

PERMIT NO. 2821-051-0148-V-05-0

ISSUANCE DATE: 02/04/2025



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

### Air Quality - Part 70 Operating Permit

**Facility Name:** Kraton Chemical, LLC  
**Facility Address:** 1201 West Lathrop Avenue  
Savannah Georgia 31415, Chatham County  
**Mailing Address:** P.O. Box 2028  
Savannah Georgia 31402  
**Parent/Holding Company:** Kraton Corporation  
**Facility AIRS Number:** 04-13-051-00148

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a Part 70 Permit for:

**The operation of a facility that manufactures adhesive esters, modified rosins, tackifiers, ink resins, tall oil products, crude tall oil, and oxidized crude tall oil.**

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit. Unless modified or revoked, this Permit expires five years after the issuance date indicated above.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above, for any misrepresentation made in Title V Application TV-785791 signed on January 2, 2024, any other applications upon which this Permit is based, supporting data entered therein or attached thereto, or any subsequent submittal of supporting data, or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **44** pages.



*Jeffrey W. Cown*

Jeffrey W. Cown, Director  
Environmental Protection Division

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**PART 1.0 FACILITY DESCRIPTION****1.1 Site Determination**

Kraton Chemical, LLC (AIRS No. 051-00148) and International Paper-Savannah Mill (AIRS No. 051-00007) are located on contiguous and/or adjacent properties, are not classified under the same industrial grouping (i.e., SIC Code "28" and "26"), and they do not operate under common control. The International Paper-Savannah Mill may provide some materials to Kraton Chemical, LLC depending on contractual arrangements.

Kraton Chemical, LLC (AIRS No. 051-00561) and Arboris, LLC (AIRS No. 051-00261) are located on contiguous properties, are classified under the same industrial grouping (i.e., SIC Code "28") but do not operate under common control. Arboris, LLC may provide some materials to Kraton Chemical, LLC depending on contractual arrangements. Kraton Chemical, LLC may provide some materials to Arboris, LLC depending on contractual arrangements.

**1.2 Previous and/or Other Names**

Union Camp Corporation  
Union Camp Corporation, Chemical Products Division  
Arizona Chemical Company, Savannah Plant

**1.3 Overall Facility Process Description**Distillation Process

In the Distillation Process, crude tall oil received from the Tall Oil Process and rail cars is fractionated in three distillation columns to produce pitch, rosin, distilled tall oil, purified fatty acids, tall oil heads and a volatile fraction. Pitch is sold for sterol extraction or fuel. The tall oil heads are sold for fuel. Fatty acids are sold as a product. Rosin is sold and is also upgraded into various resin products.

Rosin Ester Process

In the Rosin Ester Process, "hard resins" are produced. These resins are largely modified maleic resins produced through the reaction of rosin with dibasic acids to achieve hard, brittle resins. The products are either cooled on a flaker belt and the flakes are bagged for shipment or shipped in bulk in molten form. The flakes are sold to producers of lacquers, varnishes, and inks. Flaker emissions are controlled by a mist eliminator and baghouse. Vapors from the reactor vents are controlled by condensers or a thermal incinerator.

Oxidized Crude Tall Oil

In the Oxidized Crude Tall Oil Process, crude tall oil (CTO) is heated via heat exchanger, sparged with air, and then cooled down. The final product, oxidized CTO, is transferred to bulk storage and then loaded into trucks and railcars for sale into the oil and gas industry as a primary emulsifier. The reactor is controlled by a scrubber.

**Tall Oil Process**

In the Tall Oil Process, tall oil soap is reacted with sulfuric acid to form crude tall oil and sodium sulfate in a continuous reactor. In the reactor, soap skimmings, water, and sulfuric acid are charged, heated, and vigorously agitated. This reaction forms a crude tall oil/brine lignin mixture. Centrifuges continuously separate crude tall oil from the brine/lignin mixture. This liberates the fatty acids from the soap. Sulfuric acid also reacts with residual sulfides in the black liquor. The crude tall oil is piped from the Tall Oil Process to the Distillation Process.

**PART 2.0 REQUIREMENTS PERTAINING TO THE ENTIRE FACILITY**

**2.1 Facility Wide Emission Caps and Operating Limits**

- 2.1.1 The Permittee shall not discharge, nor cause the discharge, into the atmosphere from the entire facility any single hazardous air pollutant which is listed in Section 112 of the Clean Air Act, including 40 CFR 63 Subpart C, in an amount equal to or exceeding 10 tons during any consecutive twelve-month period, or any combination of such listed pollutants in an amount equal to or exceeding 25 tons during any consecutive twelve-month period.  
[Area Source Classification Under 40 CFR 63]

**2.2 Facility Wide Federal Rule Standards**

None applicable.

**2.3 Facility Wide SIP Rule Standards**

None applicable.

**2.4 Facility Wide Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit**

None applicable.

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### PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

#### 3.1 Emission Units

Emission Units		Applicable Requirements/Standards	Air Pollution Control Devices	
ID No.	Description		ID No.	Description
Boilers				
E101	Steam Boiler (139.5MMBtu/hr)	40 CFR 60 Subpart A 40 CFR 60 Subpart Db 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	None	None
TB01	Temporary Boiler	40 CFR 60 Subpart A 40 CFR 60 Subpart Db 40 CFR 60 Subpart Dc 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	None	None
TB02	Temporary Boiler	40 CFR 60 Subpart A 40 CFR 60 Subpart Db 40 CFR 60 Subpart Dc 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	None	None
Rosin Ester Process				
EU04	Rosin Ester Hold Tank (V-2391)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE04	Mist Eliminator
EU06	Drycharger for V-2301 (ME-2352)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE05	Drycharger Baghouse (ME-2352)
EU26	Pentaerythritol (PE) Storage Silo (S-2569)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE12	PE Silo Baghouse (F-2569)
EU27	PE Storage Silo (S-2568)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE13	PE Silo Baghouse (F-2568)
EU29	2301 Reactor Receiver (ME-2598B)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE15	Reactor Receiver Baghouse (F-2598B)
EU30	2501 Reactor Receiver (ME-2598C)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE16	Reactor Receiver Baghouse (F-2598C)
EU31	Dry Charger for V2501 (ME-2578)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE17	Drycharger Baghouse (ME-2578)
EU37	Resin Plant Dowtherm Vaporizer	391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	None	None
EU41	Rosin Oil Tank (V-2579)	None	CE18	Thermal Oxidizer (IN-2612)
EU70	Rosin Ester Hold Tank (V-2620)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE04	Mist Eliminator
E115	Dry Charger for Reactor 2701 (ME-2713)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE47	Reactors Dry Charger Dust Collector (ME-2713)
E116	Reactors Receiver (ME-2703)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE48	Dust Collector (ME-2703)
E117	Reactors Receiver (ME-2803)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE55	Dust Collector
E123	Hot Oil Heater (DH-2741)	391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	None	None

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Emission Units		Applicable Requirements/Standards	Air Pollution Control Devices	
ID No.	Description		ID No.	Description
E131	Flaker Packaging & Flaker Bagging	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE03	Flaker Belt Baghouse (F-2326)
E140	Rosin Ester Hold Tank (V-2761)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE53	Flaker Hold Tank Mist Eliminator
E141	Rosin Ester Hold Tank (V-2894)	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE56	Mist Eliminator
E147	Dry Charger for Reactor 2801	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CE54	Reactors Dry Charger Dust Collector
EU05	Flaker Line (ME-2301)	391-3-1-.02(2)(b)	CE03	Flaker Belt Baghouse (F-2326)
E129	Flaker Belt #2 (ME-2801)	391-3-1-.02(2)(e)	CE04	Mist Eliminator
EU40	<u>Reactors</u> V-2501	None	CE18	Thermal Oxidizer (IN-2612)
EU89	V-2301			
E113	V-2701			
E114	V-2801			
E132	<u>Light Oils Receivers</u> V-2704	None	CE18	Thermal Oxidizer (IN-2612)
E133	V-2804			
Tall Oil Plant - Distillation Process				
EU44	DV-1004 Distillation Plant Dowtherm Vaporizer	391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	None	None
EU96	T-3 Distillation Column	None	CE42  EU44	Distillation Plant Caustic Scrubber (FT-1041) DV-1004 Dowtherm Vaporizer (CE51)
Tall Oil Plant - Tall Oil Process				
EU45	Tall Oil Continuous Reactor/Degasser Tank (V-3310)	None	CE19	Top Scrubber No. 1
EU92	Center Feed Tank (V-3313)	None	CE19 CE43	Top Scrubber No. 1 Top Scrubber No. 2
EU93	Neutralization Tank (V-3003)	None	None	None
EU98	Neutralization Tank (V-3012)	None	CE19 CE43	Top Scrubber No. 1 Top Scrubber No. 2
EU99	Tall Oil Decanter System	None	CE19 CE43	Top Scrubber No. 1 Top Scrubber No. 2
Crude Tall Oil Oxidation Process				
EU02	Reactor (V-2106)	None	CE02	Wet Scrubber
Pilot Plant				
EU59	750 gallon Pilot Plant Reactor (V-750)	None	CE26	Pilot Plant Scrubber (V-300)
EU60	200 gallon Pilot Plant Reactor (V-200)	None	CE26	Pilot Plant Scrubber (V-300)

\* Generally applicable requirements contained in this permit may also apply to emission units listed above. The lists of applicable requirements/standards are intended as a compliance tool and may not be definitive.



### 3.2 Equipment Emission Caps and Operating Limits

- 3.2.1 The Permittee shall operate all boilers as “gas-fired” boilers. For purposes of this Permit, the term “gas-fired boiler” shall mean any boiler that burns gaseous fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.  
[40 CFR 63.11237 and Avoidance of 40 CFR 63 Subpart JJJJJ]
- 3.2.2 The Permittee shall only combust natural gas in each of the following:
- a. Dowtherm Vaporizer EU37.  
[Avoidance of 40 CFR 52.21; 391-3-1-.02(2)(g) - Subsumed]
  - b. Dowtherm Vaporizer EU44.  
[391-3-1-.03(2)(c); 391-3-1-.02(2)(g) - Subsumed]
  - c. Boiler E101.  
[Avoidance of 40 CFR 52.21; 391-3-1-.02(2)(g) - Subsumed]
  - d. Hot Oil Heater E123.  
[391-3-1-.03(2)(c); 391-3-1-.02(2)(g) - Subsumed]
  - e. Temporary Boiler TB01.  
[Avoidance of 40 CFR 52.21; 391-3-1-.02(2)(g) - Subsumed]
  - f. Temporary Boiler TB02.  
[Avoidance of 40 CFR 52.21; 391-3-1-.02(2)(g) - Subsumed]
- 3.2.3 The Permittee shall operate Temporary Boilers TB01 and/or TB02 only when Boiler E101 is not in operation.  
[Avoidance of 40 CFR 52.21]
- 3.2.4 The maximum design heat input of Temporary Boilers TB01 and/or TB02 operated at the facility shall not have a combined heat input of equal to or greater than 139.5 MMBtu/hr.  
[Avoidance of 40 CFR 52.21]
- 3.2.5 The Permittee shall not discharge, or cause the discharge, into the atmosphere from Rosin Ester Hold Tank E141 emissions of PM (filterable) in an amount equal to or in excess of 4.38 pounds per hour.  
[Avoidance of 40 CFR 52.21]
- 3.2.6 The Permittee shall not discharge, or cause the discharge, into the atmosphere from Rosin Ester Hold Tank E141 emissions of PM<sub>10</sub> in an amount equal to or in excess of 2.10 pounds per hour.  
[Avoidance of 40 CFR 52.21]

- 3.2.7 The Permittee shall not discharge, or cause the discharge, into the atmosphere from Rosin Ester Hold Tank E141 emissions of PM<sub>2.5</sub> in an amount equal to or in excess of 0.95 pounds per hour.  
[Avoidance of 40 CFR 52.21]
- 3.2.8 The Permittee shall not discharge, or cause the discharge, into the atmosphere from Rosin Ester Hold Tank E141 emissions of VOC in an amount equal to or in excess of 4.42 pounds per hour.  
[Avoidance of 40 CFR 52.21]
- 3.2.9 The Permittee shall operate Thermal Oxidizer CE18 to control emissions from Reactors EU40, EU89, E113 and E114, process vessel EU41, and process tanks E132 and E133 during all times of operation of any said pieces of equipment.  
[Area Source Classification for 40 CFR 63 and 391-3-1-.03(2)(c)]

### **3.3 Equipment Federal Rule Standards**

- 3.3.1 The Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart A – “General Provisions” and 40 CFR 60 Subpart Db – “Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units” for Boiler E101.  
[40 CFR 60 Subpart Db]
- 3.3.2 The Permittee shall not discharge, or cause the discharge, into the atmosphere from Boiler E101 any gases that contain nitrogen oxides (expressed as NO<sub>2</sub>) in excess of 0.20 lb/MMBtu on a 30-day rolling average basis, including periods of startup, shutdown, and malfunction.  
[40 CFR 60.44b(h), 40 CFR 60.44b(i), 40 CFR 60.44b(l)(1), OSAH-DNR-AQ-0306558-25-JGB]
- 3.3.3 The Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart Db – “Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units” for Temporary Boiler TB01 and/or Temporary Boiler TB02 if the unit has a heat input capacity of greater than 100 MMBtu/hr and no longer meets the definition of temporary fuel-burning equipment per Georgia Rule 391-3-1-.03(6)(b)15.  
[40 CFR 60 Subpart Db]
- 3.3.4 The Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart A – “General Provisions” and 40 CFR 60 Subpart Dc – “Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units” for Temporary Boiler TB01 and/or Temporary Boiler TB02 if the unit has a heat input capacity of 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr and no longer meets the definition of temporary fuel-burning equipment per Georgia Rule 391-3-1-.03(6)(b)15.  
[40 CFR 60 Subpart Dc]

### 3.4 Equipment SIP Rule Standards

3.4.1 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from emission units EU04, EU05, EU06, EU26, EU27, EU29, EU30, EU31, EU70, E115, E116, E117, E129, E131, E140, E141, and E147, each, any gases which exhibit visible emissions, the opacity of which is equal to or greater than forty (40) percent, unless otherwise specified.  
[391-3-1-.02(2)(b)1.]

3.4.2 The Permittee shall not cause, let, suffer, permit, or allow the emission from any source, particulate matter (PM) in total quantities equal to or exceeding the allowable rate as calculated using the applicable equation below, unless otherwise specified in this Permit. This rule applies to each of the following emission units separately: EU04, EU05, EU06, EU26, EU27, EU29, EU30, EU31, EU70, E115, E116, E117, E129, E131, E140, E141, and E147.  
[391-3-1-.02(2)(e)1.]

- a.  $E = 4.1P^{0.67}$ , for process input weight rate up to and including 30 tons per hour;
- b.  $E = 55P^{0.11} - 40$ , for process input weight rate in excess of 30 tons per hour.

Where:

E = allowable emission rate in pounds per hour;

P = process input weight rate in tons per hour.

3.4.3 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from Boiler E101, Dowtherm Vaporizer EU37, Dowtherm Vaporizer EU44, and any Temporary Boiler (TB01 or TB02), each, in amounts equal to or exceeding the following:  
[391-3-1-.02(2)(d)2.(ii)]

$P = 0.5(10/R)^{0.5}$  pounds per million BTU heat input

Where:

P = allowable emissions of fly ash and/or other particulate matter in pounds per million BTU heat input.

R = heat input of fuel-burning equipment in million BTU per hour.

3.4.4 The Permittee shall not cause, let suffer, permit, or allow the emission of fly ash and/or other particulate matter from Hot Oil Heater E123 in amounts equal to or exceeding 0.5 pounds per million BTU heat input.  
[391-3-1-.02(2)(d)2.(i)]

3.4.5 The Permittee shall not cause, let, suffer, permit, or allow the emission from Boiler E101, Dowtherm Vaporizer EU37, Dowtherm Vaporizer EU44, Hot Oil Heater E123, and any Temporary Boiler (TB01 or TB02), each, visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.  
[391-3-1-.02(2)(d)3.]

**3.5 Equipment Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit**

- 3.5.1 The Permittee shall operate Top Scrubbers Nos. 1 or 2 (CE19 and/or CE43) during all periods of operation of the Tall Oil Plant -Tall Oil Process (EU45, EU92, EU98, and EU99). The Permittee shall monitor and record pressure drop, scrubbant recirculation rate, and scrubbant pH once per 24 hours in a manner consistent with good air pollution control practices.  
[391-3-1-.02(2)(a)(10)]

**PART 4.0 REQUIREMENTS FOR TESTING****4.1 General Testing Requirements**

- 4.1.1 The Permittee shall cause to be conducted a performance test at any specified emission unit when so directed by the Environmental Protection Division (“Division”). The test results shall be submitted to the Division within 60 days of the completion of the testing. Any tests shall be performed and conducted using methods and procedures that have been previously specified or approved by the Division.  
[391-3-1-.02(6)(b)1(i)]
- 4.1.2 The Permittee shall provide the Division thirty (30) days (or sixty (60) days for tests required by 40 CFR Part 63) prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.  
[391-3-1-.02(3)(a) and 40 CFR 63.7(b)(1)]
- 4.1.3 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division’s Procedures for Testing and Monitoring Sources of Air Pollutants. The methods for the determination of compliance with emission limits listed under Sections 3.2, 3.3, 3.4 and 3.5 are as follows:
- a. Method 1 shall be used for the determination of sample point locations,
  - b. Method 2 shall be used for the determination of stack gas flow rate,
  - c. Method 3 or 3A shall be used for the determination of stack gas molecular weight,
  - d. Method 3B for the determination of emission rate correction factor or excess air. Method 3A may be used as an alternative to Method 3B,
  - e. Method 4 shall be used for the determination of stack moisture,
  - f. Method 5 shall be used for determination of particulate matter emissions,
  - g. Method 201A and 202 shall be used for determination of total particulate matter, PM<sub>10</sub>, PM<sub>2.5</sub>. As an alternative, Methods 5 and 202 may be used,
  - h. Method 9 and the Procedures of Section 1.3 of the above reference document for determination of the opacity,
  - i. Method 18 for the measurement of gaseous organic compound emissions by gas chromatography,
  - j. Method 19 shall be used, when applicable, to convert particulate matter concentration (i.e., grains per dry standard cubic feet (dscf)), as determined using other methods specified in this section, and

- k. Method 25 for the determination of total gaseous non-methane organic emissions as carbon.

Minor changes in methodology may be specified or approved by the Director or his designee when necessitated by process variables, changes in facility design, or improvement or corrections that, in his opinion, render those methods or procedures, or portions thereof, more reliable.

[391-3-1-.02(3)(a)]

- 4.1.4 The Permittee shall submit performance test results to the US EPA's Central Data Exchange (CDX) using the Compliance and Emissions Data Reporting Interface (CEDRI) in accordance with any applicable NSPS or NESHAP standards (40 CFR 60 or 40 CFR 63) that contain Electronic Data Reporting Requirements. This Condition is only applicable if required by an applicable standard and for the pollutant(s) subject to said standard.

[391-3-1-.02(8)(a) and 391-3-1-.02(9)(a)]

## 4.2 Specific Testing Requirements

- 4.2.1 For Boiler E101 the Permittee shall, upon request, determine compliance with the NO<sub>x</sub> (expressed as NO<sub>2</sub>) emission limitation in Condition 3.3.2 through the use of a 30-day performance test using the Continuous Monitoring System (CMS) required by Condition 5.2.1. For the purpose of monitoring during periods when performance tests are not requested, NO<sub>x</sub> emissions data collected by the CMS shall be used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare the report required by Condition 6.1.4. A new 30-day rolling average emission rate is calculated each *steam generating unit operating day* as the average of all the hourly NO<sub>x</sub> emission data for the preceding 30 *steam generating unit operating days*.

[40 CFR 60.46b(e)(4)]

- 4.2.2 For the purpose of this Permit, the definition of a *steam generating unit operating day* shall be any 24-hour period between 12:00 midnight and the following midnight during which any fuel (except for that which is used for a pilot light or other comparable igniter) is combusted at any time in the steam generating unit. It is not necessary for the fuel to be combusted continuously for the entire 24-hour period.

[40 CFR 60.41b]

**PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)****5.1 General Monitoring Requirements**

- 5.1.1 Any continuous monitoring system required by the Division and installed by the Permittee shall be in continuous operation and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Monitoring system response, relating only to calibration checks and zero and span adjustments, shall be measured and recorded during such periods. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.  
[391-3-1-.02(6)(b)1]

**5.2 Specific Monitoring Requirements**

- 5.2.1 The Permittee shall install, calibrate, maintain, and operate a Predictive Emission Monitoring System (PEMS), as allowed by 40 CFR 60.48b(g) for Boiler E101 to monitor NO<sub>x</sub> emissions, and shall comply with the PEMS plan approved by the Division. The Division approved AMP [*Predictive Emissions Monitoring System for the New Power Boiler – Final Report and Documentation*] is dated October 17, 2002.  
[391-3-1-.02(6)(b)1., 40 CFR 60.48b(g)(2), 40 CFR 60.49b(c), and 40 CFR 70.6(a)(3)(i)]
- a. The output of the PEMS shall be recorded in terms of pounds NO<sub>x</sub> per MMBtu, where NO<sub>x</sub> is expressed as NO<sub>2</sub>.
  - b. At approximately twelve-month intervals, a Relative Accuracy Test Audit (RATA) shall be conducted on the NO<sub>x</sub> PEMS using the procedures of Performance Specification 2 and any other applicable Performance Specification of the Division's Procedures for Testing and Monitoring Sources of Air Pollutants. Results of the RATA shall be submitted to the Division within 60 days of completion of the RATA.
  - c. The results of the annual RATA may be used to modify the PEMS equation. However, the Division must approve the changes to the PEMS equation before they are used to predict NO<sub>x</sub> emissions.
- 5.2.2 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated parameters on the following equipment. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. The combustion zone temperature of Thermal Oxidizer CE18 at a position prior to any substantial heat loss/exchange. The hourly average combustion zone temperature shall be calculated using all data points collected but not less than four data points equally spaced over each hour. Such temperature monitoring device shall have an accuracy of ±2% (deg. F).  
[Area Source Classification Under 40 CFR 63]

- 5.2.3 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. Scrubber CE02 – scrubbant flow rate. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
  - b. Scrubber CE02 – pH of the scrubbant. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
  - c. Baghouse CE03 – pressure drop across the device. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]
  - d. Mist Eliminator CE04 – pressure drop across the device. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]
  - e. Scrubber CE42 – scrubbant flow rate. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
  - f. Scrubber CE42 – percentage, by weight, of caustic in the recirculated scrubbant. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
  - g. Mist Eliminator CE53 – pressure drop across the device. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1. And 40 CFR 70.6(a)(3)(i)]
  - h. Mist Eliminator CE56 – pressure drop across the device. Data shall be recorded at least once per shift.  
[391-3-1-.02(6)(b)1. And 40 CFR 70.6(a)(3)(i)]
  - i. Boiler E101 – quantity of natural gas, in million cubic feet, burned. Data shall be recorded daily.  
[40 CFR 60.49b(d)(1)]



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- 5.2.4 The Permittee shall maintain a Preventive Maintenance Plan for Baghouses CE03, CE05, CE12, CE13, CE15, CE16, and CE17 and Dust Collectors CE47, CE48, CE54, and CE55 to ensure that the provisions of Condition 3.4.1 and 3.4.2 are met. The program shall be subject to review and modification by the Division. At a minimum, the following operation and maintenance checks shall be made, and a record of the findings and corrective actions taken shall be kept in a maintenance log.  
[391-3-1-.02(6)(b)1. and 40 CFR 70.6(a)(3)(i)]
- a. Check the baghouses for proper operation on a weekly basis.
    - i. For baghouses equipped with compressed air cleaning systems, check the system for proper operation. This may include check for low pressures, leaks, proper lubrication, and proper operation of timer and valves.
    - ii. For baghouses equipped with reverse air cleaning systems, check the system for proper operation. This may include checking damper, bypass, and isolation valves for proper operation.
    - iii. For baghouses equipped with shaker cleaning systems, check the system for proper operation. This may include checking shaker mechanisms for loose or worn bearings, drive components, mountings; proper operation of outlet/isolation valves; proper lubrication.
  - b. Check dust collector hoppers and conveying systems for proper operation, on a weekly basis.
- 5.2.5 The following pollutant specific emission unit(s) (PSEU) is/are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

Emission Unit	Pollutant
EU04 – Rosin Ester Hold Tank (V-2391)	PM
EU70 – Rosin Ester Hold Tank (V-2620)	PM
E140 – Rosin Ester Hold Tank (V-2761)	PM
E141 – Rosin Ester Hold Tank (V-2891)	PM(filterable), PM <sub>10</sub> , PM <sub>2.5</sub>

Permit conditions in this permit for the PSEU(s) listed above with regulatory citation 40 CFR 70.6(a)(3)(i) are included for the purpose of complying with 40 CFR 64. In addition, the Permittee shall meet the requirements, as applicable, of 40 CFR 64.7, 64.8, and 64.9.  
[40 CFR 64]

- 5.2.6 The Permittee shall comply with the performance criteria listed in the table below for the PM emissions from Rosin Ester Hold Tanks EU04 and EU70 which are controlled by Mist Eliminator CE04.  
[40 CFR 64.6(c)(1)(iii)]

<b>Performance Criteria [64.4(a)(3)]</b>	<b>Indicator No. 1 Pressure Drop on Mist Eliminator</b>
A. Data Representativeness [64.3(b)(1)]	The pressure drop monitor is certified by the manufacturer to have an accuracy of $\pm 5\%$ over the operating range.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	Not applicable as monitoring equipment is not new or modified.
C. QA/QC Practices and Criteria [64.3(b)(3)]	Monitors will be calibrated and maintained per manufacturer's recommendations.
D. Monitoring Frequency [64.3(b)(4)]	Monitor the pressure drop across the mist eliminator once per day.
E. Data Collection Procedures [64.3(b)(4)]	Personnel will record pressure drop in a written or electronic log once per day.
F. Averaging Period [64.3(b)(4)]	Instantaneous Reading.

- 5.2.7 The Permittee shall comply with the performance criteria listed in the table below for the PM emissions from Rosin Ester Hold Tank E140 as controlled by Mist Eliminator CE53.  
[40 CFR 64.6(c)(1)(iii)]

<b>Performance Criteria [64.4(a)(3)]</b>	<b>Indicator No. 1 Pressure Drop on Mist Eliminator</b>
A. Data Representativeness [64.3(b)(1)]	The pressure drop monitor is certified by the manufacturer to have an accuracy of $\pm 5\%$ over the operating range.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	Not applicable as monitoring equipment is not new or modified.
C. QA/QC Practices and Criteria [64.3(b)(3)]	Monitors will be calibrated and maintained per manufacturer's recommendations.
D. Monitoring Frequency [64.3(b)(4)]	Monitor the pressure drop across the mist eliminator once per day.
E. Data Collection Procedures [64.3(b)(4)]	Personnel will record pressure drop in a written or electronic log once per day.
F. Averaging Period [64.3(b)(4)]	Instantaneous Reading.

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- 5.2.8 The Permittee shall comply with the performance criteria listed in the table below for the PM(filterable), PM<sub>10</sub>, and PM<sub>2.5</sub> emissions from Rosin Ester Hold Tank E141 as controlled by Mist Eliminator CE56.  
[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Pressure Drop on Mist Eliminator
A. Data Representativeness [64.3(b)(1)]	The pressure drop monitor is certified by the manufacturer to have an accuracy of $\pm 5\%$ over the operating range.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	Not applicable as monitoring equipment is not new or modified.
C. QA/QC Practices and Criteria [64.3(b)(3)]	Monitors will be calibrated and maintained per manufacturer's recommendations.
D. Monitoring Frequency [64.3(b)(4)]	Monitor the pressure drop across the mist eliminator once per day.
E. Data Collection Procedures [64.3(b)(4)]	Personnel will record pressure drop in a written or electronic log once per day.
F. Averaging Period [64.3(b)(4)]	Instantaneous Reading.

**PART 6.0 RECORD KEEPING AND REPORTING REQUIREMENTS****6.1 General Record Keeping and Reporting Requirements**

6.1.1 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and to the EPA. The records shall be retained for at least five (5) years following the date of entry. [391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)]

6.1.2 In addition to any other reporting requirements of this Permit, the Permittee shall report to the Division in writing, within seven (7) days, any deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning, or emissions control equipment for a period of four hours or more which results in excessive emissions.

The Permittee shall submit a written report that shall contain the probable cause of the deviation(s), duration of the deviation(s), and any corrective actions or preventive measures taken.

[391-3-1-.02(6)(b)1(iv), 391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(iii)(B)]

6.1.3 The Permittee shall submit written reports of any failure to meet an applicable emission limitation or standard contained in this permit and/or any failure to comply with or complete a work practice standard or requirement contained in this permit which are not otherwise reported in accordance with Conditions 6.1.4 or 6.1.2. Such failures shall be determined through observation, data from any monitoring protocol, or by any other monitoring which is required by this permit. The reports shall cover each semiannual period ending June 30 and December 31 of each year, shall be postmarked by August 29 and February 28, respectively following each reporting period, and shall contain the probable cause of the failure(s), duration of the failure(s), and any corrective actions or preventive measures taken. [391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(iii)(B)]

6.1.4 The Permittee shall submit a written report containing any excess emissions, exceedances, and/or excursions as described in this permit and any monitor malfunctions for each semiannual period ending June 30 and December 31 of each year. All reports shall be postmarked by or August 29 and February 28, respectively following each reporting period. In the event that there have not been any excess emissions, exceedances, excursions or malfunctions during a reporting period, the report should so state. Otherwise, the contents of each report shall be as specified by the Division's Procedures for Testing and Monitoring Sources of Air Pollutants and shall contain the following:  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(iii)(A)]

- a. A summary report of excess emissions, exceedances and excursions, and monitor downtime, in accordance with Section 1.5(c) and (d) of the above referenced document, including any failure to follow required work practice procedures.
- b. Total process operating time during each reporting period.

- c. The magnitude of all excess emissions, exceedances and excursions computed in accordance with the applicable definitions as determined by the Director, and any conversion factors used, and the date and time of the commencement and completion of each time period of occurrence.
- d. Specific identification of each period of such excess emissions, exceedances, and excursions that occur during startups, shutdowns, or malfunctions of the affected facility. Include the nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.
- e. The date and time identifying each period during which any required monitoring system or device was inoperative (including periods of malfunction) except for zero and span checks, and the nature of the repairs, adjustments, or replacement. When the monitoring system or device has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- f. Certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

6.1.5 Where applicable, the Permittee shall keep the following records:  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(ii)(A)]

- a. The date, place, and time of sampling or measurement;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.

6.1.6 The Permittee shall maintain files of all required measurements, including continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system or monitoring device calibration checks; and adjustments and maintenance performed on these systems or devices. These files shall be kept in a permanent form suitable for inspection and shall be maintained for a period of at least five (5) years following the date of such measurements, reports, maintenance and records.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6 (a)(3)(ii)(B)]

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(iii)]

- a. Excess emissions: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)

None required to be reported in accordance with Condition 6.1.4.

- b. Exceedances: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

- i. Any consecutive twelve-month period in which emissions of any single facility-wide HAP equal or exceed 10 tons.

[Area Source Classification Under 40 CFR 63]

- ii. Any consecutive twelve-month period in which total facility-wide HAP emissions equal or exceed 25 tons.

[Area Source Classification Under 40 CFR 63]

- iii. Any 30-day rolling average NO<sub>x</sub> emission rate (lb/MMBtu, expressed as NO<sub>2</sub>) that exceeds 0.20 lb/MMBtu for Boiler E101.

[40 CFR 60.49b(g)(4)]

- iv. Any period of time in which the total heat input of Temporary Boilers TB01 and TB02 equals or exceeds 139.5 MMBtu/hr, on a combined basis.

[Avoidance of 40 CFR 52.21]

- c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)

- i. Scrubber CE02 – Any three (3) consecutive readings for scrubbant flow rate, recorded in accordance with Condition 5.2.3, that is less than 10 gallons per minute, or the most recent value approved by the Division.

- ii. Scrubber CE02 – Any three (3) consecutive readings for pH, recorded in accordance with Condition 5.2.3, that is less than 11, or the most recent value approved by the Division.

- iii. Baghouse CE03 – Any three (3) consecutive readings for pressure drop, recorded in accordance with Condition 5.2.3 that is less than 0.20 inches of water or greater than 40.0 inches of water, or the most recent range approved by the Division.

- iv. Mist Eliminator CE04 – Any three (3) consecutive readings for pressure drop, recorded in accordance with Condition 5.2.3, across that is less than 0.20 inches of water or greater than 20.0 inches of water, or the most recent value approved by the Division.
- v. Scrubber CE42 – Any three (3) consecutive readings for scrubbant flow rate, recorded in accordance with Condition 5.2.3, that is less than 65 gallons per minute, or the most recent value approved by the Division.
- vi. Scrubber CE42 – Any three (3) consecutive readings for the percentage, by weight, of caustic in the recirculated scrubbant, recorded in accordance with Condition 5.2.3, that is less than 7.8, or the most recent value approved by the Division.
- vii. Mist Eliminator CE53 – Any three (3) consecutive readings for pressure drop, recorded in accordance with Condition 5.2.3, that is less than 0.20 inches of water or greater than 20.0 inches of water, or the most recent value approved by the Division.
- viii. Mist Eliminator CE56 – Any three (3) consecutive readings for pressure drop, recorded in accordance with Condition 5.2.3, that is less than 0.20 inches of water or greater than 20.0 inches of water, or the most recent value approved by the Division.
- ix. Thermal Oxidizer CE18 – Any three-hour average during which the combustion zone temperature is less than 1,325 degrees Fahrenheit during periods of process operation, or the most recent value approved by the Division.  
[Area Source Classification of 40 CFR 63]
- x. Thermal Oxidizer CE18 – Any period of process operation during which any emissions units listed in Condition 3.2.9 bypass the Thermal Oxidizer or during which the Thermal Oxidizer is not operational.  
[Area Source Classification of 40 CFR 63]

## **6.2 Specific Record Keeping and Reporting Requirements**

- 6.2.1 The Permittee shall maintain the following records for each steam generating unit operating day for Boiler E101 in a manner suitable for inspection and/or submittal to the Division upon request:
  - a. Amount of natural gas (in MMcf) combusted each day.  
[40 CFR 60.49b(d)(1)]
  - b. The annual capacity factor for natural gas. The annual capacity factor is determined on a twelve-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.  
[40 CFR 60.49b)(d)(1)]

- c. Calendar date for each steam generating unit operating day.  
[40 CFR 60.49b(g)(1)]
  - d. The average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub> and in lb/MMBtu heat input) measured or predicted for each steam generating unit operating day.  
[40 CFR 60.49b(g)(2)]
  - e. The 30-day average NO<sub>x</sub> emissions rates (in lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly NO<sub>x</sub> emission rates for the preceding 30 steam generating unit operating days.  
[40 CFR 60.49b(g)(3)]
  - f. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the NO<sub>x</sub> emission standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.  
[40 CFR 60.49b(g)(4)]
  - g. Identification of the steam operating unit days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data, and a description of corrective actions taken.  
[40 CFR 60.49b(g)(5)]
  - h. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data for each steam generating unit operating day.  
[40 CFR 60.49b(g)(6)]
- 6.2.2 The Permittee shall include the records required to be maintained by Condition 6.2.1 with the submission of the semiannual report as required by Condition 6.1.4 of this Permit.  
[40 CFR 60.49b(i)]
- 6.2.3 The Permittee shall maintain the following records in a format suitable for inspection or submittal by the Division:  
[391-3-1-.02(6)(b)1. and 40 CFR 70.6(a)(3)(i)]
- a. Monthly records of the amount of natural gas (MMcf) fired in Dowtherm Vaporizer EU37.  
[Avoidance of 40 CFR 52.21]
  - b. Monthly records of the amount of natural gas (MMcf) fired in Temporary Boiler TB01.  
[Avoidance of 40 CFR 52.21]
  - c. Monthly records of the amount of natural gas (MMcf) fired in Temporary Boiler TB02.  
[Avoidance of 40 CFR 52.21]



- d. The date and duration of time of operation of Reactors EU59 and EU60 and of Scrubber CE26. This record shall also include the product manufactured and the type of scrubbant used in Scrubber CE26.
  - e. A log of all periods that any emissions from the equipment listed in Condition 3.2.9 bypass Thermal Oxidizer CE18 or are emitted uncontrolled because Thermal Oxidizer CE18 is not operational. The log shall indicate:  
[Area Source Classification Under 40 CFR 63]
    - i. The date and time of the occurrence;
    - ii. Cause of the occurrence and corrective action(s) taken; and
    - iii. The date and time operation is resumed.
  - f. A log of all periods of time that Temporary Boiler TB01 and/or TB02 is operated when Boiler E101 is not in operation. The log shall indicate:  
[Avoidance of 40 CFR 52.21]
    - i. The date and time of the occurrence;
    - ii. Duration of the occurrence; and
    - iii. The date and time operation of Boiler E101 is resumed.
- 6.2.4 The Permittee shall maintain an emission calculation protocol for determining actual emissions of both individual and total hazardous air pollutants emitted from the entire facility on a monthly basis. The protocol shall include methods such as emission factors based on the most recent testing, other emission factors, software, equations, hours of operation, throughput rates, MSDSs, and any other methods deemed appropriate for determining hazardous air pollutant emissions on a monthly basis from facility-wide raw material usage, material handling, storage tank losses, fuel combustion, chemical mixing and reacting, bypassing of Thermal Oxidizer CE18, non-routine emissions such as spills, safety vents, and tank cleanouts, fugitive emissions, and from any other source of hazardous air pollutant emissions at the facility. The protocol, and any subsequent modifications to the protocol, shall be subject to approval by the Division. The Permittee shall maintain a copy of the Division approved protocol on site at all times.  
[Area Source Classification Under 40 CFR 63, 391-3-1-.02(6)(b)1. and 40 CFR 70.6(a)(3)(i)]

- 6.2.5 The Permittee shall determine and record the individual and total hazardous air pollutant monthly mass emissions from the entire facility. The Permittee shall use the Division approved hazardous air pollutant protocol established in Condition 6.2.4. The Permittee shall notify the Division in writing if any individual hazardous air pollutant emissions exceed 0.833 tons during any calendar month or if total hazardous air pollutant emissions exceed 2.08 tons during any calendar month. This notification shall be postmarked by the 15th day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the emission limit in Condition 2.1.1. These records, including calculations, shall be maintained as part of the monthly record suitable for inspection or submittal as requested by the Division.  
[Area Source Classification Under 40 CFR 63, 391-3-1-.02(6)(b)1. and 40 CFR 70.6(a)(3)(i)]
- 6.2.6 The Permittee shall use the calculations required by Condition 6.2.5 to determine the twelve-month rolling total emissions of each individual HAP for each month and the twelve-month rolling total combined HAP emissions for each month from the entire facility for each calendar month. Each month's twelve-month rolling total shall be the sum of the current month's emissions plus the previous eleven months' emissions. The Permittee shall notify the Division in writing if the combined HAP emissions from the entire facility equal or exceed 25 tons and/or any individual HAP equals or exceeds 10 tons during any consecutive twelve-month period. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to attain compliance with the emission limit in Condition 2.1.1. These records, including calculations, shall be maintained as part of the monthly record suitable for inspection or submittal as requested by the Division.  
[Area Source Classification Under 40 CFR 63, 391-3-1-.02(6)(b)1. and 40 CFR 70.6(a)(3)(i)]

**PART 7.0 OTHER SPECIFIC REQUIREMENTS****7.1 Operational Flexibility**

7.1.1 The Permittee may make Section 502(b)(10) changes as defined in 40 CFR 70.2 without requiring a Permit revision, if the changes are not modifications under any provisions of Title I of the Federal Act and the changes do not exceed the emissions allowable under the Permit (whether expressed therein as a rate of emissions or in terms of total emissions). For each such change, the Permittee shall provide the Division and the EPA with written notification as required below in advance of the proposed changes and shall obtain any Permits required under Rules 391-3-1-.03(1) and (2). The Permittee and the Division shall attach each such notice to their copy of this Permit.

[391-3-1-.03(10)(b)5 and 40 CFR 70.4(b)(12)(i)]

- a. For each such change, the Permittee's written notification and application for a construction Permit shall be submitted well in advance of any critical date (typically at least 3 months in advance of any commencement of construction, Permit issuance date, etc.) involved in the change, but no less than seven (7) days in advance of such change and shall include a brief description of the change within the Permitted facility, the date on which the change is proposed to occur, any change in emissions, and any Permit term or condition that is no longer applicable as a result of the change.
- b. The Permit shield described in Condition 8.16.1 shall not apply to any change made pursuant to this condition.

**7.2 Off-Permit Changes**

7.2.1 The Permittee may make changes that are not addressed or prohibited by this Permit, other than those described in Condition 7.2.2 below, without a Permit revision, provided the following requirements are met:

[391-3-1-.03(10)(b)6 and 40 CFR 70.4(b)(14)]

- a. Each such change shall meet all applicable requirements and shall not violate any existing Permit term or condition.
- b. The Permittee must provide contemporaneous written notice to the Division and to the EPA of each such change, except for changes that qualify as insignificant under Rule 391-3-1-.03(10)(g). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the Permit shield in Condition 8.16.1.
- d. The Permittee shall keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the Permit, and the emissions resulting from those changes.

7.2.2 The Permittee shall not make, without a Permit revision, any changes that are not addressed or prohibited by this Permit, if such changes are subject to any requirements under Title IV of the Federal Act or are modifications under any provision of Title I of the Federal Act.  
[Rule 391-3-1-.03(10)(b)7 and 40 CFR 70.4(b)(15)]

**7.3 Alternative Requirements**

[White Paper #2]

Not Applicable

**7.4 Insignificant Activities**

(see Attachment B for the list of Insignificant Activities in existence at the facility at the time of permit issuance)

**7.5 Temporary Sources**

[391-3-1-.03(10)(d)5 and 40 CFR 70.6(e)]

Not Applicable

**7.6 Short-term Activities**

Not Applicable

**7.7 Compliance Schedule/Progress Reports**

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(4)]

None Applicable

**7.8 Emissions Trading**

[391-3-1-.03(10)(d)1(ii) and 40 CFR 70.6(a)(10)]

Not Applicable

**7.9 Acid Rain Requirements**

Not Applicable

**7.10 Prevention of Accidental Releases (Section 112(r) of the 1990 CAAA)**

[391-3-1-.02(10)]

7.10.1 When and if the requirements of 40 CFR Part 68 become applicable, the Permittee shall comply with all applicable requirements of 40 CFR Part 68, including the following.

- a. The Permittee shall submit a Risk Management Plan (RMP) as provided in 40 CFR 68.150 through 68.185. The RMP shall include a registration that reflects all covered processes.

- b. For processes eligible for Program 1, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a. and the following additional requirements:
  - i. Analyze the worst-case release scenario for the process(es), as provided in 40 CFR 68.25; document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 40 CFR 68.22(a); and submit in the RMP the worst-case release scenario as provided in 40 CFR 68.165.
  - ii. Complete the five-year accident history for the process as provided in 40 CFR 68.42 and submit in the RMP as provided in 40 CFR 68.168.
  - iii. Ensure that response actions have been coordinated with local emergency planning and response agencies.
  - iv. Include a certification in the RMP as specified in 40 CFR 68.12(b)(4).
- c. For processes subject to Program 2, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a., 7.10.1.b. and the following additional requirements:
  - i. Develop and implement a management system as provided in 40 CFR 68.15.
  - ii. Conduct a hazard assessment as provided in 40 CFR 68.20 through 68.42.
  - iii. Implement the Program 2 prevention steps provided in 40 CFR 68.48 through 68.60 or implement the Program 3 prevention steps provided in 40 CFR 68.65 through 68.87.
  - iv. Develop and implement an emergency response program as provided in 40 CFR 68.90 through 68.95.
  - v. Submit as part of the RMP the data on prevention program elements for Program 2 processes as provided in 40 CFR 68.170.
- d. For processes subject to Program 3, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a., 7.10.1.b. and the following additional requirements:
  - i. Develop and implement a management system as provided in 40 CFR 68.15.
  - ii. Conduct a hazard assessment as provided in 40 CFR 68.20 through 68.42.
  - iii. Implement the prevention requirements of 40 CFR 68.65 through 68.87.
  - iv. Develop and implement an emergency response program as provided in 40 CFR 68.90 through 68.95.
  - v. Submit as part of the RMP the data on prevention program elements for Program 3 as provided in 40 CFR 68.175.
- e. All reports and notification required by 40 CFR Part 68 must be submitted electronically using RMP\*eSubmit (information for establishing an account can be found at [www.epa.gov/rmp/rmpesubmit](http://www.epa.gov/rmp/rmpesubmit)). Electronic Signature Agreements should be mailed to:

MAIL

**Risk Management Program (RMP) Reporting Center**  
**P.O. Box 10162**  
**Fairfax, VA 22038**

## COURIER &amp; FEDEX

**Risk Management Program (RMP) Reporting Center**  
**CGI Federal**  
**12601 Fair Lakes Circle**  
**Fairfax, VA 22033**

Compliance with all requirements of this condition, including the registration and submission of the RMP, shall be included as part of the compliance certification submitted in accordance with Condition 8.14.1.

**7.11 Stratospheric Ozone Protection Requirements (Title VI of the CAAA of 1990)**

- 7.11.1 If the Permittee performs any of the activities described below or as otherwise defined in 40 CFR Part 82, the Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliance must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to 40 CFR 82.166.  
[Note: "MVAC-like appliance" is defined in 40 CFR 82.152.]
  - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

- 7.11.2 If the Permittee performs a service on motor (fleet) vehicles and if this service involves an ozone-depleting substance (refrigerant) in the MVAC, the Permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term “MVAC” as used in Subpart B does not include air-tight sealed refrigeration systems used for refrigerated cargo, or air conditioning systems on passenger buses using HCFC-22 refrigerant.

## **7.12 Revocation of Existing Permits and Amendments**

The following Air Quality Permits, Amendments, and 502(b)10 are subsumed by this permit and are hereby revoked:

<b>Air Quality Permit and Amendment Number(s)</b>	<b>Dates of Original Permit or Amendment Issuance</b>
2821-051-0148-V-04-0	July 8, 2019
2821-051-0148-V-04-1	December 11, 2019
2821-051-0148-V-04-2	June 29, 2020
2821-051-0148-V-04-3	June 22, 2023

## **7.13 Pollution Prevention**

Not Applicable

## **7.14 Specific Conditions**

Not Applicable

**PART 8.0 GENERAL PROVISIONS****8.1 Terms and References**

- 8.1.1 Terms not otherwise defined in the Permit shall have the meaning assigned to such terms in the referenced regulation.
- 8.1.2 Where more than one condition in this Permit applies to an emission unit and/or the entire facility, each condition shall apply and the most stringent condition shall take precedence.  
[391-3-1-.02(2)(a)2]

**8.2 EPA Authorities**

- 8.2.1 Except as identified as “State-only enforceable” requirements in this Permit, all terms and conditions contained herein shall be enforceable by the EPA and citizens under the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.  
[40 CFR 70.6(b)(1)]
- 8.2.2 Nothing in this Permit shall alter or affect the authority of the EPA to obtain information pursuant to 42 U.S.C. 7414, “Inspections, Monitoring, and Entry.”  
[40 CFR 70.6(f)(3)(iv)]
- 8.2.3 Nothing in this Permit shall alter or affect the authority of the EPA to impose emergency orders pursuant to 42 U.S.C. 7603, “Emergency Powers.”  
[40 CFR 70.6(f)(3)(i)]

**8.3 Duty to Comply**

- 8.3.1 The Permittee shall comply with all conditions of this operating Permit. Any Permit noncompliance constitutes a violation of the Federal Clean Air Act and the Georgia Air Quality Act and/or State rules and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application. Any noncompliance with a Permit condition specifically designated as enforceable only by the State constitutes a violation of the Georgia Air Quality Act and/or State rules only and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(i)]
- 8.3.2 The Permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the Permitted activity in order to maintain compliance with the conditions of this Permit.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(ii)]
- 8.3.3 Nothing in this Permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of Permit issuance.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(f)(3)(ii)]



- 8.3.4 Issuance of this Permit does not relieve the Permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Director or any other federal, state, or local agency.  
[391-3-1-.03(10)(e)1(iv) and 40 CFR 70.7(a)(6)]

#### **8.4 Fee Assessment and Payment**

- 8.4.1 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of fee shall be determined each year in accordance with the “Procedures for Calculating Air Permit Fees.”  
[391-3-1-.03(9)]

#### **8.5 Permit Renewal and Expiration**

- 8.5.1 This Permit shall remain in effect for five (5) years from the issuance date. The Permit shall become null and void after the expiration date unless a timely and complete renewal application has been submitted to the Division at least six (6) months, but no more than eighteen (18) months prior to the expiration date of the Permit.  
[391-3-1-.03(10)(d)1(i), (e)2, and (e)3(ii) and 40 CFR 70.5(a)(1)(iii)]
- 8.5.2 Permits being renewed are subject to the same procedural requirements, including those for public participation and affected State and EPA review, that apply to initial Permit issuance.  
[391-3-1-.03(10)(e)3(i)]
- 8.5.3 Notwithstanding the provisions in 8.5.1 above, if the Division has received a timely and complete application for renewal, deemed it administratively complete, and failed to reissue the Permit for reasons other than cause, authorization to operate shall continue beyond the expiration date to the point of Permit modification, reissuance, or revocation.  
[391-3-1-.03(10)(e)3(iii)]

#### **8.6 Transfer of Ownership or Operation**

- 8.6.1 This Permit is not transferable by the Permittee. Future owners and operators shall obtain a new Permit from the Director. The new Permit may be processed as an administrative amendment if no other change in this Permit is necessary, and provided that a written agreement containing a specific date for transfer of Permit responsibility coverage and liability between the current and new Permittee has been submitted to the Division at least thirty (30) days in advance of the transfer.  
[391-3-1-.03(4)]

#### **8.7 Property Rights**

- 8.7.1 This Permit shall not convey property rights of any sort, or any exclusive privileges.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(iv)]

**8.8 Submissions**

- 8.8.1 Reports, test data, monitoring data, notifications, annual certifications, and requests for revision and renewal shall be submitted to:

**Georgia Department of Natural Resources  
Environmental Protection Division  
Air Protection Branch  
Atlanta Tradeport, Suite 120  
4244 International Parkway  
Atlanta, Georgia 30354-3908**

- 8.8.2 Any records, compliance certifications, and monitoring data required by the provisions in this Permit to be submitted to the EPA shall be sent to:

**Air and Radiation Division  
Air Planning and Implementation Branch  
U. S. EPA Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303-3104**

- 8.8.3 Any application form, report, or compliance certification submitted pursuant to this Permit shall contain a certification by a responsible official of its truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [391-3-1-.03(10)(c)2, 40 CFR 70.5(d) and 40 CFR 70.6(c)(1)]

- 8.8.4 Unless otherwise specified, all submissions under this permit shall be submitted to the Division only.

**8.9 Duty to Provide Information**

- 8.9.1 The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the Permit application, shall promptly submit such supplementary facts or corrected information to the Division. [391-3-1-.03(10)(c)5]

- 8.9.2 The Permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall also furnish to the Division copies of records that the Permittee is required to keep by this Permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the EPA, if necessary, along with a claim of confidentiality. [391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(v)]

## 8.10 Modifications

- 8.10.1 Prior to any source commencing a modification as defined in 391-3-1-.01(pp) that may result in air pollution and not exempted by 391-3-1-.03(6), the Permittee shall submit a Permit application to the Division. The application shall be submitted sufficiently in advance of any critical date involved to allow adequate time for review, discussion, or revision of plans, if necessary. Such application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity of the plant before and after the change, and the anticipated completion date of the change. The application shall be in the form of a Georgia air quality Permit application to construct or modify (otherwise known as a SIP application) and shall be submitted on forms supplied by the Division, unless otherwise notified by the Division.

[391-3-1-.03(1) through (8)]

## 8.11 Permit Revision, Revocation, Reopening and Termination

- 8.11.1 This Permit may be revised, revoked, reopened and reissued, or terminated for cause by the Director. The Permit will be reopened for cause and revised accordingly under the following circumstances:

[391-3-1-.03(10)(d)1(i)]

- a. If additional applicable requirements become applicable to the source and the remaining Permit term is three (3) or more years. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if the effective date of the requirement is later than the date on which the Permit is due to expire, unless the original permit or any of its terms and conditions has been extended under Condition 8.5.3;

[391-3-1-.03(10)(e)6(i)(I)]

- b. If any additional applicable requirements of the Acid Rain Program become applicable to the source;

[391-3-1-.03(10)(e)6(i)(II)] (Acid Rain sources only)

- c. The Director determines that the Permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Permit; or

[391-3-1-.03(10)(e)6(i)(III) and 40 CFR 70.7(f)(1)(iii)]

- d. The Director determines that the Permit must be revised or revoked to assure compliance with the applicable requirements.

[391-3-1-.03(10)(e)6(i)(IV) and 40 CFR 70.7(f)(1)(iv)]

- 8.11.2 Proceedings to reopen and reissue a Permit shall follow the same procedures as applicable to initial Permit issuance and shall affect only those parts of the Permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable.

[391-3-1-.03(10)(e)6(ii)]

- 8.11.3 Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Director at least thirty (30) days in advance of the date the Permit is to be reopened, except that the Director may provide a shorter time period in the case of an emergency.  
[391-3-1-.03(10)(e)6(iii)]
- 8.11.4 All Permit conditions remain in effect until such time as the Director takes final action. The filing of a request by the Permittee for any Permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance, shall not stay any Permit condition.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(iii)]
- 8.11.5 A Permit revision shall not be required for changes that are explicitly authorized by the conditions of this Permit.
- 8.11.6 A Permit revision shall not be required for changes that are part of an approved economic incentive, marketable Permit, emission trading, or other similar program or process for change which is specifically provided for in this Permit.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(8)]

## **8.12 Severability**

- 8.12.1 Any condition or portion of this Permit which is challenged, becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this Permit.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(5)]

## **8.13 Excess Emissions Due to an Emergency**

- 8.13.1 An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(1)]
- 8.13.2 An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the Permittee demonstrates, through properly signed contemporaneous operating logs or other relevant evidence, that:  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(2) and (3)]
- a. An emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. The Permitted facility was at the time of the emergency being properly operated;

- c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in the Permit; and
  - d. The Permittee promptly notified the Division and submitted written notice of the emergency to the Division within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- 8.13.3 In an enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency shall have the burden of proof.  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(4)]
- 8.13.4 The emergency conditions listed above are in addition to any emergency or upset provisions contained in any applicable requirement.  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(5)]

## **8.14 Compliance Requirements**

### **8.14.1 Compliance Certification**

The Permittee shall provide written certification to the Division and to the EPA, at least annually, of compliance with the conditions of this Permit. The annual written certification shall be postmarked no later than February 28 of each year and shall be submitted to the Division and to the EPA. The certification shall include, but not be limited to, the following elements:

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(5)]

- a. The identification of each term or condition of the Permit that is the basis of the certification;
- b. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent, based on the method or means designated in paragraph c below. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred;
- c. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
- d. Any other information that must be included to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information; and
- e. Any additional requirements specified by the Division.

#### 8.14.2 Inspection and Entry

- a. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the Division to perform the following:  
[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(2)]
  - i. Enter upon the Permittee's premises where a Part 70 source is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this Permit;
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this Permit; and
  - iv. Sample or monitor any substances or parameters at any location during operating hours for the purpose of assuring Permit compliance or compliance with applicable requirements as authorized by the Georgia Air Quality Act.
- b. No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for Permit revocation and assessment of civil penalties.  
[391-3-1-.07 and 40 CFR 70.11(a)(3)(i)]

#### 8.14.3 Schedule of Compliance

- a. For applicable requirements with which the Permittee is in compliance, the Permittee shall continue to comply with those requirements.  
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(A)]
- b. For applicable requirements that become effective during the Permit term, the Permittee shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement.  
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(B)]
- c. Any schedule of compliance for applicable requirements with which the source is not in compliance at the time of Permit issuance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based.  
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(C)]

#### 8.14.4 Excess Emissions

- a. Excess emissions resulting from startup, shutdown, or malfunction of any source which occur though ordinary diligence is employed shall be allowed provided that:  
[391-3-1-.02(2)(a)7(i)]
  - i. The best operational practices to minimize emissions are adhered to;

- ii. All associated air pollution control equipment is operated in a manner consistent with good air pollution control practice for minimizing emissions; and
- iii. The duration of excess emissions is minimized.
- b. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of Chapter 391-3-1 of the Georgia Rules for Air Quality Control.  
[391-3-1-.02(2)(a)7(ii)]
- c. The provisions of this condition and Georgia Rule 391-3-1-.02(2)(a)7 shall apply only to those sources which are not subject to any requirement under Georgia Rule 391-3-1-.02(8) – New Source Performance Standards or any requirement of 40 CFR, Part 60, as amended concerning New Source Performance Standards.  
[391-3-1-.02(2)(a)7(iii)]

## 8.15 Circumvention

### State Only Enforceable Condition.

- 8.15.1 The Permittee shall not build, erect, install, or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of the pollutants in the gases discharged into the atmosphere.  
[391-3-1-.03(2)(c)]

## 8.16 Permit Shield

- 8.16.1 Compliance with the terms of this Permit shall be deemed compliance with all applicable requirements as of the date of Permit issuance provided that all applicable requirements are included and specifically identified in the Permit.  
[391-3-1-.03(10)(d)6]
- 8.16.2 Any Permit condition identified as “State only enforceable” does not have a Permit shield.

## 8.17 Operational Practices

- 8.17.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate the source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on any information available to the Division that may include, but is not limited to, monitoring results, observations of the opacity or other characteristics of emissions, review of operating and maintenance procedures or records, and inspection or surveillance of the source.  
[391-3-1-.02(2)(a)10]

**State Only Enforceable Condition.**

- 8.17.2 No person owning, leasing, or controlling, the operation of any air contaminant sources shall willfully, negligently or through failure to provide necessary equipment or facilities or to take necessary precautions, cause, permit, or allow the emission from said air contamination source or sources, of such quantities of air contaminants as will cause, or tend to cause, by themselves, or in conjunction with other air contaminants, a condition of air pollution in quantities or characteristics or of a duration which is injurious or which unreasonably interferes with the enjoyment of life or use of property in such area of the State as is affected thereby. Complying with Georgia's Rules for Air Quality Control Chapter 391-3-1 and Conditions in this Permit, shall in no way exempt a person from this provision.  
[391-3-1-.02(2)(a)1]

**8.18 Visible Emissions**

- 8.18.1 Except as may be provided in other provisions of this Permit, the Permittee shall not cause, let, suffer, permit or allow emissions from any air contaminant source the opacity of which is equal to or greater than forty (40) percent.  
[391-3-1-.02(2)(b)1]

**8.19 Fuel-burning Equipment**

- 8.19.1 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from any fuel-burning equipment with rated heat input capacity of less than 10 million Btu per hour, in operation or under construction on or before January 1, 1972 in amounts equal to or exceeding 0.7 pounds per million BTU heat input.  
[391-3-1-.02(2)(d)]
- 8.19.2 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from any fuel-burning equipment with rated heat input capacity of less than 10 million Btu per hour, constructed after January 1, 1972 in amounts equal to or exceeding 0.5 pounds per million BTU heat input.  
[391-3-1-.02(2)(d)]
- 8.19.3 The Permittee shall not cause, let, suffer, permit, or allow the emission from any fuel-burning equipment constructed or extensively modified after January 1, 1972, visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.  
[391-3-1-.02(2)(d)]

**8.20 Sulfur Dioxide**

- 8.20.1 Except as may be specified in other provisions of this Permit, the Permittee shall not burn fuel containing more than 2.5 percent sulfur, by weight, in any fuel burning source that has a heat input capacity below 100 million Btu's per hour.  
[391-3-1-.02(2)(g)]



## 8.21 Particulate Emissions

- 8.21.1 Except as may be specified in other provisions of this Permit, the Permittee shall not cause, let, permit, suffer, or allow the rate of emission from any source, particulate matter in total quantities equal to or exceeding the allowable rates shown below. Equipment in operation, or under construction contract, on or before July 2, 1968, shall be considered existing equipment. All other equipment put in operation or extensively altered after said date is to be considered new equipment.

[391-3-1-.02(2)(e)]

- a. The following equations shall be used to calculate the allowable rates of emission from new equipment:

$E = 4.1P^{0.67}$ ; for process input weight rate up to and including 30 tons per hour.

$E = 55P^{0.11} - 40$ ; for process input weight rate above 30 tons per hour.

- b. The following equation shall be used to calculate the allowable rates of emission from existing equipment:

$E = 4.1P^{0.67}$

In the above equations, E = emission rate in pounds per hour, and  
P = process input weight rate in tons per hour.

## 8.22 Fugitive Dust

[391-3-1-.02(2)(n)]

- 8.22.1 Except as may be specified in other provisions of this Permit, the Permittee shall take all reasonable precautions to prevent dust from any operation, process, handling, transportation or storage facility from becoming airborne. Reasonable precautions that could be taken to prevent dust from becoming airborne include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials, stockpiles, and other surfaces that can give rise to airborne dusts;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods can be employed during sandblasting or other similar operations;
- d. Covering, at all times when in motion, open bodied trucks transporting materials likely to give rise to airborne dusts; and
- e. The prompt removal of earth or other material from paved streets onto which earth or other material has been deposited.

8.22.2 The opacity from any fugitive dust source shall not equal or exceed 20 percent.

### 8.23 Solvent Metal Cleaning

- 8.23.1 Except as may be specified in other provisions of this Permit, the Permittee shall not cause, suffer, allow, or permit the operation of a cold cleaner degreaser subject to the requirements of Georgia Rule 391-3-1-.02(2)(ff) "Solvent Metal Cleaning" unless the following requirements for control of emissions of the volatile organic compounds are satisfied:  
[391-3-1-.02(2)(ff)1]
- a. The degreaser shall be equipped with a cover to prevent escape of VOC during periods of non-use,
  - b. The degreaser shall be equipped with a device to drain cleaned parts before removal from the unit,
  - c. If the solvent volatility is 0.60 psi or greater measured at 100 °F, or if the solvent is heated above 120 °F, then one of the following control devices must be used:
    - i. The degreaser shall be equipped with a freeboard that gives a freeboard ratio of 0.7 or greater, or
    - ii. The degreaser shall be equipped with a water cover (solvent must be insoluble in and heavier than water), or
    - iii. The degreaser shall be equipped with a system of equivalent control, including but not limited to, a refrigerated chiller or carbon adsorption system.
  - d. Any solvent spray utilized by the degreaser must be in the form of a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which will not cause excessive splashing, and
  - e. All waste solvent from the degreaser shall be stored in covered containers and shall not be disposed of by such a method as to allow excessive evaporation into the atmosphere.

### 8.24 Incinerators

- 8.24.1 Except as specified in the section dealing with conical burners, no person shall cause, let, suffer, permit, or allow the emissions of fly ash and/or other particulate matter from any incinerator subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators", in amounts equal to or exceeding the following:  
[391-3-1-.02(2)(c)1-4]
- a. Units with charging rates of 500 pounds per hour or less of combustible waste, including water, shall not emit fly ash and/or particulate matter in quantities exceeding 1.0 pound per hour.

- b. Units with charging rates in excess of 500 pounds per hour of combustible waste, including water, shall not emit fly ash and/or particulate matter in excess of 0.20 pounds per 100 pounds of charge.
- 8.24.2 No person shall cause, let, suffer, permit, or allow from any incinerator subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators", visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.
- 8.24.3 No person shall cause or allow particles to be emitted from an incinerator subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators" which are individually large enough to be visible to the unaided eye.
- 8.24.4 No person shall operate an existing incinerator subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators" unless:
  - a. It is a multiple chamber incinerator;
  - b. It is equipped with an auxiliary burner in the primary chamber for the purpose of creating a pre-ignition temperature of 800°F; and
  - c. It has a secondary burner to control smoke and/or odors and maintain a temperature of at least 1500°F in the secondary chamber.

## 8.25 Volatile Organic Liquid Handling and Storage

- 8.25.1 The Permittee shall ensure that each storage tank subject to the requirements of Georgia Rule 391-3-1-.02(2)(vv) "Volatile Organic Liquid Handling and Storage" is equipped with submerged fill pipes. For the purposes of this condition and the permit, a submerged fill pipe is defined as any fill pipe with a discharge opening which is within six inches of the tank bottom.  
[391-3-1-.02(2)(vv)(1)]

## 8.26 Use of Any Credible Evidence or Information

- 8.26.1 Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit, for the purpose of submission of compliance certifications or establishing whether or not a person has violated or is in violation of any emissions limitation or standard, nothing in this permit or any Emission Limitation or Standard to which it pertains, shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.  
[391-3-1-.02(3)(a)]

**8.27 Internal Combustion Engines**

- 8.27.1 For diesel-fired internal combustion engine(s) manufactured after April 1, 2006 or modified/reconstructed after July 11, 2005, the Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A - "General Provisions" and 40 CFR 60 Subpart IIII – "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines." Such requirements include but are not limited to:  
[40 CFR 60.4200]
- a. Equip all emergency generator engines with non-resettable hour meters in accordance with Subpart IIII.
  - b. Purchase only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division in accordance with Subpart IIII.
  - c. Conduct engine maintenance prescribed by the engine manufacturer in accordance with Subpart IIII.
  - d. Limit non-emergency operation of each emergency generator to 100 hours per year in accordance with Subpart IIII. Non-emergency operation other than maintenance and readiness testing is prohibited for engines qualifying as "emergency generators" for the purposes of Ga Rule 391-3-1-.02(2)(mmm).
  - e. Maintain any records in accordance with Subpart IIII
  - f. Maintain a list of engines subject to 40 CFR 60 Subpart IIII, including the date of manufacture.[391-3-1-.02(6)(b)]
- 8.27.2 The Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A - "General Provisions" and 40 CFR 60 Subpart JJJJ - "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines," for spark ignition internal combustion engine(s) (gasoline, natural gas, liquefied petroleum gas or propane-fired) manufactured after July 1, 2007 or modified/reconstructed after June 12, 2006.  
[40 CFR 60.4230]

- 8.27.3 The Permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAP) as found in 40 CFR 63 Subpart A - "General Provisions" and 40 CFR 63 Subpart ZZZZ - "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines."

For diesel-fired emergency generator engines defined as "existing" in 40 CFR 63 Subpart ZZZZ (constructed prior to June 12, 2006 for area sources of HAP, constructed prior to June 12, 2006 for  $\leq 500$ hp engines at major sources, and constructed prior to December 19, 2002 for  $>500$ hp engines at major sources of HAP), such requirements (if applicable) include but are not limited to:

[40 CFR 63.6580]

- a. Equip all emergency generator engines with non-resettable hour meters in accordance with Subpart ZZZZ.
- b. Purchase only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division in accordance with Subpart ZZZZ.
- c. Conduct the following in accordance with Subpart ZZZZ.
  - i. Change oil and filter every 500 hours of operation or annually, whichever comes first
  - ii. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first and replace as necessary
  - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.
- d. Limit non-emergency operation of each emergency generator to 100 hours per year in accordance with Subpart ZZZZ. Non-emergency operation other than maintenance and readiness testing is prohibited for engines qualifying as "emergency generators" for the purposes of Ga Rule 391-3-1-.02(2)(mmm).
- e. Maintain any records in accordance with Subpart ZZZZ
- f. Maintain a list of engines subject to 40 CFR 63 Subpart ZZZZ, including the date of manufacture.[391-3-1-.02(6)(b)]

## 8.28 Boilers and Process Heaters

- 8.28.1 If the facility/site is an area source of Hazardous Air Pollutants, the Permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A - "General Provisions" and 40 CFR 63 Subpart JJJJJ - "National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers."  
[40 CFR 63.11193]

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- 8.28.2 If the facility/site is a major source of Hazardous Air Pollutants, the Permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A - "General Provisions" and 40 CFR 63 Subpart DDDDD - "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters."  
[40 CFR 63.7480]

**Attachments**

- A. List of Standard Abbreviations and List of Permit Specific Abbreviations
- B. Insignificant Activities Checklist, Insignificant Activities Based on Emission Levels and Generic Emission Groups
- C. List of References

## List Of Standard Abbreviations

[illegible]

PEMS	Predictive Emissions Monitoring System
RATA	Relative Accuracy Test Audit
PSEU	Pollutant Specific Emission Unit
CFA	Crude Fatty Acid



**ATTACHMENT B**

**NOTE:** Attachment B contains information regarding insignificant emission units/activities and groups of generic emission units/activities in existence at the facility at the time of Permit issuance. Future modifications or additions of insignificant emission units/activities and equipment that are part of generic emissions groups may not necessarily cause this attachment to be updated.

**INSIGNIFICANT ACTIVITIES CHECKLIST**

<b>Category</b>	<b>Description of Insignificant Activity/Unit</b>	<b>Quantity</b>
<b>Mobile Sources</b>	1. Cleaning and sweeping of streets and paved surfaces	
<b>Combustion Equipment</b>	1. Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.	1
	2. Small incinerators that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act and are not considered a "designated facility" as specified in 40 CFR 60.32e of the Federal emissions guidelines for Hospital/Medical/Infectious Waste Incinerators, that are operating as follows:	
	i) Less than 8 million BTU/hr heat input, firing types 0, 1, 2, and/or 3 waste.	
	ii) Less than 8 million BTU/hr heat input with no more than 10% pathological (type 4) waste by weight combined with types 0, 1, 2, and/or 3 waste.	
	iii) Less than 4 million BTU/hr heat input firing type 4 waste. (Refer to 391-3-1-.03(10)(g)2.(ii) for descriptions of waste types)	
	3. Open burning in compliance with Georgia Rule 391-3-1-.02 (5).	
	4. Stationary engines burning:	
	i) Natural gas, LPG, gasoline, dual fuel, or diesel fuel which are used exclusively as emergency generators shall not exceed 500 hours per year or 200 hours per year if subject to Georgia Rule 391-3-1-.02(2)(mmm).7	
	ii) Natural gas, LPG, and/or diesel fueled generators used for emergency, peaking, and/or standby power generation, where the combined peaking and standby power generation do not exceed 200 hours per year.	
	iii) Natural gas, LPG, and/or diesel fuel used for other purposes, provided that the output of each engine does not exceed 400 horsepower and that no individual engine operates for more than 2,000 hours per year.	
	iv) Gasoline used for other purposes, provided that the output of each engine does not exceed 100 horsepower and that no individual engine operates for more than 500 hours per year.	
<b>Trade Operations</b>	1. Brazing, soldering, and welding equipment, and cutting torches related to manufacturing and construction activities whose emissions of hazardous air pollutants (HAPs) fall below 1,000 pounds per year.	22
<b>Maintenance, Cleaning, and Housekeeping</b>	1. Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system (or collector) serving them exclusively.	
	2. Portable blast-cleaning equipment.	1
	3. Non-Perchloroethylene Dry-cleaning equipment with a capacity of 100 pounds per hour or less of clothes.	
	4. Cold cleaners having an air/vapor interface of not more than 10 square feet and that do not use a halogenated solvent.	2
	5. Non-routine clean out of tanks and equipment for the purposes of worker entry or in preparation for maintenance or decommissioning.	
	6. Devices used exclusively for cleaning metal parts or surfaces by burning off residual amounts of paint, varnish, or other foreign material, provided that such devices are equipped with afterburners.	
	7. Cleaning operations: Alkaline phosphate cleaners and associated cleaners and burners.	

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## INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
<b>Laboratories and Testing</b>	1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.	50
	2. Research and development facilities, quality control testing facilities and/or small pilot projects, where combined daily emissions from all operations are not individually major or are support facilities not making significant contributions to the product of a collocated major manufacturing facility.	3
<b>Pollution Control</b>	1. Sanitary waste water collection and treatment systems, except incineration equipment or equipment subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	2
	2. On site soil or groundwater decontamination units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	3. Bioremediation operations units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	4. Landfills that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
<b>Industrial Operations</b>	1. Concrete block and brick plants, concrete products plants, and ready mix concrete plants producing less than 125,000 tons per year.	
	2. Any of the following processes or process equipment which are electrically heated or which fire natural gas, LPG or distillate fuel oil at a maximum total heat input rate of not more than 5 million BTU's per hour:	
	i) Furnaces for heat treating glass or metals, the use of which do not involve molten materials or oil-coated parts.	
	ii) Porcelain enameling furnaces or porcelain enameling drying ovens.	
	iii) Kilns for firing ceramic ware.	
	iv) Crucible furnaces, pot furnaces, or induction melting and holding furnaces with a capacity of 1,000 pounds or less each, in which sweating or distilling is not conducted and in which fluxing is not conducted utilizing free chlorine, chloride or fluoride derivatives, or ammonium compounds.	
	v) Bakery ovens and confection cookers.	
	vi) Feed mill ovens.	
	vii) Surface coating drying ovens	
	3. Carving, cutting, routing, turning, drilling, machining, sawing, surface grinding, sanding, planing, buffing, shot blasting, shot peening, or polishing; ceramics, glass, leather, metals, plastics, rubber, concrete, paper stock or wood, also including roll grinding and ground wood pulping stone sharpening, provided that:	18
	i) Activity is performed indoors; &	
	ii) No significant fugitive particulate emissions enter the environment; &	
	iii) No visible emissions enter the outdoor atmosphere.	
	4. Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy (e.g., blueprint activity, photographic developing and microfiche).	
	5. Grain, food, or mineral extrusion processes	
	6. Equipment used exclusively for sintering of glass or metals, but not including equipment used for sintering metal-bearing ores, metal scale, clay, fly ash, or metal compounds.	
	7. Equipment for the mining and screening of uncrushed native sand and gravel.	
	8. Ozonization process or process equipment.	
	9. Electrostatic powder coating booths with an appropriately designed and operated particulate control system.	
	10. Activities involving the application of hot melt adhesives where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	
	11. Equipment used exclusively for the mixing and blending water-based adhesives and coatings at ambient temperatures.	
	12. Equipment used for compression, molding and injection of plastics where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	
	13. Ultraviolet curing processes where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	

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### INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
<b>Storage Tanks and Equipment</b>	1. All petroleum liquid storage tanks storing a liquid with a true vapor pressure of equal to or less than 0.50 psia as stored.	2
	2. All petroleum liquid storage tanks with a capacity of less than 40,000 gallons storing a liquid with a true vapor pressure of equal to or less than 2.0 psia as stored that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	1
	3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.	3
	4. All pressurized vessels designed to operate in excess of 30 psig storing petroleum fuels that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	5. Gasoline storage and handling equipment at loading facilities handling less than 20,000 gallons per day or at vehicle dispensing facilities that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.	500
	7. All chemical storage tanks used to store a chemical with a true vapor pressure of less than or equal to 10 millimeters of mercury (0.19 psia).	94

### INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity
Barometric Water Decanters (S-1026a, S-1029)	2
Clarifier Oil Decanter (S-1026b)	1
Emulsified Tall Oil Byproduct (S-2018)	1
Metal Oxide Slurry Tanks (V-2126, V-2127)	2
Odor Knock Out Pots (V-1414, V-1415)	2
Pilot Plant Dowtherm Vaporizer	1
Pilot Plant Dry Charger (750 reactor)	1
Pilot Plant WFE	1
Plant Versamix Reactor	1
Resin Plant Flaker Belt AC Unit	1
Stationary Diesel-Fired Emergency Fire Pump Engines	2
Stationary Diesel-Fueled Emergency Effluent Pump Engine	1
Tank S-2117	1
Rosin Tanks (S-2565, S-2566, S-2206)	3
Batch Oil Decanter Tank (V-2708)	1
Light Oil Accumulation Tank	1
Process Condensate Tank (V-2709)	1
Tank S-2742	1
Crude Tall Oil Decanters (V-2107 and V-2325)	2
Recycle Drum (V-2311)	1
Crude Tall Oil Product Storage Tanks (S-2351 and S-2111)	2
CTO Product Loadout	1

**ATTACHMENT B (continued)****GENERIC EMISSION GROUPS**

Emission units/activities appearing in the following table are subject only to one or more of Georgia Rules 391-3-1-.02 (2) (b), (e) &/or (n). Potential emissions of particulate matter, from these sources based on TSP, are less than 25 tons per year per process line or unit in each group. Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

Description of Emissions Units / Activities	Number of Units (if appropriate)	Applicable Rules		
		Opacity Rule (b)	PM from Mfg Process Rule (e)	Fugitive Dust Rule (n)
Not applicable.				

The following table includes groups of fuel burning equipment subject only to Georgia Rules 391-3-1-.02 (2) (b) & (d). Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

Description of Fuel Burning Equipment	Number of Units
Fuel burning equipment with a rated heat input capacity of less than 10 million BTU/hr burning only natural gas and/or LPG.	3
Fuel burning equipment with a rated heat input capacity of less than 5 million BTU/hr, burning only distillate fuel oil, natural gas and/or LPG.	2
Any fuel burning equipment with a rated heat input capacity of 1 million BTU/hr or less.	0

**ATTACHMENT C****LIST OF REFERENCES**

1. The Georgia Rules for Air Quality Control Chapter 391-3-1. All Rules cited herein which begin with 391-3-1 are State Air Quality Rules.
2. Title 40 of the Code of Federal Regulations; specifically 40 CFR Parts 50, 51, 52, 60, 61, 63, 64, 68, 70, 72, 73, 75, 76 and 82. All rules cited with these parts are Federal Air Quality Rules.
3. ***Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Testing and Monitoring Sources of Air Pollutants.***
4. ***Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Calculating Air Permit Fees.***
5. Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources. This information may be obtained from EPA's TTN web site at [www.epa.gov/ttn/chief/ap42/index.html](http://www.epa.gov/ttn/chief/ap42/index.html).
6. The latest properly functioning version of EPA's **TANKS** emission estimation software. The software may be obtained from EPA's TTN web site at [www.epa.gov/ttn/chief/software/tanks/index.html](http://www.epa.gov/ttn/chief/software/tanks/index.html).
7. The Clean Air Act (42 U.S.C. 7401 et seq).
8. White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995 (White Paper #1).
9. White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program, March 5, 1996 (White Paper #2).