AE13

Chemours™

The Chemours Company
Fluoroproducts
22828 NC Hwy 87 W
Fayetteville, NC 28306-7332

910-483-4681 o
chemours.com

February 7, 2017

CERTIFIED MAIL
7002 0860 0006 9104 8498
Return Receipt Requested

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

CERTIFIED MAIL
7002 0860 0006 9104 8504
Return Receipt Requested

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

SUBJECT: 2016 Title V Air Permit – Annual Compliance Certification
Chemours Company – Fayetteville Works
Title V Permit Number 03537T43
Facility ID: 0900009

Dear Sirs:

Attached is the Chemours Company – Fayetteville Works' Title V Air Permit Annual Compliance Certification report for calendar year 2016. The required photocopy of this report is enclosed in the NCDEQ Division of Air Quality mailing.

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

Sincerely,

Michael E. Johnson, PE
Environmental Manager

Attachment / Enclosure

North Carolina Department of Environmental Quality
Division of Air Quality (DAQ)
Title V Annual Compliance Certification Forms

Facility Name:	Chemours Company – Fayetteville Works
Facility Address:	22828 NC Highway 87 W, Fayetteville, NC 28306-7332
Facility Location:	22828 NC Highway 87 W, Bladen County, NC 28306
Facility ID Number:	0900009
Title V Permit Number:	03735T41, 03735T42, and 03735T43
Start of Reporting Period:	January 1, 2016
End of Reporting Period:	December 31, 2016

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? If so, this certification **must** be submitted by **January 30**. **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 7, 2017

(Date)

Name: **Ellis H. McGaughy**

(Type or Print)

Number of Attached Pages (not including Instructions Page) **37**

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	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)	Particulates from Fuel Burning Indirect Heat Exchangers 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, PS-B, and PS-C	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, PS-B, and PS-C	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 2016	Boiler PS-C has not been constructed
Natural gas/ No. 2 fuel oil-fired boiler	PS-A, PS-B, and PS-C	2.1(A)(2)(a)	Sulfur Dioxide Emissions from Combustion Sources Emissions of sulfur dioxide from the affected boilers (ID Nos. PS-A and PS-B) when firing natural gas or No. 2 fuel oil, and from the affected boiler (ID No. PS-C) when firing natural gas only, 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.	Boiler PS-C has not been constructed
Natural gas/ No. 2 fuel oil-fired boiler	PS-A, PS-B, and PS-C	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, PS-B, and PS-C	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 2016	Boiler PS-C has not been constructed

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For Calendar Year 2016

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A	2.1(A)(3)(a)	Control of Visible Emissions 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-fired boiler	PS-C	2.1(A)(3)(c)	Visible emissions from the affected boiler (ID No. PS-C) shall not be more than 20 percent opacity when averaged over a six-minute period when natural gas is fired in the boiler. 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	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A, PS-B, and PS-C	2.1(A)(3)(d)	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, PS-B, and PS-C	2.1(A)(3)(e)	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 2016	Boiler PS-C has not been constructed

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	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)(a)	New Source Performance Standards (40 CFR 60, Subpart Dc) For the affected boiler, while firing No. 2 fuel oil only, 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	
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 and 40 CFR 60.43c(c)]	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)	The opacity standards in Section 2.1 A.4.c, above, applies at all times when firing No. 2 fuel oil, except during periods of startup, shutdown or malfunction. [40 CFR 60.43c(d)]	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)	No fuel sulfur limits or opacity limits apply under 15A NCAC 02D .0524 when firing natural gas in the affected boiler. [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)(f)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in Section 2.1 A.4.b or A.4.c, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524. [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 conduct an initial performance test using Method 9 of Appendix A-4 of 40 CFR Part 60 and in accordance with General Condition JJ to demonstrate compliance with the opacity limit in Section 2.1 A.4.c, above, and as specified in 2.1(A)(4)(g)(i) through 2.1(A)(4)(g)(iii). [40 CFR 60.47c(a)]	No	NA	NA	Boiler PS-C has not been constructed	

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For Calendar Year 2016

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(h)	To assure compliance with the fuel sulfur limit in Section 2.1 A.4.b, above, 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 information specified in 2.1(A)(4)(h)(i) through 2.1(A)(4)(h)(iii). [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)(i)	After completion of the initial performance testing in Section 2.1 A.4.g, above, the Permittee shall comply with visible emissions monitoring according to the requirements specified in 2.1(A)(4)(i)(i) through 2.1(A)(4)(i)(iii). [40 CFR 60.47c(a)(2)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(j)	The Permittee shall record and maintain records of the amounts of each fuel fired during each month. [15A NCAC 02Q .0508(f) and 40 CFR 60.48c(g)(2)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(k)	The Permittee shall maintain records of No. 2 fuel oil supplier certifications as specified in Section 2.1 A.4.h.i, above. [40 CFR 60.48c(e)(11), (f)(1)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(l)	The Permittee shall keep the opacity monitoring records specified in 2.1(A)(4)(l)(i) and 2.1(A)(4)(l)(ii). [40 CFR 60.48c(c)(1), (2)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(m)	The Permittee shall maintain records of any occurrence and duration of any startup, shutdown, or malfunction in the operation the affected boiler (ID No. PS-C). [40 CFR 60.7(b)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(n)	Paragraph (n) missing from permit	NA	NA	NA		
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(o)	All records required under Section 2.1 A.4.j through A.4.m shall be maintained by the Permittee for a period of two years following the date of such record. [40 CFR 60.48c(i)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(p)	The Permittee shall submit a construction notification of the date construction of the affected boiler (ID No. PS-C) is commenced, postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	No	NA	NA	Boiler PS-C has not been constructed	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(q)	The Permittee shall submit an initial notification to the Regional Supervisor within 15 days of actual startup of the affected boiler (ID No. PS-C). The notification shall include the information specified in 2.1(A)(4)(q)(i) and 2.1(A)(4)(q)(ii). [40 CFR 60.48c(a), 40 CFR 60.7(a)(3)]	No	NA	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-C	2.1(A)(4)(r)	The Permittee shall submit a semiannual summary report 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 noncompliance from the requirements of this permit and excess emissions must be clearly identified. The summary report shall include specified information. 15A NCAC 02Q .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)	Prevention of Significant Deterioration 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 this source	
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 specified in 2.1(A)(5)(c)(i) through 2.1(A)(5)(c)(iii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Fuel consumption and sulfur content records	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
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 formula specified in 2.1(A)(5)(d)(i) and 2.1(A)(5)(d)(ii). [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 formula specified in 2.1(A)(5)(e)(i) and 2.1(A)(5)(e)(ii). [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)(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 information specified in 2.1(A)(5)(f)(i) through 2.1(A)(5)(f)(iii). [15A NCAC 02Q .0508(f)]	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)	Case-by-Case "Boiler" MACT 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	Boiler PS-C has not been constructed

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For Calendar Year 2016

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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)(b)	The Permittee shall comply with this CAA §112(j) standard until May 19, 2019. The initial compliance date for the applicable CAA §112(d) standard for "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters" is May 20, 2019. On and after May 20, 2019, the Permittee shall comply with Section 2.1 A.7 for boilers (ID Nos. PS-A and PS-C) and Section 2.1 A.8 for boiler (ID No. PS-B). [15A NCAC 2D .1109]	No	NA	NA	This facility is following the conditions specified by this CAA §112(j) standard	Boiler PS-C has not been constructed
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(c)	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 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(d)	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 requirements specified in 2.1(A)(6)(d)(i) through 2.1(A)(6)(d)(iii). 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 10-17-2016 and 05-02-2016 respectively.	Boiler PS-C has not been constructed
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(e)	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 information specified in 2.1(A)(6)(e)(i) through 2.1(A)(6)(e)(iii). [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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For Calendar Year 2016

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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)(f)	The Permittee shall submit an initial notification according to 40 CFR 63.9(b)(4) and (5) not later than 15 days after the actual date of startup of boiler (ID No. PS-C). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Boiler PS-C has not been constructed	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-B PS-C	2.1(A)(6)(g)	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, 2015. The report shall include the information specified in 2.1(A)(6)(g)(i) through 2.1(A)(6)(g)(iv). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(a)	40 CFR 63, Subpart DDDDD – Boiler MACT For the boilers (ID Nos. PS-A and PS-C), the Permittee shall comply with all applicable provisions for the "unit designed to burn gas 1 subcategory," including the monitoring, recordkeeping, and reporting contained in 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD. [40 CFR 63.7485, 63.7490(d), 63.7499(l)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(b)	In order for the boilers (ID Nos. PS-A and PS-C) to be considered in the "unit designed to burn gas 1 subcategory," the Permittee shall only burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, and during periods of gas curtailment or gas supply interruptions of any duration. [40 CFR 63.7575]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(c)	For the purpose of Section 2.1 7.A, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply. [40 CFR 63.7575]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(d)	The Permittee shall comply with the requirements of 40 CFR 63 Subpart A, General Provisions, according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD. [40 CFR 63.7565]	No	No	NA	This condition is effective on May 20, 2019	

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		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(e)	The Permittee shall comply with the CAA §112(j) standards in Section 2.1 A.6 through May 19, 2019. i. On and after May 20, 2019, the Permittee shall comply with the requirements of Section 2.1 A.7 for the boiler (ID No. PS-A) ii. The Permittee shall comply with the requirements of this section for boiler (ID No. PS-C) on May 20, 2019 or upon startup, whichever is later. [40 CFR 63.7495(a) and (b), 63.56(b)]	No	No	NA	See Section 2.1(A)(6) Case-by-Case "Boiler" MACT	2.1(A)(7)(e) paragraphs (i) and (ii) are effective on May 20, 2019
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(f)	As specified in 40 CFR 63.9(b)(4) and (5), if the initial startup of the boiler (ID No. PS-C) is after May 20, 2019, the Permittee shall submit an Initial Notification not later than 15 days after the actual date of startup of the boiler. [40 CFR 63.7545(c)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(g)	The Permittee shall submit a Notification of Compliance Status for the boilers (ID Nos. PS-A and PS-C). The notification must be signed by a responsible official and postmarked before the close of business within 60 days of the compliance date specified in Section 2.1 A.7.e, above. [40 CFR 63.7545(e)(8) and 63.7530(e), and (f)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(h)	The Permittee shall submit a notification of intent to fire an alternative fuel within 48 hours of the declaration of each period of natural gas curtailment or supply interruption. [40 CFR 63.7545(f)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(i)	The Permittee shall comply with the work practice standards in Section 2.1 A.7.j, below at all times the boilers (ID Nos. PS-A and PS-C) are operating. [40 CFR 63.7500(f) and 63.7505(a)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(j)	The Permittee shall conduct a tune-up of the boilers (ID Nos. PS-A and PS-C) as specified below. The Permittee shall conduct the tune-up while burning the type of fuel that provided the majority of the heat input to the boiler of the 12 months prior to the tune-up. [40 CFR 63.7500(a) and 63.7540(a)(10)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(k)	The tune-ups for the boilers (ID Nos. PS-A and PS-C) shall be conducted according to the following schedule. [Table 3 of Subpart DDDDD] [40 CFR 63.7540(a)(12), 63.7515(d)]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(l)	If the boilers (ID Nos. PS-A and PS-C) are not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7515(g) and 63.7540(a)(13)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(m)	At all times, the Permittee shall operate and maintain the boiler, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.7500(a)(3)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(n)	To demonstrate initial compliance, the Permittee shall also conduct a one-time energy assessment for the existing boiler (ID No. PS-A) performed by a qualified energy assessor. The energy assessment must be conducted no later than May 20, 2019. The energy assessment must include the 32 on-site technical hours as defined in 40 CFR 63.7575. [40 CFR 63.7500(a)(1), Table 3]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(o)	The Permittee shall keep the records specified in 2.1(A)(7)(o)(i) through 2.1(A)(7)(o)(iv). [15A NCAC 02Q .0508(f)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(p)	The Permittee shall comply with the recordkeeping requirements specified in 2.1(A)(7)(p)(i) through 2.1(A)(7)(p)(iii). [15A NCAC 02Q .0508(f)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(q)	The Permittee shall submit compliance reports to the DAQ every five years. The first report shall cover the period beginning on the compliance date specified in Section 2.1 A.7.e, above, and ending on December 31 within five years after the compliance date in Section 2.1 A.7.e, above. Subsequent reports shall cover the five-year periods from January 1 to December 31. The compliance reports shall be postmarked on or before January 31. [40 CFR 63.7550(a), (b) and 63.10(a)(4), (5)]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(r)	The Permittee shall submit the annual compliance report via the CEDRI. The Permittee shall use the appropriate electronic report in CEDRI 40 CFR Part 63, Subpart DDDDD. Instead of using the electronic report in CEDRI for this 40 CFR Part 63, Subpart DDDDD, the Permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site, once the XML schema is available. If the reporting form specific to 40 CFR Part 63, Subpart DDDDD is not available in CEDRI at the time that the report is due, the Permittee shall submit the report to DAQ. The Permittee shall begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(s)	The Permittee shall include the information specified in 2.1(A)(7)(s)(i) through 2.1(A)(7)(s)(v) in the annual compliance report. [40 CFR 63.7550 and Table 9]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-A PS-C	2.1(A)(7)(t)	If the Permittee has a period of noncompliance with a work practice standard for periods of startup and shutdown during the reporting period, the compliance report must also contain the information specified in 2.1(A)(7)(t)(i) and 2.1(A)(7)(t)(ii). [40 CFR 63.7540(b), 63.7550(a) and (d) and Table 9]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(a)	40 CFR 63, Subpart DDDDD – Boiler MACT For the existing boiler (ID No. PS-B) designed to burn light liquid fuel with a heat input capacity 10 million Btu per hour or greater, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" (Subpart DDDDD) and Subpart A "General Provisions."	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(b)	For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply. [40 CFR 63.7575]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(c)	The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to Subpart 5D. [40 CFR 63.7565]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(d)	The Permittee shall comply with the CAA §112(j) standard in Section 2.1 A.6 through May 19, 2019. The Permittee shall be subject to the requirements of this standard starting May 20, 2019. [40 CFR 63.56(b) and 63.7510(e)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(e)	The Permittee shall complete the requirements specified in 2.1(A)(8)(e)(i) and 2.1(A)(8)(e)(ii). [40 CFR 63.56(b) and 63.7510(e)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(f)	At all times the boiler (ID No. PS-B) is operating, the Permittee shall be in compliance with the emission standards in Section 2.1 A.8.h, except during periods of startup and shutdown. During startup and shutdown, the Permittee shall comply with the requirements of Section 2.1 A.8.v and A.8.w. [40 CFR 63.7500(a)(3), 63.7505(a)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(g)	At all times, then Permittee shall operate and maintain the boiler (ID No. PS-B), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3), 63.7505(a)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(h)	The boiler (ID No. PS-B) shall meet the emission limits specified in the table in 2.1(A)(8)(h). [15A NCAC 02Q .0508(f), 40 CFR 63.7500(a)(1), Table 2 of 40 CFR Part 63, Subpart DDDDD]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(i)	If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test(s) are above the limit given in Section 2.1 A.8.h, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111. [15A NCAC 02Q .0508(f)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(j)	The Permittee shall submit the notifications specified in 2.1(A)(8)(j)(i) and 2.1(A)(8)(j)(ii). [40 CFR 63.9(h)(2)(ii), 63.10(d)(2), 63.7530(e) and 63.7545(e)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(k)	The Permittee shall demonstrate compliance with the CO emission limits in Section 2.1 A.8.h, above, by developing a site-specific stack test plan and conducting initial performance stack tests according to the schedule specified in Section 2.1 A.8.e, above. The Permittee shall conduct each performance stack test according to the procedures in 40 CFR 63.7520. [40 CFR 63.7510(a)(1)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(l)	The Permittee shall demonstrate initial compliance with the hydrogen chloride, mercury and total selected metal emission limits in Section 2.1 A.8.h, above, according to the requirements specified in 2.1(A)(8)(l)(i) through 2.1(A)(8)(l)(iii). [40 CFR 63.7510(a) and (b) and 63.7530(c)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(m)	The Permittee shall establish an oxygen operating limit for the oxygen trim system installed on the boiler (ID No. PS-B) according to the procedures in 40 CFR 63.7530(b)(4)(viii) and Table 7 of Part 63, Subpart DDDDD. [40 CFR 63.7510(a)(3)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(n)	The Permittee shall meet the work practice standard requirements specified in Section 2.1 A.8.s and A.8.t. The Permittee shall demonstrate initial compliance with the work practice standard according to the schedule in Section 2.1 A.8.e. [40 CFR 63.7510(e)]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(o)	If the boiler combusts ultra-low sulfur liquid fuel, the Permittee is not required to conduct subsequent performance tests (i.e., stack tests or fuel analyses) if the pollutants measured during the initial compliance performance tests meet the emission limits in Section 2.1 A.8.h. The Permittee shall demonstrate ongoing compliance with the emissions limits by monitoring and recording the type of fuel combusted on a monthly basis, as required in Section 2.1 A.8.r. [40 CFR 63.7515(h)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(p)	If the Permittee intends to use a fuel other than ultra-low sulfur liquid fuel, natural gas, refinery gas, or other gas 1 fuel, the Permittee shall conduct new performance tests (i.e., stack tests or fuel analyses) within 60 days of burning the new fuel type. In addition, the Permittee shall comply with the requirements specified in 2.1(A)(8)(p)(i) through 2.1(A)(8)(p)(iii). [40 CFR 63.7540(a)(1)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(q)	The Permittee shall install, operate, and maintain an oxygen trim system on the boiler according to the procedures specified in 2.1(A)(8)(q)(i) through 2.1(A)(8)(q)(vi). [40 CFR 63.7525(a) and (d)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(r)	The Permittee shall monitor the type and amount of all fuels burned in the boiler to demonstrate that all fuel types and mixtures of fuels burned would result in equal to or lower emissions of hydrogen chloride, mercury, and TSM than the applicable emission limit for each pollutant. [40 CFR 63.7540(a)(2)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(s)	The Permittee shall conduct the tune-up of the boiler while burning the type of fuel that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. The Permittee shall conduct the tune-up of the boiler following the requirements specified in 2.1(A)(8)(s)(i) through 2.1(A)(8)(s)(v). [40 CFR 63.7500(a), 63.7540(a)(10) and (12)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(t)	Each tune-up for the boiler shall be conducted every five years and no more than 61 months after the previous tune-up. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7515(d), 63.7515(g), and 63.7540(a)(13)]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(u)	The Permittee shall have a one-time energy assessment performed by a qualified energy assessor for the boiler. The energy assessment must address the specific requirements listed in Section 2.1 (A)(8)(u)(i) through (A)(8)(u)(v), appropriate for the on-site technical hours listed in 40 CFR 63.7575. [40 CFR 63.7500(a)(1) and Table 3 to Part 63, Subpart DDDDD]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(v)	The Permittee shall comply with all applicable emission limits at all times except during startup and shutdown periods. The Permittee shall meet the startup work practice requirements listed in Section 2.1 (A)(8)(v)(i) through A)(8)(v)(v) [15A NCAC 02D .1111]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(w)	The Permittee shall comply with all applicable emission limits at all times except during startup and shutdown periods. The Permittee shall meet the shutdown work practice requirements listed in Section 2.1 (A)(8)(w)(i) through (A)(8)(w)(vi) [15A NCAC 02D .1111]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(x)	The Permittee shall keep the records listed in Section 2.1 (A)(8)(x)(i) through (A)(8)(x)(vi). [15A NCAC 02Q .0508(f)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(y)	The Permittee shall comply with the recordkeeping requirements specified in 2.1(A)(8)(y)(i) through 2.1(A)(8)(y)(iii). [40 CFR 63.7560 and 63.10(b)(1)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(z)	The Permittee shall submit a compliance report to the DAQ on a semi-annual basis, 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. i. The first compliance report shall be postmarked on or before July 30, 2019 and cover the period from May 20, 2019 through June 30, 2019. ii. The compliance reports shall also be submitted electronically to the EPA via the procedures in 40 CFR 63.7550(h). [15A NCAC 02Q .0508(f)]	No	No	NA	This condition is effective on May 20, 2019	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(aa)	The compliance report shall contain the information specified in 2.1(A)(8)(aa)(i) and 2.1(A)(8)(aa)(ii). [40 CFR 63.7550(c)]	No	No	NA	This condition is effective on May 20, 2019	
Natural gas/ No. 2 fuel oil-fired boiler	PS-B	2.1(A)(8)(bb)	Within 60 days after the date of completing each performance test (defined in 40 CFR 63.2) including any associated fuel analyses and/or CMS performance evaluation (defined in 40 CFR 63.2) as required by 40 CFR Part 63, Subpart DDDDD, the Permittee shall submit the results to the DAQ pursuant to 40 CFR 63.10(d)(2) and to the EPA via the procedures in 40 CFR 63.7550(h). [40 CFR 63.7550(h)]	No	No	NA	This condition is effective on May 20, 2019	
IXM membrane coating process	NS-I	2.1(C)(1)(a)	Particulates from Miscellaneous Industrial Processes 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	
IXM 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	
IXM 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	
IXM 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	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
IXM membrane coating process	NS-I	2.1(C)(2)(a)	Control of Visible Emissions 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	
IXM 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	
IXM 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)(3)(a)	Prevention of Significant Deterioration 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)(3)(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	
Vinyl Ethers North process	NS-B	2.1(C)(3)(c)	To demonstrate compliance with the limit provided in Section 2.1 C.3.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, following the specified steps listed in 2.1(C)(3)(c)(i) through (C)(3)(c)(x). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	
Vinyl Ethers North process	NS-B	2.1(C)(3)(d)	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 are posted on the site webpage	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Vinyl Ethers North process	NS-B	2.1(C)(3)(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 information specified in 2.1(C)(3)(e)(i) through 2.1(C)(3)(e)(iii). [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)(4)(a)	Prevention of Significant Deterioration 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)(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	
Resins process	NS-G	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, following the specified steps listed in 2.1(C)(4)(c)(i) through (C)(4)(c)(vi). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	
Resins process	NS-G	2.1(C)(4)(d)	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 are posted on the site webpage	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

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		Permit Condition Number	Condition Summary					
Resins process	NS-G	2.1(C)(4)(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 information specified in 2.1(C)(4)(e)(i) through 2.1(C)(4)(e)(iii). [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)(5)(a)	Prevention of Significant Deterioration 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)(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	
HFPO process	NS-A	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, following the specified steps listed in 2.1(C)(5)(c)(i) through (C)(5)(c)(viii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	
HFPO process	NS-A	2.1(C)(5)(d)	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 are posted on the site webpage	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
HFPO process	NS-A	2.1(C)(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 information specified in 2.1(C)(5)(e)(i) through 2.1(C)(5)(e)(iii). [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)(6)(a)	Prevention of Significant Deterioration 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)(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	
HFPO Product Container Decontami-nation Process	NS-N	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, following the specified steps listed in 2.1(C)(6)(c)(i) through (C)(6)(c)(iii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Monthly PSD avoidance reports	
HFPO Product Container Decontami-nation Process	NS-N	2.1(C)(6)(d)	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 are posted on the site webpage	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
HFPO Product Container Decontami-nation Process	NS-N	2.1(C)(6)(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 information specified in 2.1(C)(6)(e)(i) through 2.1(C)(6)(e)(iii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	
IXM Membrane Coating Process	NS-I	2.1(C)(7)(a)	Prevention of Significant Deterioration The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements pursuant to the application for the Spray Coating Throughput Increase Project. In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the requirements in Section 2.1 C.7.b. below. [15A NCAC 02D .0530(u)]	No	Yes	NA	Annual report to NC Division of Air Quality FRO	
IXM Membrane Coating Process	NS-I	2.1(C)(7)(b)	The Permittee shall perform the specified steps listed in 2.1(C)(7)(b)(i) through (C)(7)(b)(iv). [15A NCAC 02D .0530(u) and 02Q .0308]	No	Yes	NA	Annual report to NC Division of Air Quality FRO	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(a)	NESHAP for Miscellaneous Organic Chemical Manufacturing For each miscellaneous organic chemical manufacturing process unit, MCPU, the Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in 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	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	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. [40 CFR 63.2450(p)]	No	NA	NA	NA	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(c)	The Permittee shall identify each pump, compressor, agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector, and instrumentation system in organic HAP service within each MCPU. Identification of the equipment does not require physical tagging of the equipment. The Permittee must identify equipment as specified in 2.1(C)(8)(c)(i) through 2.1(C)(8)(c)(iv). [40 CFR 63.2480(a), 40 CFR 63.1022]	No	Yes	NA	Physical tagging in field and identification on P&I drawings	Site Procedure NG-18 is the MON MACT LDAR written plan and identifies unsafe-to-monitor and unsafe-to-repair equipment.
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(d)	If the Permittee designates equipment as unsafe-to-monitor or difficult to monitor, the Permittee shall create written plans as specified below. The Permittee shall retain the written plans on-site, and make them available to NC DAQ for review upon request, including 2.1(C)(8)(d)(i) "unsafe-to-monitor equipment" and 2.1(C)(8)(d)(ii) "difficult-to-monitor equipment." [40 CFR 63.1022(c)(4)]	No	Yes	NA	Site Procedure NG-18 is the MON MACT LDAR written plan	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(e)	Valves in Light Liquid, Gas and Vapor Service The instrument reading that defines a leaking valve is 500 ppm or greater. [15A NCAC 2D .1111]	No	NA	NA	NA	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(f)	Valves in Light Liquid, Gas and Vapor Service The Permittee shall monitor valves for leaks using the instrument monitoring methods described in 40 CFR 63.1023(b)-(c) at the frequency specified in 2.1(C)(8)(f)(i) through 2.1(C)(8)(f)(v). 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). [40 CFR 63.1022(c)(4)]	No	Yes	NA	LDAR monitoring reports from Team Inc.	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(g)	Valves in Light Liquid, Gas and Vapor Service The percentage of leaking valves, used to determine the required monitoring frequency in Section 2.1(C)(7)(f) shall be calculated according to the procedures in 40 CFR 63.1025(c). [40 CFR 63.1025(c)]	No	Yes	NA	LDAR monitoring reports from Team Inc.	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(h)	Valves in Light Liquid, Gas and Vapor Service The Permittee shall create and retain a record of the monitoring schedule for each process unit. [40 CFR 63. 1025(b)(3)(vi), 40 CFR 63. 1038(c)(1)(i)]	No	Yes	NA	Scheduled and retained via SAP Work Order	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(i)	Valves in Light Liquid, Gas and Vapor Service If a leak is identified: i. It shall be repaired as provided in the repair provisions of Section 2.1(C)(7)(bb) through (C)(7)(dd). 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. [15A NCAC 2D .1111]	No	Yes	NA	Leaker Detail Report from Team Inc.	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(j)	Valves in Light Liquid, Gas and Vapor Service Any valve that is designated unsafe-to-monitor according to Section 2.1(C)(7)(c) is exempt from the monitoring and repair requirements specified in Section 2.1(C)(7)(f) and (C)(7)(i), and the Permittee shall monitor the valve according to the written plan in Section 2.1 C.7.d. [15A NCAC 2D .1111]	No	Yes	NA	Site Procedure NG-18 is the MON MACT LDAR written plan	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(k)	Valves in Light Liquid, Gas and Vapor Service Any valve that is designated as difficult-to-monitor according to Section 2.1(C)(7)(c) is exempt from the monitoring requirements of Section 2.1(C)(7)(f) and (C)(7)(i), and the Permittee shall monitor the valve according to the written plan in Section 2.1 C.7.d. [15A NCAC 2D .1111]	No	NA	NA	The site has no difficult-to-monitor valves	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(l)	Pumps in Light Liquid Service 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. [40 CFR 63.1026(b)(2)(iii) and (b)(3)]	No	NA	NA	All pumps subject to the MON MACT are designed with no externally actuated shaft penetrating the pump housing and therefore are exempt from §63.1026(b)	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(m)	Pumps in Light Liquid Service Each pump within the MCPUs 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). The Permittee shall document that the inspection was conducted and the date of the inspection. If there are indications of liquids dripping from the pump seal at the time of the weekly inspection, follow either of the procedures listed in 2.1(C)(8)(m)(i) or 2.1(C)(8)(m)(ii). [40 CFR 63.1026(b)(4), 40 CFR 63.1038(c)(2)(i)]	No	NA	NA	All pumps subject to the MON MACT are designed with no externally actuated shaft penetrating the pump housing and therefore are exempt from §63.1026(b)	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(n)	Pumps in Light Liquid Service The Permittee shall monitor affected pumps once per calendar month using the instrument monitoring methods described in 40 CFR 63.1023(b) and (c). Leaks shall be repaired as provided in Section 2.1(C)(7)(bb) through (C)(7)(dd). The Permittee shall calculate the percent leaking pumps using the procedures specified in 40 CFR 63.1026(c). [40 CFR 63.1026(b)(1), (c) and (d)]	No	NA	NA	All pumps subject to the MON MACT are designed with no externally actuated shaft penetrating the pump housing and therefore are exempt from §63.1026(b)	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(o)	Pumps in Light Liquid Service Any pump that is designated as unsafe-to-monitor according to Section 2.1 (C)(7)(c), above, is exempt from the inspection requirements provided in Section 2.1(C)(7)(m) and (C)(7)(n), above, and the Permittee shall monitor and inspect the pump in accordance with the written plan in Section 2.1(C)(7)(d). [40 CFR 63.1026(e)(6)]	No	NA	NA	There are no unsafe-to-monitor pumps	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(p)	Connectors in Gas and Vapor and Light Liquid Service The Permittee shall comply with the requirements of 40 CFR 63.1027 for connectors in gas/vapor and light liquid service. The Permittee may elect to comply with the requirements in Section 2.1(C)(7)(q) through (C)(7)(t), below, for connectors in heavy liquid service. [40 CFR 63.2480(b)(4)]	No	Yes	NA	LDAR monitoring reports from Team Inc.	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(q)	Connectors in Gas and Vapor and Light Liquid Service The Permittee shall monitor connectors in each MCPU within 5 calendar days for leaks using the instrument monitoring methods described in 40 CFR 63.1023(b) and (c), as applicable, if evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired according to Section 2.1(C)(7)(s). [40 CFR 63.1029(b)(1)]	No	Yes	NA	NA	Site operating procedures prohibit leaking equipment
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(r)	Connectors in Gas and Vapor and Light Liquid Service If an instrument reading of 500 parts per million or greater is measured as required in Section 2.1(C)(7)(q), a leak is detected. The Permittee shall repair the leak according to Section 2.1 (C)(7)(bb) through (C)(7)(dd). [40 CFR 63.1029(b)(2)]	No	Yes	NA	LDAR monitoring reports from Team Inc.	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(s)	Connectors in Gas and Vapor and Light Liquid Service For equipment identified in Section 2.1 (C)(7)(q) that is not monitored by the method specified in 40 CFR 63.1023(b) and (c), as applicable, a leak is considered repaired one of the conditions listed in 2.1(C)(8)(s)(i) through 2.1(C)(8)(s)(ii) is met. [40 CFR 63.1029(c)]	No	Yes	NA	LDAR monitoring reports from Team Inc.	All repairs are verified via use of a VOC detector instrument

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(t)	Connectors in Gas and Vapor and Light Liquid Service The following are special provisions for connectors: i. Unsafe-to-repair connectors. Any connector that is designated as unsafe-to-repair as described in Section 2.1 (C)(7)(c) is exempt from the repair requirements in Section 2.1 (C)(7)(bb). The Permittee shall monitor these connectors according to the written plan as specified in Section 2.1 (C)(7)(d). ii. Inaccessible, ceramic, or ceramic-lined connectors. Any connector that is inaccessible or that is ceramic-lined is exempt from the monitoring requirements specified in 40 CFR 63.1023(b) and (c); from the leak repair requirements of Section 2.1 (C)(7)(bb); from the recordkeeping and reporting requirements in this section. [40 CFR 63.1024(e); 40 CFR 63.1027(e)(2)]	No	Yes	NA	Site Procedure NG-18 is the MON MACT LDAR written plan	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(u)	Agitators in Gas and Vapor and Light Liquid Service The instrument reading that defines a leaking agitator is 10,000 ppm or greater. [40 CFR 63.1028]	No	NA	NA	NA	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(v)	Agitators in Gas and Vapor and Light Liquid Service The Permittee shall conduct visual and instrument inspections as provided in 2.1(C)(8)(v)(i) and 2.1(C)(8)(v)(ii). [40 CFR 63.1028]	No	Yes	NA	Weekly VEN CMT Agitator Inspection; LDAR monitoring reports from Team Inc.	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(w)	Agitators in Gas and Vapor and Light Liquid Service If the Permittee designates agitator seals as either unsafe-to-monitor or difficult-to-monitor, the permittee shall comply with the requirements specified in 2.1(C)(8)(w)(i) and 2.1(C)(8)(w)(ii). [40 CFR 63.1028]	No	Yes	NA	Site Procedure NG-18 is the MON MACT LDAR written plan	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

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		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(x)	Pressure Relief Valves 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 in Section 2.1(C)(7)(y). [40 CFR 63.1030]	No	NA	NA	Site has no pressure relief valves subject to the MON MACT	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(y)	Pressure Relief Valves The pressure relief device shall be monitored as specified in 2.1(C)(8)(y)(i) through 2.1(C)(8)(y)(iii). [40 CFR 63.1030]	No	NA	NA	Site has no pressure relief valves subject to the MON MACT	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	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. [40 CFR 63.2480(a)]	No	Yes	NA	Leaker Tags hung by Team Inc. upon discovery of a leak	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(aa)	Leak identifications that are placed on leaking equipment may be removed as specified in 2.1(C)(8)(w)(i) and 2.1(C)(8)(w)(ii). [40 CFR 63.1024(c)]	No	Yes	NA	Leaker Tags removed by Team Inc. following re-monitoring	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	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. [40 CFR 63.2480(a), 40 CFR 63, Subpart UU]	No	Yes	NA	Leaker Detail Report from Team Inc.	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

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		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(cc)	Delay of repair is allowed for any of the conditions listed in 2.1(C)(8)(cc)(i) through 2.1(C)(8)(cc)(v). 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 2016	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(ee)	For each leak detected, the information specified in 2.1(C)(8)(ee)(i) through 2.1(C)(8)(ee)(v) shall be recorded and maintained. [40 CFR 63.1023(e)(2), 40 CFR 63.1024(f), 40 CFR 63. 1038(b)]	No	Yes	NA	Leaker Detail Report from Team Inc.	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(ff)	The Permittee shall create and retain the general records as specified in 2.1(C)(8)(ff)(i) through 2.1(C)(8)(ff)(iii). [40 CFR 63.1038(b)]	No	Yes	NA	All equipment is physically tagged Site Procedure NG-18 is the MON MACT LDAR written plan	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(gg)	<u>Heat Exchanger Requirements</u> The Permittee shall 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 meet the requirements specified in 2.1(C)(8)(gg)(i) through 2.1(C)(8)(gg)(iii). [40 CFR 63.2490, 40 CFR 63.104(c)]	No	Yes	NA	Site Procedure NG-18 is the MON MACT LDAR written plan Analytical reports from TBL Laboratory	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(hh)	Heat Exchanger Requirements If a leak is detected in any heat exchanger system, the Permittee shall be repair the leak 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. [40 CFR 63.2490, 40 CFR 63.104(d)]	No	Yes	NA	Electronic Log Book on Chemours FW Intranet No leaks occurred in 2016	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(ii)	Heat Exchanger Requirements 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. [40 CFR 63.2490, 40 CFR 63.104(e)]	No	NA	NA	No delay of repairs occurred in 2016	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(jj)	Heat Exchanger Requirements For each affected heat exchanger system, the Permittee shall retain the records specified in 2.1(C)(8)(jj)(i) through 2.1(C)(8)(jj)(iv). [40 CFR 63.2490, 40 CFR 63.104(f)]	No	NA	NA	No leaks occurred in 2016	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(kk)	The Permittee shall create and retain the records specified in 2.1(C)(8)(kk)(i) through 2.1(C)(8)(kk)(vi) on each affected MCPU. [40 CFR 63.2525(b)]	No	Yes	NA	Notification of Compliance Status Report	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(ll)	Create and retain a record of each time a safety device is opened to avoid unsafe conditions. [40 CFR 63.2525(f)]	No	Yes	NA	Safety Incident Reports	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(mm)	For each affected Group 2 wastewater stream, the Permittee shall retain the records specified in 2.1(C)(8)(mm)(i) through 2.1(C)(8)(mm)(iv). [Table 7 of 40 CFR Part 63, Subpart F and 40 CFR 63.147(b)(8)]	No	Yes	NA	Notification of Compliance Status Report	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	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. [40 CFR 63.2445(d)]	No	NA	NA	No Group 2 emission points became Group 1 emission points in 2016	
FPS/IXM processes	NS-A, NS-B, NS-C, and NS-G	2.1(C)(8)(oo)	The Permittee shall submit a semi-annual compliance report 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 items specified in 2.1(C)(8)(oo)(i) through 2.1(C)(8)(oo)(xi). [40 CFR 63.2520(a), (b) and (e)]	No	Yes	NA	Semi-annual Compliance Report	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(1)(a)	Particulates from Fuel Burning Indirect Heat Exchangers 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	No rental boiler was on-site in 2016.
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	No rental boiler was on-site in 2016.
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	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(2)(a)	Sulfur Dioxide Emissions from Combustion Sources 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	No rental boiler was on-site in 2016.

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	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)(2)(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	No rental boiler was on-site in 2016.
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	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(3)(a)	Control of Visible Emissions 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 .0521]	No	NA	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.
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	No rental boiler was on-site in 2016.
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	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(4)(a)	Prevention of Significant Deterioration 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	No rental boiler was on-site in 2016.

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	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)(4)(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	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(4)(c)	The Permittee shall keep monthly records of fuel usage in a logbook (written or in electronic format), as specified in 2.1(F)(4)(c)(i) and 2.1(F)(4)(c)(ii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(4)(d)	The Permittee shall calculate monthly and 12-month rolling SO2 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 formulas specified in 2.1(F)(4)(d)(i) and 2.1(F)(4)(d)(ii). [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD avoidance reports	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(4)(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 information specified in 2.1(F)(4)(e)(i) through 2.1(F)(4)(e)(iii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(a)	Avoidance Condition – Case-by-Case MACT for Boilers Prior to May 20, 2019, in order to avoid the applicability of 15A NCAC 02D .1109NCAC 02D, the temporary boiler shall not remain on site for more than 180 consecutive days. [15A NCAC 2Q .0317]	No	Yes	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.1(F)(5)(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	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	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)(5)(c)	The Permittee shall submit a startup notification to the Fayetteville Regional Office within 15 days of startup of the temporary boiler. [15A NCAC 2Q .0317]	No	Yes	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.
Natural gas / No. 2 fuel oil-fired boilers	PS-A PS-B PS-C PS-Temp	2.2(A)(1)(a)	Prevention of Significant Deterioration 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 fuel oil-fired boilers	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 fuel oil-fired boilers	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 specified in 2.2(A)(1)(c)(i) through 2.2(A)(1)(c)(iii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Fuel Consumption Records and Certificates of Analysis from Oil Supplier	
Natural gas / No. 2 fuel oil-fired boilers	PS-A PS-B PS-C 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 formulas specified in 2.2(A)(1)(d)(i) and 2.2(A)(1)(d)(ii). [15A NCAC 2Q .0317]	No	Yes	NA	Monthly PSD Avoidance Report	
Natural gas / No. 2 fuel oil-fired boilers	PS-A PS-B PS-C 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 information specified in 2.2(A)(1)(e)(i) through 2.2(A)(1)(e)(iii). [15A NCAC 2Q .0508(f)]	No	Yes	NA	Semi-annual reports to NC Division of Air Quality FRO	

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
All sources	All	2.2(B)(3)(a)	CAA Section 112(r) – Risk Management Programs The Permittee is subject to Section 112(r) of the Clean Air Act and shall comply with all applicable requirements in accordance with 40 CFR Part 68. [40 CFR Part 68]	No	Yes	NA	Review of current Risk Management Plan	
All sources	All	2.2(B)(3)(b)	The Permittee submitted a Risk Management Plan (RMP) to EPA pursuant to 40 CFR Part 68.150 on August 18, 2014. [[15A NCAC 02Q .0508(f)]	No	Yes	NA	NA	
All sources	All	2.2(B)(3)(c)	The Permittee shall revise and update the RMP submitted under 40 CFR 68.150 by August 31, 2019, and at least once every five years after that date or most recent update required by 40 CFR 68.190(b)(2) through (b)(7), whichever is later. [40 CFR Part 68]	No	Yes	NA	NA	
All sources	All	2.2(C)(1)(a)	Option for Obtaining Construction and Operation Permit As required under 15A NCAC 02Q .0501(c)(2), the Permittee shall have one year from the date of beginning normal operation of the modified IXM Membrane Coating Process (ID No. NS-I), to file an amended application following the procedures of Section 15A NCAC 02Q .0504. [15A NCAC 02Q .0504(d)]	No	Yes	NA	The physical modification of the IXM Membrane Coating Process has not occurred	
All sources	All	2.2(C)(1)(b)	The Permittee shall notify the Regional Office, in writing, of the date of beginning normal operation of the modified IXM Membrane Coating Operation (ID Nos. NS-I) postmarked no later than 30 days after such date. [15A NCAC 02Q .0504(f)]	No	Yes	NA	The physical modification of the IXM Membrane Coating Process has not occurred	
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.3(A)	Permit Shield for Nonapplicable Requirements The NSPS for Small Industrial-Commercial-Institutional Steam Generating units (40 CFR Part 60, Subpart Dc) and 15A NCAC 02D .0524 are not applicable to the natural gas/No. 2 fuel oil-fired temporary boiler because the boiler is a temporary boiler, as defined in §60.41c, provided the criteria specified in 2.3(A)(1) through 2.3(A)(4) are met. [15A NCAC 02Q .0512(a)(1)(B)]	No	NA	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.

TITLE V AIR PERMIT COMPLIANCE SUMMARY REPORT

For Calendar Year 2016

Emission Source Description	Source or Control Device ID No.(s)	Terms and Conditions		Deviation ? (Yes/No)	Records Maintained ? (Yes / No /	Was Deviation a non-compliance	Method(s) of Determining Compliance Status	Comments
		Permit Condition Number	Condition Summary					
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.3(B)	Permit Shield for Nonapplicable Requirements The National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) and 15A NCAC 02D .1111 are not applicable to the natural gas/No. 2 fuel oil-fired temporary boiler because the boiler is a temporary boiler, as defined in §63.7575, provided the criteria in Section 2.3(A)(1) through (A)(4) are met. [15A NCAC 02Q .0512(a)(1)(B)]	No	NA	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.3(C)	Permit Shield for Nonapplicable Requirements The Permittee shall maintain the records specified in 2.3(C)(1) through 2.3(C)(4) documenting that the natural gas/No. 2 fuel oil-fired temporary boiler meets the criteria for a temporary boiler. These records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. [15A NCAC 02Q .0512(a)(1)(B)]	No	NA	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.
Natural Gas/No. 2 fuel oil-fired temporary boiler	PS-Temp	2.3(D)	Permit Shield for Nonapplicable Requirements The Permittee shall submit a startup notification to the Fayetteville Regional Office within 15 days of startup of the temporary boiler. [15A NCAC 02Q .0512(a)(1)(B)]	No	NA	NA	No rental boiler was on-site in 2016.	No rental boiler was on-site in 2016.

COMPLIANCE SUMMARY REPORT FOR GENERAL CONDITIONS

For Calendar Year 2016

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.H	Changes not requiring permit modifications	No	NA	NA	NA	No changes not requiring a permit modification in 2016
3.I.A, 3.I.B	Reporting requirements for excess emissions and permit deviations	No	Yes	NA	Records review	No excess emissions or permit deviations in 2016
3.K	Permit renewal every five year	No	Yes	NA	NA	Permit renewal application was submitted in 2014
3.M	Duty to Provide Information (submittal of information)	No	NA	NA	NA	No information was requested in 2016
3.N	Duty to supplement	No	NA	NA	NA	No supplemental information submitted in 2016
3.O	Retention of records	No	Yes	NA	Records review	
3.P	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 annual inspection	
3.W	Annual fee payment	No	Yes	NA	Records review	

COMPLIANCE SUMMARY REPORT FOR GENERAL CONDITIONS

For Calendar Year 2016

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.X	Annual emission inventory requirement	No	Yes	NA	Records review	
3.Y	Confidential information	No	NA	NA	NA	EPA requested no confidential information
3.Z	Construction and operation permits	No	Yes	NA	Records review	
3.AA	Standard application form and required information	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	Facility is required to register a 112(r) RMP
3.II	Ambient air quality standards	No	Yes	NA	Gaussian Dispersion Model	
3.JJ	Emission testing and reporting requirements	No	NA	NA	NA	No emission testing required nor performed in 2016
3.LL	Reporting requirements for non-operating equipment	No	Yes	NA	Records review	
3.NN	Specific permit modifications	No	Yes	NA	Records review	
3.OO	Third Party Participation and EPA Review	No	NA	NA	NA	A permittee has no influence with the EPA review or any 3rd party participation