-2013 and 04-15-2013 respectively.	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(d)	The results of any required annual burner inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following: i. The date of each recorded action; ii. The results of each inspection; and, iii. The results of any maintenance performed on the boilers. [15A NCAC 2Q .0508(f)]	No	Yes	NA	The results of any required annual burner inspections and tune-ups are maintained as .pdf files on the site's computer server	

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(e)	Semiannual Summary Report. The Permittee shall submit a summary report by January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The first summary report shall be required on January 30, 2014. The report shall include the following: i. Company name and address; ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report; iii. Date of report and beginning and ending dates of the reporting period; iv. A summary of the results of the annual performance tests; v. Signed statement indicating that no new types of fuel were fired in the affected sources. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Butacite® flake dryer	BS-C	2.1(B)(1)(a)	Emissions of particulate matter from the affected source shall not exceed an allowable emission rate. [15A NCAC 2D .0515]	No	NA	NA	AP-42 emission factors	
Butacite® flake dryer	BS-C	2.1(B)(1)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Butacite® flake dryer	BS-C	2.1(B)(1)(c)	Particulate matter emissions from the Butacite® flake dryer shall be controlled by the bagfilter (ID No. BCD-C2) and cyclone separator (ID No. BCD-C1). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. As a minimum, the inspection and maintenance requirement shall include the following: i. A monthly visual inspection of the system ductwork and material collection unit for leaks; and ii. An annual internal inspection of the bagfilter's structural integrity. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Butacite® SAP records	

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For Calendar Year 2013

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		Permit Condition Number	Condition Summary					
Butacite® flake dryer	BS-C	2.1(B)(1)(d)	The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following: i. The date and time of each recorded action; ii. The results of each inspection; iii. The results of any maintenance performed on the bagfilters; and iv. Any variance from manufacturer's recommendations, if any, and corrections made. [15A NCAC 2D .0515]	No	Yes	NA	Butacite® SAP records	
Butacite® flake dryer	BS-C	2.1(B)(1)(e)	The Permittee shall submit the results of any maintenance performed on the bagfilters within 30 days of a written request by the DAQ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Maintenance results were not requested in 2013	
Butacite® flake dryer	BS-C	2.1(B)(1)(f)	The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Butacite® flake dryer	BS-C	2.1(B)(2)(a)	Visible emissions from the affected source shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521]	No	Yes	NA	Monthly visible emissions logbook	
Butacite® flake dryer	BS-C	2.1(B)(2)(b)	If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	

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		Permit Condition Number	Condition Summary					
Butacite® flake dryer	BS-C	2.1(B)(2)(c)	To assure compliance, once a month the Permittee shall observe the emission point of the affected source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either: i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2.a. above. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly visible emissions logbook	
Butacite® flake dryer	BS-C	2.1(B)(2)(d)	The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following: i. The date and time of each recorded action; ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and iii. The results of any corrective actions performed. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly visible emissions logbook	
Butacite® flake dryer	BS-C	2.1(B)(2)(e)	The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	

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		Permit Condition Number	Condition Summary					
Butacite® PVA Unloading System and Storage Silos Butacite® PVA Dissolving System Butacite® Flake Reactor System Butacite® Flake Dryer	BS-F BS-G BS-B BS-C	2.1(B)(4)(a)	The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart FFFF, including Subpart A, "General Provisions". [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semiannual Compliance Report per 40 CFR 63.2520(e)	
Butacite® PVA Unloading System and Storage Silos Butacite® PVA Dissolving System Butacite® Flake Reactor System Butacite® Flake Dryer	BS-F BS-G BS-B BS-C	2.1(B)(4)(b)	For each affected MPCU with a Group 2 Process Vent, the Permittee shall retain the following records: i. A record of the day each batch was completed; ii. A record of whether each batch operated was considered a standard batch; iii. The estimated uncontrolled and controlled emissions for each batch that is considered to be a non-standard batch; and, iv. Records of the daily 365-day rolling summations of emissions, or alternative records that correlate to the emissions (e.g., number of batches), calculated no less frequently than monthly. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Butacite® Monthly Batch Records and Emissions Estimations	

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		Permit Condition Number	Condition Summary					
Butacite® PVA Unloading System and Storage Silos Butacite® PVA Dissolving System Butacite® Flake Reactor System Butacite® Flake Dryer	BS-F BS-G BS-B BS-C	2.1(B)(4)(c)	For each affected Group 2 wastewater stream, the Permittee shall retain the following records: i. MPCU identification and description; ii. Stream identification code; iii. Concentration of compounds listed in Table 8 and Table 9 of 40 CFR 63, Subpart FFFF (in ppmw), including documentation of the methodology used to determine concentration; and, iv. Stream flow rate (in L/min). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Butacite® Group 2 Wastewater Records	
Nafion® membrane coating process	NS-I	2.1(C)(1)(a)	Emissions of particulate matter from the affected source shall not exceed an allowable emission rate. [15A NCAC 2D .0515]	No	NA	NA	Emission source NS-I has no visible emissions	
Nafion® membrane coating process	NS-I	2.1(C)(1)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Nafion® membrane coating process	NS-I	2.1(C)(1)(c)	The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above (or the formulas contained in 15A NCAC 2D .0515) can be derived, and shall make these records available to a DAQ authorized representative upon request. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Nafion® Production Records	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® membrane coating process	NS-I	2.1(C)(1)(d)	The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Nafion® membrane coating process	NS-I	2.1(C)(2)(a)	Visible emissions from the affected source shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521]	No	NA	NA	Emission source NS-I has no visible emissions	
Nafion® membrane coating process	NS-I	2.1(C)(2)(b)	If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Nafion® membrane coating process	NS-I	2.1(C)(2)(c)	No monitoring/recordkeeping/ reporting is required for visible emissions from this source. [15A NCAC 2Q .0508(f)]	No	NA	NA	NA	
Vinyl Ethers North process	NS-B	2.1(C)(4)(a)	In order to avoid applicability of this regulation, the Vinyl Ethers North process shall discharge into the atmosphere less than 68.9 tons of VOCs per consecutive 12-month period. [15A NCAC 2Q .0317]	No	NA	NA	Monthly PSD avoidance reports	
Vinyl Ethers North process	NS-B	2.1(C)(4)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Vinyl Ethers North process	NS-B	2.1(C)(4)(c)	To demonstrate compliance with the limit provided in Section 2.1 C.4.a., within 30 days of the end of each calendar month the Permittee shall create and retain production records and estimate associated VOC emissions for the previous calendar month, as follows: i. Using measured vent flow rates and assumed compositions, determine the process vent mass flow rates of non-acid fluoride VOC (Q_{nAF}) and acid fluoride VOC (Q_{AF}) during the previous calendar month (in lb/month). ii. Considering the 99.6% efficiency of the baffle-plate scrubber (ID No. NCD-Hdr1) to control acid fluoride VOC, calculate the VOC emissions (E_V) from the process vents during the previous calendar month (in lb/month) using a specified equation. iii. Record the total solvents used (M) in the affected facility during the previous calendar month (in lb/month). iv. Record the total solvent waste generation (W) for the affected facility during the previous calendar month (in lb/month). v. Calculate the solvent VOC emissions (ES) from the affected facility during the previous calendar month (in lb/month) using a specified equation. vi. Determine the VOC emissions from maintenance emissions (EM) during the previous calendar month. vii. Calculate the VOC emissions from fugitive emissions (EF) using accepted practices during the previous calendar month. viii. Record VOC emissions from any accidental releases (EA) during the previous calendar month. ix. Calculate the total process VOC emissions (E) using a specified equation.	No	Yes	NA	Monthly PSD avoidance reports	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Vinyl Ethers North process	NS-B	2.1(C)(4)(c)	x. Calculate the 12-month rolling VOC emissions from the affected facility by summing the monthly VOC emissions (E), as calculated in ix. above, for the previous consecutive 12-months. Required records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	
Vinyl Ethers North process	NS-B	2.1(C)(4)(d)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly VOC emissions from the affected facility for the previous 17 calendar months; ii. The 12-month rolling VOC emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Resins process	NS-G	2.1(C)(5)(a)	In order to avoid applicability of this regulation, the resins process shall discharge into the atmosphere less than 40 tons of VOCs per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	
Resins process	NS-G	2.1(C)(5)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Resins process	NS-G	2.1(C)(5)(c)	To demonstrate compliance with the limit provided in Section 2.1 C.5.a., within 30 days of the end of each calendar month the Permittee shall create and retain production records and estimate associated VOC emissions for the previous calendar month, as follows: i. Record the total raw materials fed (M) to the affected facility during the previous calendar month (in kg/month); ii. Record the total transformed materials collected (P) for the affected facility during the previous calendar month (in kg/month); iii. Record the total untransformed materials collected (W) for the affected facility during the previous calendar month (in kg/month). iv. Determine the VOC emissions from the filling of storage tanks (S) for the affected facility during the previous calendar month. v. Calculate the VOC emissions (E) from the affected facility during the previous calendar month (in lb/month) using a specific equation. vi. Calculate the 12-month rolling VOC emissions from the affected facility by summing the monthly VOC emissions (E), as calculated in iv. above, for the previous consecutive 12-months. Required records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. . [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Resins process	NS-G	2.1(C)(5)(d)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly VOC emissions from the affected facility for the previous 17 calendar months; ii. The 12-month rolling VOC emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
HFPO process	NS-A	2.1(C)(6)(a)	In order to avoid applicability of this regulation, the HFPO process shall discharge into the atmosphere less than 85.3 tons of VOCs per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	
HFPO process	NS-A	2.1(C)(6)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
HFPO process	NS-A	2.1(C)(6)(c)	To demonstrate compliance with the limit provided in Section 2.1 C.6.a., within 30 days of the end of each calendar month the Permittee shall create and retain production records and estimate associated VOC emissions for the previous calendar month, as follows: i. Record the total raw material HFP consumed (M_{HFP}) in the affected facility during the previous calendar month; ii. Record the average vent flow rate and composition from the AF column (Q_{AC}) and Stripper columns (Q_{SC}) during the previous calendar month; iii. Using a combination of ratios of vent rates (Q_{AC} and Q_{SC}) to HFP consumption (M_{HFP}) from the process flowsheet and actual vent data, determine the process VOC emissions (E_P) from the AF column (E_{AC}), stripper column (E_{SC}), solvent recycle tank (E_{SRT}), and routine decontamination of HFP unloading system (E_{DC}) through the baffle-plate scrubber. iv. Calculate the VOC emissions through the baffle-plate scrubber from maintenance activity (E_M) based on vessel volumes and vapor density for each occurrence of this activity during the previous calendar month. v. Calculate the VOC emissions from fugitive emissions (E_F) using accepted practices during the previous calendar month. vi. Record VOC emissions from any accidental releases (E_A) during the previous calendar month. vii. Calculate the VOC emissions (E) from the affected facility during the previous calendar month (in lb/month) using a specified equation. viii. Calculate the 12-month rolling VOC emissions from the affected facility by summing the monthly VOC emissions (E), as calculated in vii., for the previous consecutive 12-months. Required records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
HFPO process	NS-A	2.1(C)(6)(d)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly VOC emissions from the affected facility for the previous 17 calendar months; ii. The 12-month rolling VOC emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
HFPO Product Container Decontami-nation Process	NS-N	2.1(C)(7)(a)	In order to avoid applicability of this regulation, the HFPO Product Container Decontamination Process shall discharge into the atmosphere less than 40.0 tons of VOCs per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	
HFPO Product Container Decontami-nation Process	NS-N	2.1(C)(7)(b)	To demonstrate compliance with the limit provided in Section 2.1 C.6.a., each calendar month the Permittee shall create and retain records and estimate associated VOC emissions, as follows: i. Create a record of each container received at the facility including the date the container was decontaminated; and, the total mass of VOC released from the container (in lbs). ii. Calculate the VOC emissions from the process during the previous calendar month (in lb/month) by summing the quantity of VOC released from each container decontaminated during the previous calendar month. iii. Calculate the VOC emissions from the process during the previous consecutive 12-month period (in tons/12-months) by summing the quantity of VOC released for the previous twelve (12) calendar months. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
HFPO Product Container Decontami-nation Process	NS-N	2.1(C)(7)(c)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly VOC emissions from the affected facility for the previous 17 calendar months; ii. The 12-month rolling VOC emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2D .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(a)	The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart FFFF, including Subpart A, "General Provisions". [15A NCAC 2D .1111]	No	Yes	NA	Semi-annual Compliance Report	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(b)	Opening a safety device, as defined in §63.2550, is allowed at any time conditions require it to avoid unsafe conditions. [15A NCAC 2D .1111]	No	NA	NA	NA	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(c)	All equipment affected by these leak requirements shall be identified. Identification of the equipment does not require physical tagging of the equipment. For example, the equipment may be identified on a plant site plan, in log entries, by designation of process unit or affected facility boundaries by some form of weatherproof identification, or by other appropriate methods. The following additional equipment identification requirements also apply: i. Connectors need not be individually identified if all affected connectors in a designated area or length of pipe are identified as a group, and the number of connectors subject is indicated. ii. Identify pressure relief devices equipped with upstream rupture disks, as described in 40 CFR 63.1030(e); and, iii. The identity, either by list, location (area or group), or other method, of equipment in regulated material service less than 300 hour per calendar year. iv. Identify unsafe-to-monitor equipment, meeting the criteria provided in 40 CFR 63.1022(c)(1), an explanation why the equipment is unsafe-to-monitor, and record the planned schedule for monitoring this equipment.	No	Yes	NA	Physical tagging in field and identification on P&I drawings	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(c)	v. Identify difficult-to-monitor equipment, meeting the criteria provided in 40 CFR 63.1022(c)(2) , an explanation why the equipment is difficult-to-monitor, and record the planned schedule for monitoring this equipment. vi. Identify unsafe-to-repair equipment, meeting the criteria provided in 40 CFR 63.1022(d)(1) , an explanation why the equipment is unsafe-to-repair. [15A NCAC 2D .1111]	No	Yes	NA	Physical tagging in field and identification on P&I drawings	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(d)	If the facility includes equipment designated as: i. Unsafe-to-monitor, create and implement a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair procedures that are consistent with the requirements of this permit. ii. Difficult-to-monitor, create and implement a written plan that requires monitoring of the equipment at least once per calendar year and repair procedures that are consistent with the requirements of this permit. The Permittee shall retain required written plans on-site, and make them available to NC DAQ for review upon request.. [15A NCAC 2D .1111]	No	Yes	NA	Site-specific Procedure NG-18	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(e)	The instrument reading that defines a leaking valve is 500 ppm or greater. [15A NCAC 2D .1111]	No	NA	NA	NA	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(f)	*Instrument inspection.* The Permittee shall monitor valves for leaks using the instrument monitoring methods described in 40 CFR 63.1023(b)-(c) at the frequency specified below: i. If at least the greater of 2 valves or 2% of the valves in a process unit leak, as calculated according to 40 CFR 63.1025(c), monitor each valve once per month. ii. At process units with less than the greater of 2 leaking valves or 2% leaking valves, monitor each valve once each calendar quarter, except as provided in iii., iv., or, v. below. iii. At process units with less than 1 percent leaking valves, the Permittee may elect to monitor each valve once every two quarters. iv. At process units with less than 0.5 percent leaking valves, the Permittee may elect to monitor each valve once every four quarters. v. At process units with less than 0.25 percent leaking valves, the Permittee may elect to monitor each valve once every 2 years. The Permittee may choose to subdivide the valves in the applicable process units or groups of process units and apply the provisions above to each subgroup. If the Permittee elects to subdivide the valves, it shall comply with the provisions of 40 CFR 63.1025(b)(4). [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc.	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(g)	The percentage of leaking valves, used to determine the required monitoring frequency above, shall be calculated according to the procedures in 40 CFR 63.1025(c). [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(h)	The Permittee shall create and retain a record of the monitoring schedule for each process unit. [15A NCAC 2D .1111]	No	Yes	NA	Schedule with Contract Services	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(i)	If a leak is identified: i. It shall be repaired as provided in the repair provisions of this section. ii. After a leak has been repaired, the valve shall be monitored at least once within the first 3 months after its repair. This requirement is in addition to the monitoring required to satisfy the definition of repaired and first attempt at repair. The required periodic monitoring may be used if it satisfies the timing requirement of this condition. If a leak is detected by this follow-up monitoring, follow the provisions below to determine whether that valve must be counted as a leaking valve: (A) If the periodic monitoring was used to satisfy the follow-up monitoring requirement, then the valve shall be counted as a leaking valve. (B) If other monitoring is used satisfy the follow-up monitoring requirements, then the valve shall be counted as a leaking valve unless it is repaired and shown by periodic monitoring not to be leaking. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(j)	Unsafe-to-monitor valves. Any valve that is designated unsafe-to-monitor is exempt from the monitoring and repair requirements this section and the Permittee shall monitor the valve according to the written plan. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(k)	Difficult-to-monitor valves. Any valve that is designated as difficult-to-monitor is exempt from the monitoring requirements of this section and the Permittee shall monitor the valve according to the written plan. [15A NCAC 2D .1111]	No	NA	NA	Site-specific Procedure NG-18	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(l)	The instrument reading that defines a leaking pump is 1,000 ppm or greater. Repair is not required unless an instrument reading of 2,000 ppm or greater is detected.. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(m)	*Visual inspection.* Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. The visual inspection shall be consistent with the methods described in 40 CFR 63.1023(d). Document that the inspection was conducted and the date of the inspection. If are indications of liquids dripping from the pump seal at the time of the weekly inspection, follow either of the following procedures: i. Conduct instrument monitoring of the pump using specified methods. If the instrument reading indicates a leak, it shall be repaired as provided in the repair provisions of this section unless the reading is less than 2,000 ppm; ii. Eliminate the visual indications of liquids dripping. The Permittee shall document each visual pump inspection. [15A NCAC 2D .1111]	No	Yes	NA	Log-sheets in Environ-mental Facilitator files	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(n)	*Instrument inspection.* The Permittee shall monitor affected pumps once per calendar month using the instrument monitoring methods described in 40 CFR 63.1023(b)-(c). Leaks shall be repaired as provided in the repair provisions of this section. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(o)	Unsafe-to-monitor pumps. Any pump that is designated as unsafe-to-monitor is exempt from the inspection requirements provided above, and shall monitor and inspect the pump in accordance with the written plan. [15A NCAC 2D .1111]	No	NA	NA	Site-specific Procedure NG-18	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(p)	The instrument reading that defines a leaking connector is 500 ppm or greater. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	

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For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(q)	*Instrument inspection.* The Permittee shall monitor connectors for leaks using the instrument monitoring methods described in 40 CFR 63.1023(b)-(c). The required frequency of monitoring is based on the monitoring results from the previous leak inspection, as provided below: i. If the percent leaking connectors in the process unit was greater than or equal to 0.5 percent, then monitor within 12 months (1 year). ii. If the percent leaking connectors in the process unit was greater than or equal to 0.25 percent but less than 0.5 percent, then monitor within 4 years. The Permittee may satisfy this requirement by monitoring at least 40 percent of the connectors within 2 years of the start of the monitoring period, provided all connectors have been monitored by the end of the 4 year monitoring period. iii. If the percent leaking connectors in the process unit was less than 0.25 percent, monitor at least 50 percent of the connectors within 4 years of the start of the monitoring period <u>and</u>, based on the results of this inspection: (A) If the percent leaking connectors detected is greater than or equal to 0.35 percent of the monitored connectors, monitor all remaining connectors as soon as practical, but within the next 6 months. At the conclusion of monitoring, the new monitoring frequency shall be determined based on the percent leaking connectors of the total monitored connectors. (B) If the percent leaking connectors is less than 0.35 percent of the monitored connectors, monitor all connectors that have not yet been monitored within 8 years of the start of the monitoring period. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(r)	Create and retain a record of the monitoring schedule and the start date and end date of each monitoring period under this section for each affected process unit. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(s)	If a leak is identified: i. It shall be repaired as provided in the repair provisions of this section. ii. After a leak has been repaired, re-monitor the connector once within 90 days after repair to confirm that it is not leaking. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(t)	Unsafe-to-monitor connectors. Any connector that is designated as unsafe-to-monitor is exempt from the monitoring and repair requirements this section and the Permittee shall monitor the connector according to the written plan. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(u)	The instrument reading that defines a leaking agitator is 10,000 ppm or greater. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(v)	*Visual inspection.* Each agitator shall be checked by visual inspection each calendar week for indications of liquids dripping from the agitator seal. The visual inspection shall be consistent with the methods described in 40 CFR 63.1023(d). Document that the inspection was conducted and the date of the inspection. If are indications of liquids dripping from the agitator seal at the time of the weekly inspection, follow either of the following procedures: i. Conduct instrument monitoring of the pump using the methods described in 40 CFR 63.1023(b)-(c). If the instrument reading indicates a leak (10,000 ppm), it shall be repaired as provided in the repair provisions of this section; or	No	Yes	NA	Log-sheets in Environ-mental Facilitator files	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(v)	ii. Eliminate the visual indications of liquids dripping. The Permittee shall document each visual agitator inspection.. [15A NCAC 2D .1111]	No	Yes	NA	Log-sheets in Environ-mental Facilitator files	

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Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(w)	*Instrument inspection.* The Permittee shall monitor affected agitator once per calendar month using the instrument monitoring methods described in 40 CFR 63.1023(b)-(c). Leaks shall be repaired as provided in the repair provisions of this section. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(x)	The instrument reading that defines a leaking pressure relief valve is 500 ppm or greater. This standard does not apply during pressure releases as provided below. After each pressure release, the pressure relief device shall be returned to a condition indicated by an instrument reading of less than 500 parts per million, as soon as practical, but no later than 5 calendar days after each pressure release. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(y)	*Instrument inspection.* The pressure relief device shall be monitored no later than five calendar days after the pressure release to confirm the condition indicated by an instrument reading of less than 500 parts per million above background using the instrument monitoring methods described in 40 CFR 63.1023(b)-(c). Record the dates and results of the monitoring including the background level measured and the maximum instrument reading measured. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(z)	When a leak is detected using either sensory or instrument monitoring methods, a weatherproof and readily visible identification shall be attached to the leaking equipment. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	

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		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(aa)	Leak identifications that are placed on leaking equipment may be removed as follows: i. Leak identification on a valve in gas/vapor or light liquid service may be removed after it has been re-monitored as required in this section, and no leak has been detected during that monitoring. ii. Leak identification on a connector in gas/vapor or light liquid service may be removed after it has been re-monitored as required in this section and no leak has been detected during that monitoring. Leak identification on other equipment may be removed after it is repaired. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(bb)	The Permittee shall repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except where "Delay of Repair" or "Unsafe to Repair" provisions apply. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. i. First attempt at repair for pumps includes, but is not limited to, tightening the packing gland nuts and/or ensuring that the seal flush is operating at design pressure and temperature. ii. First attempt at repair for valves includes, but is not limited to, tightening the bonnet bolts, and/or replacing the bonnet bolts, and/or tightening the packing gland nuts, and/or injecting lubricant into the lubricated packing. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(cc)	*Delay of repair.* Delay of repair is allowed for any of the conditions listed in this paragraph. The Permittee shall maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. [15A NCAC 2D .1111]	No	NA	NA	No delay of repair situations occurred in 2013	

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Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(dd)	Unsafe-to-repair connectors. Any connector that is identified as unsafe-to-repair is exempt from the leak repair requirements of this permit. [15A NCAC 2D .1111]	No	NA	NA	Site-specific Procedure NG-18	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(ee)	For each leak detected, the following information shall be recorded and maintained: i. The date of first attempt to repair the leak. ii. The date of successful repair of the leak. iii. Maximum instrument reading measured by Method 21 of 40 CFR 60, Appendix A at the time the leak is successfully repaired or determined to be non-repairable. iv. "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak as specified below: (A) The Permittee may develop a written procedure that identifies the conditions that justify a delay of repair. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure. (B) If delay of repair was caused by depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked on-site before depletion and the reason for depletion. Dates of process unit or affected facility shutdowns that occur while the equipment is unrepaired. [15A NCAC 2D .1111]	No	Yes	NA	Reports from Team Inc	

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Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(ff)	Create and retain the following general records: i. General and specific equipment identification if the equipment is not physically tagged and the Permittee is electing to identify the affected equipment through written documentation such as a log or other designation; ii. Written plans for any equipment that is designated as unsafe- or difficult-to-monitor; and, iii. A record of the identity and justification of any equipment that is designated as unsafe-to-repair. [15A NCAC 2D .1111]	No	Yes	NA	All equipment is physically tagged; Site-specific Procedure NG-18 is the written plan	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(gg)	Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. The plan shall require monitoring of one or more surrogate indicators (e.g., pH, conductivity, etc.) or monitoring of one or more process parameters or other conditions that indicate a leak. The plan shall include the following: i. A description of the parameter or condition to be monitored and an explanation of how the selected parameter or condition will reliably indicate the presence of a leak; ii. The parameter level(s) or conditions(s) that shall constitute a leak. This shall be documented by data or calculations showing that the selected levels or conditions will reliably identify leaks. The monitoring must be sufficiently sensitive to determine the range of parameter levels or conditions when the system is not leaking. When the selected parameter level or condition is outside that range, a leak is indicated; iii. The monitoring frequency which shall be no less frequent than monthly for the first 6 months and quarterly thereafter to detect leaks;	No	Yes	NA	Site-specific Procedure NG-18 Analytical reports from Compuchem Laboratory	

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		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(gg)	iv. The records that will be maintained to document compliance with the requirements of this section. If a substantial leak is identified by methods other than those described in the monitoring plan and the method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes no later than 180 days after discovery of the leak. Maintain a copy of the monitoring plan on-site. If the monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. [15A NCAC 2D .1111]	No	Yes	NA	Site-specific Procedure NG-18	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(hh)	If a leak is detected in any heat exchanger system, it shall be repaired as soon as practical but not later than 45 calendar days after the Permittee receives results of monitoring tests indicating a leak, unless the Permittee demonstrates that the results are due to a condition other than a leak. Once the leak has been repaired, the owner or operator shall confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. [15A NCAC 2D .1111]	No	Yes	NA	Electronic Log Book on DuPont FW Intranet No leaks occurred in 2013	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(ii)	Delay of repair of heat exchange systems is allowed if the equipment is isolated from the process. Delay of repair is also allowed if repair is technically infeasible without a shutdown and any one of the conditions listed in 40 CFR 63.104(e)(1)-(2) is met. [15A NCAC 2D .1111]	No	NA	NA	No delay of repairs occurred in 2013	

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Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(jj)	For each affected heat exchanger system, the Permittee shall retain the following records: i. Monitoring data indicating a leak, the date when the leak was detected, and if demonstrated not to be a leak, the basis for that determination; ii. Records of any leaks detected by procedures other than those provided in the written plan, including the date the leak was discovered; iii. The dates of efforts to repair leaks; and, iv. The method or procedure used to confirm repair of a leak and the date repair was confirmed. [15A NCAC 2D .1111]	No	NA	NA	No leaks occurred in 2013	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(kk)	Create and retain the following records on each affected MCPU. i. A description of the process and the type of process equipment used; ii. An identification of related process vents (including associated emissions episodes), wastewater points of determination (PODs), and storage tanks; iii. The applicable control requirements pursuant to 40 CFR 63, Subpart FFFF, including the level of required control, and for vents, the level of control for each vent; iv. The control device or treatment process used, as applicable, including a description of operating and/or testing conditions for any associated control device; v. The process vents, wastewater POD, transfer racks, and storage tanks (including those from other processes) that are simultaneously routed to the control device or treatment process; vi. The applicable monitoring requirements of this subpart and any parametric level that assures compliance for all emissions routed to the control device or treatment process;	No	Yes	NA	Notification of Compliance Status Report	

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		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(kk)	vii. Calculations and engineering analyses required to demonstrate compliance. [15A NCAC 2D .1111]	No	Yes	NA	Notification of Compliance Status Report	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(ll)	Create and retain a record of each time a safety device is opened to avoid unsafe conditions. [15A NCAC 2D .1111]	No	Yes	NA	Safety Incident Reports	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(mm)	For each affected Group 2 wastewater stream, the Permittee shall retain the following records: i. MPCU identification and description; ii. Stream identification code; iii. Concentration of compounds listed in Table 8 and Table 9 of 40 CFR 63, Subpart FFFF (in ppmw), including documentation of the methodology used to determine concentration; and, iv. Stream flow rate (in L/min). [15A NCAC 2D .1111]	No	Yes	NA	Notification of Compliance Status Report	
Nafion® processes	NS-A through NS-L	2.1(C)(8)(nn)	If a Group 2 emission point becomes a Group 1 emission point, the Permittee must be in compliance with the Group 1 requirements beginning on the date the switch occurs. An initial compliance demonstration as specified in 40 CFR 63, Subpart FFFF must be conducted within 150 days after the switch occurs. [15A NCAC 2D .1111]	No	NA	NA	No Group 2 emission points became Group 1 emission points in 2013	

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		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(oo)	The Permittee shall submit a semi-annual compliance report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before February 28 of each calendar year for the preceding six-month period between July and December, and August 31 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. Company name and address; ii. Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report; iii. Date of report and beginning and ending dates of the reporting period; iv. If there are no deviations from any emission limit, operating limit or work practice standard specified in this subpart, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period; v. For each deviation from an emission limit, operating limit, and work practice standard, include the following information: (A) The total operating time of the affected source during the reporting period; and, (B) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. vi. Identify each new operating scenario which has been operated since the time period covered by the last compliance report and has not been submitted in the previous compliance report. For the purposes of this paragraph, a revised operating scenario for an existing process is considered to be a new operating scenario;	No	Yes	NA	Semi-annual Compliance Report	

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		Permit Condition Number	Condition Summary					
Nafion® processes	NS-A through NS-L	2.1(C)(8)(oo)	vii. For the equipment listed below, report in a summary format by equipment type, the number of components for which leaks were detected and for valves, pumps and connectors show the percent leakers, and the total number of components monitored. Also include the number of leaking components that were not repaired as required, and for valves and connectors, identify the number of components that are determined to be non-repairable as described in 40 CFR 63.1025(c)(3). (A) Valves in gas and vapor service and in light liquid service; (B) Pumps in light liquid service; (C) Connectors in gas and vapor service and in light liquid service; and, (D) Agitators in gas and vapor service and in light liquid service. viii. Where any delay of repair for leaks is utilized, report that delay of repair has occurred and report the number of instances of delay of repair. ix. For pressure relief devices, report the results of all leak monitoring to show compliance conducted within the semiannual reporting period. x. Report, if applicable, the initiation of a monthly leak monitoring program for valves. xi. For each affected heat exchanger system for which the Permittee invokes the delay of repair, include the following information: (A) the presence of the leak and the date that the leak was detected (B) whether or not the leak has been repaired (C) the reason(s) for delay of repair (D) If the leak is repaired, the owner or operator shall report the date the leak was successfully repaired. (E) If the leak remains unrepaired, the expected date of repair. [15A NCAC 2D .1111]	No	Yes	NA	Semi-annual Compliance Report	

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Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(1)(a)	Emissions of particulate matter discharged into the atmosphere from the combustion of No. 2 fuel oil in the temporary boiler shall not exceed 0.2426 pounds per million Btu heat input. [15A NCAC 2D .0503]	No	NA	NA	AP-42 emission factors	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(1)(b)	If emissions testing is required, the testing shall be performed in accordance General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(1)(c)	No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of fuel oil in this source for this regulation. [15A NCAC 2Q .0508(f)]	No	NA	NA	NA	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(2)(a)	Emissions of sulfur dioxide from the temporary boiler shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0524]	No	Yes	NA	0.5% Sulfur No. 2 fuel oil equates to 0.5 lb. SO2 per million BTU	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(2)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(2)(c)	No monitoring/recordkeeping is required for sulfur dioxide emissions from the firing of natural gas or fuel oil in this source. [15A NCAC 2Q .0508(f)]	No	NA	NA	NA	

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		Permit Condition Number	Condition Summary					
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(3)(a)	Visible emissions from the temporary boiler shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0524]	No	NA	NA	No deviations noted	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(3)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Emissions testing is not required for this source	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(3)(c)	No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas or fuel oil in this source. [15A NCAC 2D .0524]	No	NA	NA	NA	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(4)(a)	In order to avoid the applicability of 15A NCAC 2D .0524, the temporary boiler shall combust natural gas or distillate oil with a potential sulfur dioxide emission rate no greater than 0.060 lb/MMBtu, be capable of being moved from one location to another, and remain onsite for no longer than 180 consecutive days as defined in 40 CFR 60.41c. [15A NCAC 2Q .0317]	No	Yes	NA	The boiler was last onsite from 11-19-2012 until 01-09-2013	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(4)(b)	The Permittee shall notify the Regional Office in writing within ten days of exceeding the 180 day period. [15A NCAC 2D .0317]	No	Yes	NA	The boiler was last onsite from 11-19-2012 until 01-09-2013	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(a)	In order to avoid applicability of 15A NCAC 2D .0530(g) for major sources and major modifications, the temporary boiler shall discharge into the atmosphere less 40 tons of sulfur dioxide per consecutive twelve-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	

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		Permit Condition Number	Condition Summary					
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(c)	The Permittee shall keep monthly records of fuel usage in a logbook (written or in electronic format), as follows: i. The total quantity (in 1,000 gal) of No. 2 fuel oil fired at the boiler; and, ii. The fuel oil supplier certification for any fuel oil fired at the boiler, including the sulfur content of the oil (in percent by weight). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Fuel consumption records and sulfur content records	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(d)	The Permittee shall calculate monthly and 12-month rolling SO_2 emissions from the temporary boiler within 30 days after the end of each calendar month. Calculations shall be recorded in a logbook (written or electronic format), according to specified formulas: i. Calculate SO_2 emissions from the previous calendar month using a specified equation. ii. Sum the SO_2 emissions from the boiler for the previous 12-month period to determine the 12-month rolling emission total. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(e)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly SO_2 emissions from the boiler for the previous 17 months; ii. The total SO_2 emissions from the boiler for each 12-month period ending during the six month reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	

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		Permit Condition Number	Condition Summary					
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(6)(a)	In order to avoid the applicability of 15A NCAC 2D .1109 and 15A NCAC 2D .1111, the temporary boiler shall not remain on site for more than 180 consecutive days. [15A NCAC 2Q .0317]	No	Yes	NA	The boiler was last onsite from 11-19-2012 until 01-09-2013	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(6)(b)	If any of these boilers remains on site for longer than 180 consecutive days, the Permittee shall notify the Regional Office in writing within ten days of exceeding the 180 day period. [15A NCAC 2Q .0317]	No	Yes	NA	The boiler was last onsite from 11-19-2012 until 01-09-2013	
SentryGlas Manufac-turing	SGS-A	2.1(G)(1)(a)	Visible emissions from this source shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521]	No	NA	NA	Emission source SGS-A has no visible emissions	
SentryGlas Manufac-turing	SGS-A	2.1(G)(1)(b)	If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601and General Condition JJ. [15A NCAC 2D .2601]	No	NA	NA	Emissions testing is not required for this source	
SentryGlas Manufac-turing	SGS-A	2.1(G)(1)(c)	No monitoring/recordkeeping/ reporting is required for visible emissions from this source. [15A NCAC 2Q .0508(f)]	No	NA	NA	NA	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(1)(a)	Emissions of particulate matter from the Product Collection Systems at the polyvinyl fluoride manufacturing facilities (Vent Nos. FEP-B4 & FEP-C4) shall not exceed an allowable emission rate as calculated by a specified equation. [15A NCAC 2D .0515]	No	NA	NA	AP-42 calculation	

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		Permit Condition Number	Condition Summary					
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(1)(b)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(1)(c)	The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above (or the formulas contained in 15A NCAC 2D .0515) can be derived, and shall make these records available to a DAQ authorized representative upon request. [15A NCAC 2Q .0508(f)]	No	Yes	NA	PVF Production Records	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(1)(d)	The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(2)(a)	Visible emissions from the Product Collection Systems at the polyvinyl fluoride manufacturing facilities (Vent Nos. FEP-B4 & FEP-C4) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521]	No	Yes	NA	Monthly visual observations	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(2)(b)	If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(2)(c)	To assure compliance, once a month the Permittee shall observe the emission point of the affected source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either: i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period, or ii. Demonstrate that the percent opacity from the emission points of the emission source is below the limit given in Section 2.1 H.2.a. above. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly visual observation record	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(2)(d)	The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following: i. The date and time of each recorded action; ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and iii. The results of any corrective actions performed. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly visual observation record	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(2)(e)	The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(4)(a)	In order to avoid applicability of this regulation, the Polyvinyl Fluoride (PVF) Manufacturing Facility No. 1 and No. 2 shall discharge into the atmosphere less than 40 tons of VOCs per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD Avoidance Report	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(4)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for this source	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(4)(c)	To demonstrate compliance with the limit provided in Section 2.1 H.4.a., within 30 days of the end of each calendar month the Permittee shall create and retain production records and estimate associated VOC emissions for the previous calendar month, as follows: i. Record the vent flow rates from the Analytical Equipment (Q_{FEP-B1} and Q_{FEP-C1}) at the two affected facilities (Vent Nos. FEP-B1 and FEP-C1 respectively) during the previous calendar month (in lb/month); ii. Calculate the VOC emissions ($E_{FEP-BC1}$) from the Analytical Equipment at two affected facilities during the previous calendar month (in lb/month) using the following equation. iii. Record the vent flow rates from the Analytical Equipment (Q_{FEP-B1} and Q_{FEP-C1}) at the two affected facilities (Vent Nos. FEP-B1 and FEP-C1 respectively) during the previous calendar month (in lb/month); iv. Calculate the VOC emissions ($E_{FEP-BC1}$) from the Analytical Equipment at two affected facilities during the previous calendar month (in lb/month) using a specified equation; v. Record the vent flow rates from the Maintenance Headers (Q_{FEP-B2} and Q_{FEP-C2}) at the two affected facilities (Vent Nos. FEP-B2 and FEP-C2 respectively) during the previous calendar month (in lb/month); vi. Calculate the VOC emissions ($E_{FEP-BC2}$) from the Maintenance Header at two affected facilities during the previous calendar month (in lb/month) using a specified equation; vii. At least once each hour, record the pressure (P_{FEP-B3} and P_{FEP-C3}) in the Low Pressure Slurry Separators at the two affected facilities (Vent Nos. FEP-B3 and FEP-C3 respectively) during the previous calendar month (in psig); viii. At least once each hour, record the vinyl fluoride flow rates (Q_{FEP-B3} and Q_{FEP-C3}) to the PVF Reactors at the two affected facilities (Vent Nos. FEP-B3 and FEP-C3 respectively) during the previous calendar month (in lb/hour);	No	Yes	NA	Monthly PSD Avoidance Report	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(4)(c)	ix. Using an emissions model based on vapor pressure equilibrium data and vinyl fluoride flow rates to the PVF Reactors, determine the hourly VOC emissions (E_{FEP-B3} and E_{FEP-C3}) from the Flash Tank vents at the two affected facilities (Vent Nos. FEP-B3 and FEP-C3 respectively) during the previous calendar month (in lb/hour); x. Calculate the sum of the hourly VOC emissions ($E_{FEP-BC3}$) from the Flash Tanks at the two affected facilities during the previous calendar month (in lb/month) using a specified equation; xi. Calculate the VOC emissions (E) from the two affected facilities during the previous calendar month (in lb/month) using a specified equation; xii. Calculate the 12-month rolling VOC emissions from the two affected facilities by summing the monthly VOC emissions (E), as calculated in x. above, for the previous consecutive 12-months. The first required monthly compliance demonstration, as described in i. through x. above, shall be required during the calendar month *following* the initial start-up of Polyvinyl Fluoride Process No. 2 (ID No. FS-C). Required records shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD Avoidance Report	
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(4)(d)	The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:: i. The monthly VOC emissions from two affected polyvinyl fluoride manufacturing operations for the previous 17 calendar months:	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Polyvinyl Fluoride Polymer Manufac-turing Facilities No. 1 & 2	FS-B and FS-C	2.1(H)(4)(d)	ii. The 12-month rolling VOC emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Natural gas / No. 2 / No. 6 fuel oil-fired boilers and natural gas / No. 2 fuel oil-fired boiler	PS-A PS-B PS-C PS-Temp	2.2(A)(1)(a)	In order to avoid applicability of this regulation, the affected boilers shall discharge into the atmosphere less than 702.5 tons of SO_2 per consecutive 12-month period. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD Avoidance Report	
Natural gas / No. 2 / No. 6 fuel oil-fired boilers and natural gas / No. 2 fuel oil-fired boiler	PS-A PS-B PS-C PS-Temp	2.2(A)(1)(b)	If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. [15A NCAC 2Q .0508(f)]	No	NA	NA	Emissions testing is not required for these sources	
Natural gas / No. 2 / No. 6 fuel oil-fired boilers and natural gas / No. 2 fuel oil-fired boiler	PS-A PS-B PS-C PS-Temp	2.2(A)(1)(c)	The Permittee shall keep monthly records of fuel usage in a logbook (written or in electronic format), as follows: i. The total quantity (in mmscf) of natural gas fired at the affected boilers; ii. The total quantity (in 1,000 gal) of fuel oil fired at the affected boilers; and, iii. The fuel oil supplier certification for any fuel oil fired at the affected boilers, including the sulfur content of the oil (in percent by weight). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Fuel Consumption Records and Certificates of Analysis from Oil Supplier	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2013

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No / NA)	Was Deviation a non-compliance issue? (Yes/No)	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas / No. 2 / No. 6 fuel oil-fired boilers and natural gas / No. 2 fuel oil-fired boiler	PS-A, PS-B, and PS-Temp	2.2(A)(1)(d)	The Permittee shall calculate monthly and 12-month rolling SO_2 emissions from the affected boilers within 30 days after the end of each calendar month. Calculations shall be recorded in a log (written or electronic format), according to the following formulas: i. Calculate SO_2 emissions from the previous calendar month using a specified equation. ii. Sum the SO_2 emissions from the affected boilers for the previous 12-month period to determine the 12-month rolling emission total. [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD Avoidance Report	
Natural gas / No. 2 / No. 6 fuel oil-fired boilers and natural gas / No. 2 fuel oil-fired boiler	PS-A, PS-B, and PS-Temp	2.2(A)(1)(e)	The Permittee shall submit a semi-annual summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: i. The monthly SO_2 emissions from the two affected boilers for the previous 17 calendar months; ii. The 12-month rolling SO_2 emissions for each 12-month period ending during the reporting period; and, iii. All instances of deviations from the requirements of this permit must be clearly identified. [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
All sources	All	2.2(B)(4)	40 CFR Part 68 "Accidental Release Prevention Requirements: Risk Management Programs Under The Clean Air Act, Section 112(r)" - The Permittee shall comply with all applicable requirements in accordance with 40 CFR Part 68 including submitting a Risk Management plan to EPA pursuant to 40 CFR Part 68.150 prior to June 21, 1999 or as specified in 40 CFR Part 68.10. [40 CFR Part 68]	No	Yes	NA	Review of current Risk Management Plan	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT FOR GENERAL CONDITIONS
For Calendar Year 2013

Terms and Conditions		Deviations? (Yes/No)	Records Maintained? (Yes/No/NA)	Was Deviation a non-compliance issue? (Yes / No)	Method(s) of Determining Compliance Status	Comments
Permit Condition Number	Condition Summary					
3.A	General Provisions	No	Yes	NA	Records review	
3.B	Permit available at facility	No	Yes	NA	Records review	
3.D	Submissions of reports to regional office	No	Yes	NA	Records review	
3.G	Permit modifications and applications	No	Yes	NA	Records review	
3.I.A, 3.I.B	Reporting requirements for excess emissions and permit deviations	No	Yes	NA	Records review	
3.K	Permit renewal every five year	No	Yes	NA	Records review	
3.M	Duty to submit any information requested by director	No	NA	NA	NA	
3.N	Duty to supplement	No	NA	NA	NA	
3.O	Retention of records	No	Yes	NA	Records review	
3.P	Annual compliance certification	No	Yes	NA	Records review	
3.Q	Certification by responsible official	No	Yes	NA	Records review	
3.T	Insignificant activities records available at facility	No	Yes	NA	Records review	
3.V	Inspection and entry	No	Yes	NA	DAQ inspection	
3.W	Annual fee payment	No	Yes	NA	Records review	
3.X	Annual emission inventory requirement	No	Yes	NA	Records review	
3.Z	Construction and operation permits	No	Yes	NA	Records review	
3.CC	Refrigerant requirements	No	Yes	NA	Records review	
3.DD	Prevention of accidental releases – Section 112(r)	No	Yes	NA	Records review	
3.EE	Prevention of accidental releases – Section 112(r)(1)	No	NA	NA	NA	
3.JJ	Emission testing and reporting requirements	No	NA	NA	NA	
3.LL	Reporting requirements for non-operating equipment	No	NA	NA	NA	
3.NN	Specific permit modifications	No	Yes	NA	Records review	