

Part 70 Operating Permit

Permit Number: 2499-271-0022-V-04-0 **Effective Date:**

Facility Name: Telfair Forest Products, LLC

Facility Address: 11 West Industrial Blvd.
Lumber City, Georgia 31549 (Telfair County)

Mailing Address: 238 Ridge Circle
Dublin, Georgia 31021

Parent/Holding Company: Telfair Forest Products, LLC

Facility AIRS Number: 04-13-271-00022

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 pine shavings manufacturing plant with a gas-fired burner (BU3) rated at 40 MMBtu/hour and a pellet mill with a pellet furnish direct-fired dryer DR2 heated by a wood dust-fired burner BU2 rated at 64 MMBtu/hr.

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 effective 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 No. TV-22912 signed on October 20, 2014, 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 **41** pages.

DRAFT

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.1 Site Determination

The shavings plant and the pellet plant are located in Lumber City (Telfair County) at the site of a closed lumber mill, previously owned by Rayonier (AIRS # 27100004). The AIRS No. of the Telfair Forest Products Plant has been 271-00022. There are no other facilities that are contiguous or are under common control of this plant site.

1.2 Previous and/or Other Names

The facility has always been known under the current name of Telfair Forest Products.

1.3 Overall Facility Process Description

Shavings Plant

The process begins with buying southern yellow pine logs in tree length loads that are trucked into the facility and are off-loaded and processed through a cut up saw and cut into short log lengths. Logs are then transported via conveyor chains to one of the three shavers (SH1/SH2/SH3). Shavings from the shavers are belt conveyed to a vibrating shaker screen (VS1) where the gross overs are diverted to a chipper and back into the shavings loop. The acceptable shavings then flow from VS1 to a rotary drum dryer (DR1) receiving hot air from a 40 MMBTU/hour natural gas burner (BU3). The dried shavings pass through the dryer to a cyclone (CY1) with rotary air lock. The shavings travel through the air lock to a dry shavings conveyor to a vibrating shaker screen (VS2). Here accepts are transported via enclosed screw conveyor to storage hoppers which are above the bailing and bagging machine (BB1) and (BB2). The wood shavings are then baled, bagged and palletized. Palletized shaving bags are then wrapped and placed in a warehouse or loaded into the customer trucks. At VS2, the fines are screened off and transported via pneumatic conveyor to the pellet plant to be used as pellet furnish.

Pellet Manufacturing Plant

The dried shavings from VS2, in the existing Shavings Plant, are diverted (all, a portion of, or none at all) and are air conveyed, as the shavings market dictates to the wood pelleting receiving area.

Additionally, the pellet furnish is augmented by purchasing dry (10%-12% moisture) pine shavings from local area sawmills. Purchased dry shavings are off-loaded via live bottom trailers into an enclosed facility designed for handling dry shavings. These shavings are loaded into one of two hoppers (HP1 & HP2) [under roof] using front end loaders. Shavings are then transported via chain and belt conveyors to shaker screen (VS3) under the same roof to screen off any gross overs. The accepts from VS3 convey by belt (enclosed) to an elevated storage bin (EB1) (Drop from belt to storage is enclosed.)

Shavings are conveyed from EB1 via enclosed chain conveyors to an enclosed drop to one of two Hammer mills (HM1 & HM2). The pellet furnish from the hammer mill is air conveyed to one of the two pellet mill furnish surge bins (SB1 & SB2) with cyclones with rotary air locks.

Air out of these two cyclones (CY2, CY3) passes through baghouse (BH1) and is sent to burner BU3 for destruction of VOC and HAPs. Each surge bin furnishes via augers two 5 ton/hr pellet machines. (PM1, PM2, PM3 and PM4) The pellet mill can thus produce pellets at the rate of 20 ton/hr.

From each pellet machine, pellets are air conveyed to a pellet cooler (CO1) with four cyclones (one for each pellet machine) (CY4, CY5, CY6 and CY7). Pellets are cooled and dropped to an enclosed vibrating screener (VS4). Acceptable pellets are dropped from screener to a belt conveyor which transports pellets to warehouse storage or to rail/truck loading. Reject material from screener is dropped through a rotary air lock to air convey system to return to storage bin (EB1) through bag house filter (BH2) for recycle back through pellet machines. The cooler has a Dual Cyclone (CY8) and fan to remove fines and they are conveyed through rotary air locks to the same system conveying the above screener rejects back to storage (EB1) through bag house (BH1). The Cooler cyclones with rotary air locks also drops materials back to the same system that conveys the screener rejects back to storage (EB1).

The Bag house (BH1) air lock also drops any accumulated product to the screener fines convey system. The screener rejects are conveyed to storage through baghouse (BH2) for recycle to the pellet machines.

Pellet Furnish Dryer

A wood biomass burner (BU2) with a 70 foot four-zone dryer (DR2) with dual cyclone collectors (CY9) and recycle system for the exhaust stack was permitted in October 2013 to create more drying capacity while installing an improved burner (BU2)/dryer (DR2) system to utilize wood biomass produced at the facility. The furnish dryer (DR2) is supplied with (wet) pine sawdust and chips bought from area sawmills. The green (wet) material being brought into the plant is dried to a 10% moisture for pellet factory furnish.

The pellet furnish dryer (DR2) has a wet hammermill for reducing the size of the green wood chips upstream of the rotary dryer. Downstream of the dryer there is a cyclone to separate the pellet furnish from the exhaust air stream from the dryer which is partly recycled back to the burner BU2 and partly discharged through a stack. The Permittee had informed EPD that at least 50% of the dryer exhaust air stream will be recycled back to the pellet furnish burner (BU2) for destruction of VOC and HAPs. Some CO emissions will also be converted to CO₂ in the burner BU2. The solids from the cyclone then go to a vibratory screener (VS5) where fines are separated from the pellet furnish that goes to the dry pellet furnish storage bins in the pellet mill. The fines from the vibratory screen goes to a fuel surge bin before going to a hammermill (HM3) and a cyclone (CY10) before being stored in the fuel storage bin for the burner BU2.

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 or cause the discharge into the atmosphere from the entire facility, any emissions which contain carbon monoxide (CO), nitrogen oxides (NO_x), particulate matter (PM) or volatile organic compounds (VOC) in excess of 249 tons during any twelve consecutive months.
[Avoidance of 40 CFR 52.21 (PSD)]

2.2 Facility Wide Federal Rule Standards

Not 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		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
BU3	Natural gas fired burner for rotary shavings dryer DR1	391-3-1-.02(b) 391-3-1-.02(e) 391-3-1-.02(g) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.1, 3.4.2, 3.4.3, 3.4.5, 3.4.6, 4.2.5, 5.1.4, 5.2.7, 5.2.9, 5.2.11, 5.2.12, 5.2.13, 6.1.7b, 6.1.7c., 6.2.3, 6.2.4	CY1	Cyclone
BU2	Direct Wood-fired horizontal dry suspension burners	391-3-1-.02(b) 391-3-1-.02(e) 391-3-1-.02(g) 391-3-1-.02(n) PSD avoidance	2.1.1, 2.1.1, 3.4.1, 3.4.2, 3.4.3, 3.4.5, 3.4.6, 4.2.5, 5.1.4, 5.2.7, 5.2.9, 5.2.11, 5.2.12, 5.2.13, 6.1.7b, 6.1.7c., 6.2.3, 6.2.4	CY9	Cyclone
SHGP	Log Shavers (SH1/SH2/SH3)	391-3-1-.02(b) 391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.5, 3.4.6	N/A	N/A
DR1	Shavings Dryer directly heated by burner BU3	391-3-1-.02(b) 391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.2.1, 3.4.1, 3.4.2, 3.4.5, 3.4.6, 4.2.1, 4.2.3, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.8, 5.2.9, 5.2.11, 5.2.12, 5.2.13, 6.1.7b, 6.1.7c., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.7, 6.2.7	CY1	High Efficiency Cyclone
VS1	Shaker/Vibratory Screen	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6	N/A	N/A
VS2	Shaker/Vibratory Screen	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.2.5, 5.2.6, 6.1.7.c.	N/A	N/A
VS3	Vibratory Screener	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.2.5, 5.2.6, 6.1.7.c.	N/A	N/A
DR2	Dryer directly heated by burner BU2	391-3-1-.02(b) 391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.2.1, 3.4.1, 3.4.2, 3.4.5, 3.4.6, 4.2.1, 4.2.3, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.8, 5.2.9, 5.2.11, 5.2.12, 5.2.13, 6.1.7b, 6.1.7c., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.7, 6.2.7	CY9 BU2	Cyclone Pellet Furnish Burner
HM1*	Hammer Mill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.1.4, 5.2.1, 5.2.5, 5.2.6, 6.1.7.c., 6.2.4	CY2 BH1 BU3	Cyclone Baghouse Shavings Plant Burner
HM2*	Hammer Mill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.1.4, 5.2.1, 5.2.5, 5.2.6, 6.1.7.c., 6.2.4	CY3 BH1 BU3	Cyclone Baghouse Shavings Plant Burner
SB1 SB2	Pellet Mill Furnish Surge Bins	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.1, 3.4.5, 3.4.6	N/A	N/A

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Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
PM1*	Pellet Mill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.5, 3.4.6, 5.1.4, 5.2.1, 6.1.7.c., 6.2.4	CY4 BU3	High Efficiency Cyclone Shavings Plant Burner
PM2*	Pellet Mill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.5, 3.4.6, 5.1.4, 5.2.1, 6.1.7.c., 6.2.4	CY5 BU3	HE Cyclone Shavings Plant Burner
PM3	Pellet Mill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.5, 3.4.6, 5.1.4, 5.2.1, 6.1.7.c., 6.2.4	CY6 BU3	HE Cyclone Shavings Plant Burner
PM4	Pellet Mill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.5, 3.4.6, 5.1.4, 5.2.1, 6.1.7.c., 6.2.4	CY7 BU3	HE Cyclone Shavings Plant Burner
CO1	Pellet Cooler	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.5, 3.4.6, 5.2.1, 6.1.7.c., 6.2.4	CY8 BU3	HE Cyclone Shavings Plant Burner
VS4	Vibratory Screener (enclosed)	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.2.5, 5.2.6, 6.1.7.c.	BH2	Baghouse
HM3	Hammermill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.1.4, 5.2.1, 5.2.5, 5.2.6, 6.1.7.c., 6.2.4	CY9	Cyclone
WHM1	Wet wood Hammermill	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.1.4, 5.2.1, 5.2.5, 5.2.6, 6.1.7.c., 6.2.4	N/A	N/A
VS5	Vibratory Screen	391-3-1-.02(e) 391-3-1-.02(n) PSD avoidance	2.1.1, 3.4.4, 3.4.5, 3.4.6, 5.1.3, 5.2.5, 5.2.6, 6.1.7.c.	N/A	N/A

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

* Exhaust from the Hammermills HM1, HM2 and Pellet Mills PM1 and PM2 sent to the shavings plant burner BU3 for VOC and HAPs control.

3.2 Equipment Emission Caps and Operating Limits

- 3.2.1 The Permittee shall limit the drying of green wood shavings in the triple pass drum dryer DR1 to 29,700 tons and the pellet furnish Dryer DR2 to 67,500 tons during any twelve consecutive months.
[PSD Avoidance]

3.3 Equipment Federal Rule Standards

None Applicable.

3.4 Equipment SIP Rule Standards

- 3.4.1 The Permittee shall not cause, let, suffer, permit or allow the rate of emissions from the triple pass drum dryers (DR1 and DR2) combined with wood residue-fired burner (BU2) and the natural gas fired burner (BU3), particulate matter in total quantities equal to or exceeding the allowable rate derived from $E = (4.1)(P)^{0.67}$; where E equals the emission rate in pounds per hour and P equals the dry process input weight rate in tons per hour up to and including 30 tons per hour. P shall be calculated from the wet input rate and the moisture content of the wood being processed.
[391-3-1-.02(e)(i)]
- 3.4.2 The Permittee shall not cause, let, suffer, permit, or allow the emissions into the atmosphere from the triple pass drum dryers (DR1 and DR2) combined with the natural gas fired burner (BU3) and the wood residue-fired burner (BU2), the opacity of which is equal to or greater than forty (40) percent.
[391-3-1-.02(b)]
- 3.4.3 The Permittee shall not combust any fuel with a sulfur content exceeding 2.5 weight percent in the Burners BU2 and BU3.
[391-3-1-.02(g)2]
- 3.4.4 The Permittee shall not cause, let, permit, suffer, or allow the rate of emissions from the Hammermills (HM1, HM2, HM3 and WHM1), Pellet Mills (PM1, PM2, PM3 and PM4), the Pellet cooler (CO1) and the vibratory screeners (VS1, VS2, VS3, VS4 and VS5) particulate matter in total quantities equal to or exceeding the allowable rate calculated as follows:
[391-3-1-.02(2)(e)1(i)]
- $E = 4.1P^{0.67}$; for process input weight rate up to and including 30 tons per hour
where E equals the emission rate in pounds per hour and P equals the process input weight rate in tons per hour
- 3.4.5 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:
[391-3-1-.02(2)(n)]

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- 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;
 - d. Covering, at all times when in motion, open bodied trucks that are 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.
 - f. Controlled rotation of log piles and wet storage pile
 - g. Maintain sharp knives in the green chipper and shaver group
 - h. conduct operations such as log shaving, screening and dry storage under a covered structure with a roof.
- 3.4.6 The opacity from any fugitive dust source shall not equal or exceed 20 percent.
[391-3-1-.02(2)(n)2]
- 3.4.7 The Permittee shall exhaust all the gases from the Hammermills (HM1 and HM2) and the Pellet Mills (PM1 to PM2) to the Burner (BU3) at all times these equipment operate. The Permittee shall not operate this equipment if the Burner (BU3) is not operating.
[PSD avoidance]
- 3.4.8 The Permittee shall recycle at least 50% of the exhaust from the pellet furnish dryer (DR2) back to the wood-fired burner (BU2). The pellet furnish dryer (DR2) shall be operated only when the wood-fired burner (BU2) is operating.
[PSD avoidance]

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

None Applicable.

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. Method 3B shall be used for the determination of emission rate correction factor or excess air. Method 3A may be used as an alternative.
 - d. Method 4 shall be used for the determination of stack gas moisture.
 - e. Method 5, 5B or 17 shall be used to demonstrate compliance with the Particulate Matter emission limit in Condition 2.7. The PM emission rate shall be expressed in lb/MMBtu of heat input per 40 CFR 60.45c(a)(7).
 - f. Method 7 or 7E shall be used for determination of NO_x emissions.
 - g. Method 9 and the procedures of the above referenced document shall be used to determine the opacity.
 - h. Method 10 shall be used for the determination of CO concentrations.
 - i. Method 19 shall be used when applicable; to convert particulate matter, carbon monoxide, and nitrogen oxides concentrations (i.e., grains/dscf for PM, ppm for gaseous pollutants), as determined using other methods specified in this section, to mass emission rates (i.e., lb/MM Btu, lb/hr).

- j. Method 26 or 26A shall be used to determine Hydrogen Chloride emission concentrations.
- k. Methods 201A, in conjunction with Method 202, shall be used to determine concentration of PM₁₀ and PM_{2.5}
- l. Method 25A shall be used for the determination of VOC concentrations in the dryer exhaust stacks.

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 The Permittee shall use data from the most recent performance test for total PM including condensable PM, NO_x and CO emissions for the pellet furnish dryer DR2 and the shaving plant dryer DR1 to establish emission factors (lb/ODT (short tons)) for total PM, NO_x and CO to be used in Condition 6.2.3.

For each parameter, the Permittee shall specify appropriate monitoring methods, monitoring frequencies and for continuously monitored parameters, averaging times not to exceed 24 hours. The operating limit for each controlling parameter must then be established as the minimum, maximum, range, or average (as appropriate depending on the parameter) recorded during the performance test. Multiple three-run performance tests may be conducted to establish a range of parameter values under different operating conditions.

[391-3-1-.02(6)(b)1]

- 4.2.2 Following the initial performance tests, the Permittee shall conduct CO performance tests on the wood dust burner (BU2)/pellet furnish dryer (DR2) at the exhaust stack (ST2) at 24-month intervals. Based on tested emission rates from the shaving dryer stack (ST1), their emissions may need to be tested as well. If the results of the test exceed the factor currently being used in Condition 6.2.3, then the Permittee must immediately reestablish the factors using the method described in Condition 6.2.3 (using the new, higher emission factors starting on the test date).

[391-3-1-.02(6)(b)1(i)]

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- 4.2.3 The Permittee shall establish emission factors in lb/ODT for volatile organic compounds (VOC) from the pellet furnish dryer DR2 at the dryer exhaust stack (ST2) and the wood shavings dryer DR1 measured at exhaust stack (ST1) using test data from the most recent performance test and use the factors in Condition 6.2.4.
[391-3-1-.02(3) and 391-3-1-.03(2)(c)]
- 4.2.4 Following the initial performance tests, the Permittee shall conduct VOC emission tests on the pellet furnish dryer emissions at the exhaust stack (ST2) at 48-month intervals. Based on tested emission rates from the dryer exhaust stack (ST2), the shaving dryer stack (ST1) emissions may need to be tested as well.
[391-3-1-.02(6)(b)1(i)]
- 4.2.5 The Permittee shall not use monitors or test equipment during performance tests that are not used in normal day to day operations of the facility, to adjust/fine tune the burners prior to performance testing. The Permittee shall submit all test data for pretests and posttests conducted during the day or two before and following the test along with the source test data to the Division.
[391-3-1-.02(3) and 391-3-1-.03(2)(c)]

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]
- 5.1.2 Routine maintenance shall be performed on all process and air pollution control equipment, including the high efficiency cyclone. Maintenance records shall be recorded in a permanent form suitable and available for inspection by the Division.
- 5.1.3 The Permittee shall have an adequate supply of baghouse filter bags on hand to promptly replace any leaking or torn filter bags that could result in excessive visible emissions.

5.2 Specific Monitoring Requirements

- 5.2.1 The Permittee shall perform the following applicable operation and maintenance checks on the cyclones (CY1 to CY10) and retain a record suitable for inspection or submittal for each week or portion of each week of operation. Any adverse condition discovered by this inspection shall be corrected in the most expedient manner possible and the maintenance records shall note the corrective action taken. A checklist or other similar log may be used for this purpose:
[391-3-1-.02(6)(b)1]
- a. Check exterior of the units for holes in the body or evidence of malfunction in interior of the cyclone.
 - b. Check hopper for bridging and plugging.
 - c. Check particulate transfer device for proper operation to ensure dust removal. Any adverse condition discovered by this inspection shall be corrected in the most expedient manner possible. The Permittee shall record the incident as an excursion and note the corrective action taken.
- 5.2.2 The Permittee shall install, calibrate, maintain, and operate pressure drop indicators on the high efficiency cyclones (CY1 and CY9) installed downstream of the triple pass drum dryers (DR1 and DR2). The Permittee shall read and record the pressure drop at least once per operating day. A logbook containing these records shall be available for inspection and/or submittal to the Division.
[391-3-1-.02(6)(b)1]

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- 5.2.3 A new pressure drop range for any of the cyclones in Condition 5.2.2 may be established using pressure drop data recorded during a future compliance test.
[391-3-1-.02(6)(b)1]
- 5.2.4 The Permittee shall perform checks of visible emissions of the exhaust from the wood flake dryer (DR1) and the pellet furnish dryer (DR2) while the equipment is operating at the normal expected operating rate. A check shall be conducted two times each operating day, once each morning (8:00 – 12:00 AM) and once each afternoon (1:00 – 5:00 PM) of each day of operation, using the procedures below, except when atmospheric conditions or sun positioning prevent any opportunity to perform a VE check. The Permittee shall retain a record in a daily visible emissions (VE) log suitable for inspection or submittal.
[391-3-1-.02(6)(b)1]
- a. Determine, in accordance with the procedures specified in paragraph d of this condition, if visible emissions are present at the discharge point to the atmosphere from the wood flake drying drum and the pellet furnish dryer drum and record the results in the daily VE log. For sources that exhibit visible emissions, the Permittee shall comply with paragraph b of this condition.
 - b. For each check where a stack is determined to be emitting visible emissions, a qualified observer shall determine whether the emissions equal or exceed a 30% opacity action level, using the procedure specified in paragraph d of this condition. For the purposes of this condition a qualified observer is one that has met the certification requirements of EPA Method 9 – *Visual Determination of the Opacity of Emissions from Stationary Sources*. Also, this determination shall cover a period of six minutes. The results shall be recorded in the daily VE log. For sources that exhibit visible emissions of greater than or equal to the opacity action level of 30%, the Permittee shall comply with paragraph c of this condition.
 - c. For each occurrence that requires action in accordance with paragraph b of this condition, the Permittee shall determine the cause of the visible emissions and correct the problem in the most expedient manner possible. The Permittee shall note the cause of the visible emissions, raw material feed rate, and any other pertinent operating parameters as well as the corrective action taken, in the maintenance log.
 - d. The person performing the determination shall stand at a distance of at least three stack heights, which is sufficient to provide a clear view of the plume against a contrasting background with the sun in the 140° sector at his/her back. Consistent with this requirement, the determination shall be made from a position such that the line of vision is approximately perpendicular to the plume direction. Only one plume shall be in the line of sight at any time when multiple stacks are in proximity to each other.
- 5.2.5 The Permittee shall install, calibrate, maintain, and operate pressure drop indicators on the baghouses (BH1 and BH2) installed downstream of the hammer mills and the vibratory screener in the pellet plant. The Permittee shall read and record the pressure drop at least once per operating day. A logbook containing these records shall be available for inspection and/or submittal to the Division.
[391-3-1-.02(6)(b)1]

5.2.6 The Permittee shall develop and implement a Preventive Maintenance Program (PMP) for the baghouses (BH1 and BH2) to assure that the baghouses are operated in an optimal manner for PM control. All QA/QC practices and criteria shall be stated in the Preventive Maintenance Program. The program shall be subject to review and, if necessary to assure compliance, modification by the Division and shall include the pressure drop ranges that indicate proper operation for each baghouse. At a minimum, the following operation and maintenance checks shall be made on at least a weekly basis, 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. Record the pressure drop across each baghouse and ensure that it is within the appropriate range.
- b. For baghouses equipped with compressed air cleaning systems, check the system for proper operation. This may include checking for low pressure, leaks, proper lubrication, and proper operation of timer and valves.
- c. 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.
- d. For baghouses equipped with shaker cleaning systems, check the system for proper operation. This may include checking shaker mechanism for loose or worn bearings, drive components, mountings; proper operation of outlet/isolation valves; proper lubrication.
- e. Check dust collector hoppers and conveying systems for proper operation.

5.2.7 The Permittee shall develop and implement a Work Practice and Preventative Maintenance Program for the Wood Flake Burner and the pellet furnish Rotary Dryer System to assure that the emissions of CO, VOC, PM and VE are minimized during operation of the shavings plant and the pellet plant. The program shall be subject to review and modification by the Division. At a minimum, the following operational 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]

- a. General Work Practice Standards for Wood Flake Burner (BU2) and pellet furnish Dryer (DR2) System:
 - i. The wood-fired burner BU2 shall be operated at an exit temperature as indicated by the process controller at a set-point of $\geq 1500^{\circ}F$.
 - ii. Check that temperature sensing devices are operating correctly, adjust or replace them as needed expeditiously.
 - iii. Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly

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b. The Permittee shall correct any adverse condition, discovered by an inspection conducted in accordance with this condition, in the most expedient manner possible and shall note the corrective action taken in the operation/maintenance log. If not immediately correctable, the Permittee shall implement a corrective action plan within 24 hours after an adverse condition was discovered during inspections. A record of the adverse condition and the corrective action(s) taken shall be kept in a form ready for inspection or submittal to the Division upon request.

5.2.8 The Permittee shall install a pressure monitor in the recycle duct from the pellet plant dryer DR2 to the dryer burner BU2 and in the recycle duct from the shavings dryer DR1 to the shavings plant dryer burner BU3. The Permittee shall establish a range for the pressure in the recycle duct dryer exhaust stream when 50% of the dryer exhaust is recycled to the dryer burner within 120 days after startup of the dryer DR2. The pressure in the dryer recycle ducts shall be continuously recorded.
[391-3-1-.02(6)(b)1(i)]

5.2.9 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
BU3/DR1	PM, CO and VOC
BU2/DR2	PM, CO and VOC

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]

5.2.10 The Permittee shall comply with the performance criteria listed in the table below for the PM emissions from BU3/DR1 and BU2/DR2
[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Visible Emission	Indicator No. 2 Pressure Drop Across Cyclone
A. Data Representativeness [64.3(b)(1)]	Opacity Action Level is 30%	Pressure drop range is 5" to 10" W.C.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	N/A	N/A
C. QA/QC Practices and Criteria [64.3(b)(3)]	Operators perform VE checks and VE readings are checked daily by supervisor	Operators perform pressure drop checks and the pressured drop readings are checked daily by supervisor
D. Monitoring Frequency [64.3(b)(4)]	Daily	Daily

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Performance Criteria [64.4(a)(3)]	Indicator No. 1 Visible Emission	Indicator No. 2 Pressure Drop Across Cyclone
E. Data Collection Procedures [64.3(b)(4)]	Method 9 used for VE checks	Pressure drops are recorded by data logger.
F. Averaging Period [64.3(b)(4)]	Six minutes for VE readings	Three-hour averages

5.2.11 The Permittee shall comply with the performance criteria listed in the table below for the CO and VOC emissions from BU3/DR1 and BU2/DR2.
[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Temperature
A. Data Representativeness [64.3(b)(1)]	Dryer Inlet, Outlet and Stack temperatures monitored
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	N/A
C. QA/QC Practices and Criteria [64.3(b)(3)]	Temperature probes checked and calibrated weekly
D. Monitoring Frequency [64.3(b)(4)]	continuous
E. Data Collection Procedures [64.3(b)(4)]	Data collected using data logger
F. Averaging Period [64.3(b)(4)]	Three-hour averages

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 is 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 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.

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- 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)]

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- 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 month in which the cumulative total amount of green wood shavings dried exceeds 29,700 tons in the last twelve consecutive months.
- ii. Any month in which the cumulative total amount of pellet furnish dried exceeds 67,750 tons in the last twelve consecutive months.
- iii. Any fuel combusted in the burners BU2 and BU3 with a sulfur content exceeding 2.5% by weight.
- iv. Any month during which the cumulative total emissions of CO, NO_x, PM or VOC exceeds 249 tons during the last consecutive twelve months.

- 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). The report shall identify each period, the magnitude, nature and cause of any malfunction (if known), and the corrective action taken or preventive measures adopted (if any).

- i. Any instance in which a daily pressure drop reading, required by Conditions 5.2.2 and 5.2.5 are outside of the range established, for two or more consecutive days.
- ii. Any instance in which the VE readings of the dryers (DR1 and/or DR2) required by Condition 5.2.4 are above the action level of 30% for two or more consecutive days.
- iii. Any failure to follow required work practice procedures in Condition 5.2.7.
- iv. As part of the reporting, the Permittee shall report corrective actions taken as required in Condition No. 5.2.7b.
- v. Any adverse condition discovered by the weekly inspections of the cyclones (CY1-CY10) per Condition 5.2.1.

- vi. Any three-hour average pressure drop in the dryer DR2 recycle duct that is 15% outside the range established during the most recent source test while recycling 50% of the dryer exhaust.

6.2 Specific Record Keeping and Reporting Requirements

- 6.2.1 The Permittee shall keep operating records to determine the total amount of product dried in each of the Dryers (DR1 and DR2) in oven dry tons (ODT), amount of material processed in the Hammermills, Pellet press and the Pellet Cooler in metric tons (short tons), on a monthly basis. These records shall be maintained in a form suitable for inspection and/or submittal to the Division.
[PSD Avoidance per 40 CFR 52.21]
- 6.2.2 The Permittee shall maintain records of the monthly input rates of the green wood processed for drying necessary to confirm compliance with the limits in Condition 3.2.1 The total green wood dried in the triple pass dryers (DR1 and DR2) for the previous 11 consecutive months must be included in each month’s log. The records shall be recorded in a permanent form suitable and available for inspection or submittal to the Division upon request.
[PSD Avoidance per 40 CFR 52.21]
- 6.2.3 The Permittee shall calculate the monthly NO_x, CO and PM/PM₁₀/PM_{2.5} emissions from the Burners (BU3 and BU2)/Drum dryers (DR1 and DR2), Hammermills (HM1-HM3 and WHM1), Pellet Mills (PM1-PM4) and Pellet coolers cyclones (CY4-CY8) using the records from Condition 6.2.1 and the following equation:
[PSD Avoidance per 40 CFR 52.21]

$$E = \left(\frac{\text{EmissionFactor}lb\text{Pollutant}}{ODT} \right) (\text{MonthlyDryerProduct}ODT) \left(\frac{ton}{2,000lb} \right)$$

Where:

E = tons of NO_x, CO and PM/PM₁₀ pollutant per month

ODT refers to Oven Dried Tons and refers to short tons.

The Permittee shall establish emission factors for NO_x, CO and PM/PM₁₀/PM_{2.5} using the results of the initial NO_x, CO and PM/PM₁₀/PM_{2.5} testing. The Permittee can later reestablish the NO_x, CO and PM/PM₁₀/PM_{2.5} factors if they wish. This may be done using the results from the most recent NO_x, CO and PM/PM₁₀/PM_{2.5} testing or any other testing, as long as it was done per the permit requirements. The results shall be submitted to the Division within 60 days of completion of the tests. Upon review and approval, the Permittee may then begin using the new factors to calculate NO_x, CO and PM/PM₁₀/PM_{2.5} emissions.

The Permittee shall notify the Division in writing if total NO_x, CO or PM/PM₁₀/PM_{2.5} emissions exceed 20.7 tons during any calendar month. This notification shall be postmarked by the fifteenth 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

[391-3-1-.02(6)(b)1, PSD avoidance]

- 6.2.4 The Permittee shall use test results from initial or the most recent performance tests and the following equation(s) to calculate VOC emissions from the shavings plant and pellet furnish dryers. All emission factors and calculations shall be kept as part of the monthly records, available for inspection or submittal.
[PSD avoidance]

The Permittee shall calculate VOC emissions as follows:

$$\text{VOC} = [\text{Method 25A VOC as propane}]$$

Where the final emission factors are the sum of the results from the pellet furnish dryer (DR2) and the shavings dryer DR1.

Then determine the tons of pollutant per month using the following equation.

$$E = \left(\frac{\text{EmissionFactor} \text{ lbPollutant}}{\text{ODT}} \right) (\text{MonthlyDryerProduct} \text{ ODT}) \left(\frac{\text{ton}}{2,000 \text{ lb}} \right)$$

Where:

E = tons pollutant emitted per month

ODT refers to Oven Dried Tons and refers to short tons.

The Permittee shall establish emission factor for VOC using the results of the initial emission testing.

The Permittee can later reestablish emission factor if they wish. This may be done using the results from the subsequent testing or any other testing, as long as it was done per the permit requirements. The results shall be submitted to the Division per the reporting requirements of Condition 6.2.4. Upon review and approval, the Permittee may then begin using the new factors to calculate VOC emissions.

[391-3-1-.02(6)(b)1]

- 6.2.5 The Permittee shall use the monthly NO_x, CO and PM/PM₁₀ emission data required in Condition 6.2.3 to calculate the 12-month rolling total of each pollutant emitted from the facility, for each calendar month in the reporting period. These records shall be kept available for inspection or submittal. .
[391-3-1-.03(2)(c)]

- 6.2.6 The Permittee shall use the monthly VOC emission data required in Condition 6.2.4 to calculate the 12-month rolling total of VOC emitted from the facility for each calendar month in the reporting period. These records shall be kept available for inspection or submittal.

The Permittee shall notify the Division in writing if the monthly emissions of VOC exceed 20.7 tons. This notification shall be postmarked by the fifteenth 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.

[391-3-1-.03(2)(c)]

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

(see Form D5 “Short Term Activities” of the Permit application and White Paper #1)

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 becomes 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.

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- 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/emergencies/content/rmp/rmp_esubmit.htm). Electronic Signature Agreements should be mailed to:

MAIL

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

COURIER & 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:

Air Quality Permit and Amendment Number(s)	Dates of Original Permit or Amendment Issuance
2499-271-0022-E-03-0	October 21, 2013

7.13 Pollution Prevention

None applicable.

7.14 Specific Conditions

None.

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 effective 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 EPCRA Enforcement 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:

$$E = 4.1P^{0.67}; \text{ for process input weight rate up to and including 30 tons per hour.}$$
$$E = 55P^{0.11} - 40; \text{ for process input weight rate above 30 tons per hour.}$$

- 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 III - "Standard of Performance for Stationary Compression Ignition Internal Combustion Engines." Such requirements include but are not limited to:
[40 CFR 60.4200, 391-3-1-.02(8)(b)77]
- a. Equip all emergency generator engines with non-resettable hour meters in accordance with Subpart III.
 - b. Purchase only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division in accordance with Subpart III.
 - c. Conduct engine maintenance prescribed by the engine manufacturer in accordance with Subpart III.
 - d. Limit non-emergency operation of each emergency generator to 100 hours per year in accordance with Subpart III. 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 III
 - f. Maintain a list of engines subject to 40 CFR 60 Subpart III, 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 - "Standard of Performance for Stationary Spark Ignition Internal Combustion Engines," for spark ignition internal combustion engines(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, 391-3-1-.02(8)(b)79]

- 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 Standard 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 <500hp engines at major sources, and constructed prior to December 19, 2002 for >500hp engines at major sources of HAP), such requirements include but are not limited to:

[40 CFR 63.6580, 391-3-1-.02(9)(b)118]

- 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

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

Category	Description of Insignificant Activity/Unit	Quantity
Mobile Sources	1. Cleaning and sweeping of streets and paved surfaces	
Combustion Equipment	1. Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.	
	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.	
Trade Operations	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.	1
Maintenance, Cleaning, and Housekeeping	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.	
	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.	
	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
Laboratories and Testing	1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.	
	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.	
Pollution Control	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. 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.	
Industrial Operations	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> i) Activity is performed indoors; & ii) No significant fugitive particulate emissions enter the environment; & iii) No visible emissions enter the outdoor atmosphere. 	1
	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
Storage Tanks and Equipment	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. 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.	
	3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.	
	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 is 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.	0
	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).	

INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity

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) is 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)

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.	
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.	
Any fuel burning equipment with a rated heat input capacity of 1 million BTU/hr or less.	

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.
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.
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).