



State of Georgia
Department of Natural Resources
Environmental Protection Division
Air Protection Branch



Part 70 Operating Permit

Permit Number: 9711-245-0021-V-02-0 **Effective Date:** MAR 09 2010

Facility Name: US Army Signal Center and Fort Gordon

Facility Address: Headquarters US Army Signal Center
Fort Gordon, Georgia 30905, Richmond County

Mailing Address: Environmental Branch
Directorate of Public Works and Logistics (DPWL)
Building 14500
Fort Gordon, Georgia 30905

Parent/Holding Company: United States Army

Facility AIRS Number: 04-13-245-00021

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 military base.

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-18463 signed on September 19, 2008, 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 47 pages.

F. Allen Barnes

Director
Environmental Protection Division

Title V Permit

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PART 1.0 FACILITY DESCRIPTION**1.1 Site Determination**

This permit covers only the campus that consists of the Headquarters US Army Signal Center & Fort Gordon. There are no other US Army installations located near this facility.

1.2 Previous and/or Other Names

No previous names or other names have been identified.

1.3 Overall Facility Process Description

The main purpose and mission of Fort Gordon is to provide training to military personnel and to provide mission-ready units of soldiers, with specialty capability in communications, in support of army efforts worldwide. Fort Gordon is the headquarters for the Army's Signal Center. Much of the emission sources are used to heat and cool buildings and housing to support that mission. This includes a 100-bed hospital and medical services clinics. The main support services for the base contain emission sources. Most are related to maintaining and making available material, equipment and vehicles to army personnel. These include vehicle maintenance and support equipment such as fueling stations, storage tanks, paint booths and parts washers. Because of the strategic mission of this base, the facility requires significant emergency power. This is supplied by over 40 engine driven generators. Ten of these engines are also used for peaking power.

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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 use more than 100 gallons per month of finishing material or adhesives in the manufacture of wood furniture or wood furniture components facility wide (This includes all Paint Booths P001 through P007 and the Wood Shop M002). For the purposes of this limit, the following definitions apply:
[40 CFR 63 Subpart JJ (wood furniture MACT) avoidance]

- a. *Finishing materials* means a coating used in the wood furniture industry. Such materials include, but are not limited to: stains, basecoats, washcoats, enamels, sealers and topcoats.
[40CFR63.801(a)]
- b. *Adhesive* means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means. Adhesives shall not be considered coatings or finishing materials.
[40CFR63.801(a)]
- c. *Wood furniture manufacturing operations* means the finishing, gluing, cleaning, and washoff operations associated with the production of wood furniture or wood furniture components.
[40CFR63.801(a)]
- d. *Wood furniture component* means any part that is used in the manufacture of wood furniture. Examples include, but are not limited to, drawer sides, cabinet doors, seat cushions, and laminated tops.
[40CFR63.801(a)]
- e. *Wood furniture* means any product made of wood, a wood product such as rattan or wicker, or an engineered wood product such as particleboard, that is wood components that are manufactured.
[40CFR63.801(a)]

2.2 Facility Wide Federal Rule Standards

- 2.2.1 The Permittee shall comply with the following Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAPs):
- a. 40 CFR Part 61 Subpart A, the NESHAP "General Provisions."
 - b. 40 CFR Part 61 Subpart M, the NESHAP for "Asbestos."

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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

Table 1 Emission Units And Associated Air Pollution Control Devices					
Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
B001	Boiler # 1 Located at Building 25330. The South Heating Plant. 35 MMBtu/hr water tube boiler, firing: NG and No. 2 FO. Installed 1976	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g)	3.2.5, 3.4.2, 3.4.3, 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.11	None	None
B002	Boiler # 2 Located at Building 25330. The South Heating Plant. 35 MMBtu/hr water tube boiler, firing: NG and No. 2 FO. Installed 1976	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g)	3.2.5, 3.4.2, 3.4.3, 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.11	None	None
B003 (Group 4)	Boiler # 1 Located at Building 310. The Hospital Plant. 17 MMBtu/hr fire tube boiler, firing: NG and No. 2 FO. Installed 1998	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance	3.2.4, 3.2.5, 3.3.1, 3.3.2, 3.4.2, 3.4.3, 5.2.1, 6.1.7b.ii., 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.9, 6.2.11	None	None
B004 (Group 4)	Boiler # 2 Located at Building 310. The Hospital Plant. 17 MMBtu/hr fire tube boiler, firing: NG and No. 2 FO. Installed 1998	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance	3.2.4, 3.2.5, 3.3.1, 3.3.2, 3.4.2, 3.4.3, 5.2.1, 6.1.7b.ii., 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.9, 6.2.11	None	None
B005 (Group 4)	Boiler # 3 Located at Building 310. The Hospital Plant. 17 MMBtu/hr fire tube boiler, firing: NG and No. 2 FO. Installed 1998	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance	3.2.4, 3.2.5, 3.3.1, 3.3.2, 3.4.2, 3.4.3, 5.2.1, 6.1.7b.ii., 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.9, 6.2.11	None	None
B006 (Group 8)	Boiler at main heating plant Bldg. 25910. 62.5 MMBtu/hr water tube with low NOx burners. Firing: NG and No. 2 FO. Installed 2004	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance	3.2.5, 3.2.6, 3.2.7, 3.3.1, 3.3.2, 3.3.3, 3.4.2, 3.4.3, 4.2.1, 5.2.1, 5.2.5, 6.1.7b.iii., 6.1.7b.iv., 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.9, 6.2.10, 6.2.11, 6.2.12	None	None

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Table 1 Emission Units And Associated Air Pollution Control Devices					
Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
B007 (Group 8)	Boiler at main heating plant Bldg. 25910. 62.5 MMBtu/hr water tube with low NOx burners. Firing: NG and No. 2 FO. Installed 2004	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance	3.2.5, 3.2.6, 3.2.7, 3.3.1, 3.3.2, 3.3.3, 3.4.2, 3.4.3, 4.2.1, 5.2.1, 5.2.5, 6.1.7b.iii., 6.1.7b.iv., 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.9, 6.2.10, 6.2.11, 6.2.12	None	None
B008 (Group 8)	Boiler at main heating plant Bldg. 25910. 62.5 MMBtu/hr water tube with low NOx burners. Firing: NG and No. 2 FO. Installed 2004	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance	3.2.5, 3.2.6, 3.2.7, 3.3.1, 3.3.2, 3.3.3, 3.4.2, 3.4.3, 4.2.1, 5.2.1, 5.2.5, 6.1.7b.iii., 6.1.7b.iv., 6.1.7b.v., 6.2.2, 6.2.3, 6.2.4, 6.2.9, 6.2.10, 6.2.11, 6.2.12	None	None
G001 (Group 1)	Engine Peak Generator at Building 310 (hospital). 3070 HP output (2100kW _e , 22.2 MMBtu/hr @ 158 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G002 (Group 2)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G003 (Group 2)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G004 (Group 2)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G005 (Group 2)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G006 (Group 2)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None

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Table 1 Emission Units And Associated Air Pollution Control Devices					
Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
G007 (Group 2)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G008 (Group 3)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G009 (Group 3)	Engine Peak Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G010 (Group 3)	Engine Peaking Generator at the main power plant. 2125 HP output (1500kW _e , 15.9 MMBtu/hr @ 113 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.1, 3.2.2, 3.4.1, 5.2.1, 5.2.3, 6.1.7b.i., 6.1.7b.vii., 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11	None	None
G011 (Group 8)	Engine Peak Generator at the main power plant. 428 HP output (300kW _e , 3.2 MMBtu/hr @ 22.7 gph input).	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) PSD avoidance	3.2.3, 3.2.6, 3.2.7, 3.4.1, 5.2.1, 5.2.4, 6.1.7b.iii., 6.1.7b.iv., 6.1.7b.viii., 6.2.1, 6.2.3, 6.2.4, 6.2.6, 6.2.10, 6.2.11	None	None
P001 (Group CB01)	Paint Spray Booth. Vehicle and equipment maintenance. Installed after 1996.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.4.1, 3.4.4, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.18, 6.2.19, 6.2.20	DF01	Dust and over-spray dry filters.
P002 (Group CB01)	Paint Spray Booth. Vehicle and equipment maintenance. Installed after 1996.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.4.1, 3.4.4, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.18, 6.2.19, 6.2.20	DF02	Dust and over-spray dry filters.
P003 (Group CB01)	Paint Spray Booth. Miscellaneous coating operations. Installed after 1996.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) Rule 391-3-1-.02(2)(ii) avoidance 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.4.1, 3.4.4, 3.4.5, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.vi., 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.18, 6.2.19, 6.2.20	DF03	Dust and over-spray dry filters.

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Table 1
Emission Units And Associated Air Pollution Control Devices

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
P004 (Group CB01)	Paint Spray Booth. Miscellaneous coating operations. Installed after 1996.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) Rule 391-3-1-.02(2)(ii) avoidance 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.4.1, 3.4.4, 3.4.5, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.vi., 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.18, 6.2.19, 6.2.20	DF04	Dust and over-spray dry filters.
P005 (Group CB01)	Paint Spray Booth. Miscellaneous coating operations. Installed after 1996.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) Rule 391-3-1-.02(2)(ii) avoidance 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.4.1, 3.4.4, 3.4.5, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.vi., 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.18, 6.2.19, 6.2.20	DF05	Dust and over-spray dry filters.
P006	TASC Paint Spray Booth. HVLP spray gun with capacity of 5.6 gph. Coating plastic and extruded foam props such as rifles, machine guns, pistols, bombs, grenades and mines. Installed in 2006.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) Rule 391-3-1-.02(2)(a) Toxic Guideline 40CFR52.21j (PSD) avoidance 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.2.8, 3.4.1, 3.4.4, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.17, 6.2.18, 6.2.19, 6.2.20	DF06	Dry Type, Class 2 over-spray paint arrestors. Efficiency at least 94% for lacquer. No VOC control.
P007	TASC Paint Spray Booth. HVLP spray gun with capacity of 5.6 gph. Coating wood furniture. Installed in 2006.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) Rule 391-3-1-.02(2)(a) Toxic Guideline 40CFR52.21j (PSD) avoidance 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.2.8, 3.4.1, 3.4.4, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.17, 6.2.18, 6.2.19, 6.2.20	DF07	Dry Type, Class 2 over-spray paint arrestors. Efficiency at least 94% for lacquer. No VOC control.
BL01	Sponge-Jet Blasting operations in Building 14602.	Rule 391-3-1-.02(2)(b), Rule 391-3-1-.02(2)(e), Rule 391-3-1-.02(2)(n)	3.4.1, 3.4.4, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.19, 6.2.20	FIL01	Filter
M002	Training Support Center (TASC). Wood Shop producing training aides for the Army.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(e) Rule 391-3-1-.02(2)(a) Toxic Guideline 40CFR52.21j (PSD) avoidance 40CFR63.802 (Wood Furniture MACT) avoidance	2.1.1, 3.4.1, 3.4.4, 3.5.1, 3.5.2, 3.5.3, 5.2.1, 5.2.2, 6.1.7b.ix., 6.1.7c.i., 6.1.7c.ii., 6.1.7c.iii., 6.1.7c.iv., 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.18, 6.2.19, 6.2.20, 6.2.21	BH01	Baghouse for TASC shop area.

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

**Table 3.1 has been updated with current condition numbers. Emission units and APCD ID Nos. have been updated.

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3.2 Equipment Emission Caps and Operating Limits

- 3.2.1 The Permittee shall limit the total combined energy output per any twelve consecutive months from the Emission Unit Groups for engines, to the amount listed for that in Table 2, to assure that the PSD Significance levels are not exceeded from any group:
[40 CFR 52.21 – PSD Avoidance]

Table 2 Emission Unit Group Energy Output Limits	
Group	Total energy output allowed during any 12 month period
Group 1 Emission Unit (Engine Generator Set)	2,039,200 kwh*
Group 2 Emission Units (Engine Generator Sets)	2,331,000 kwh*
Group 3 Emission Units (Engine Generator Sets)	3,118,500 kwh*
*kwh = 1000 Watt-hours	

- 3.2.2 Fuel oil fired in peaking engines listed in Table 1 shall be low sulfur diesel fuel oil and shall not contain more than 0.05 percent sulfur by weight. Low sulfur diesel fuel oil means fuel oil that complies with the specifications for Low Sulfur diesel fuel oil 1-D or Low Sulfur diesel fuel oil 2-D as defined by the American Society for Testing and Materials (ASTM) standard ASTM D975, "Standard Specification for Diesel Fuel Oils."
[391-3-1-.02(2)(a), 391-3-1-.02(2)(b), and 40 CFR 52.21 – PSD Avoidance]
- 3.2.3 Fuel oil fired in engine driven backup generator G011 shall be diesel fuel oil and shall not contain more than 0.5 percent sulfur by weight. Diesel fuel oil means fuel oil that complies with the specifications for diesel fuel oil numbers 1-D, 2-D, Low Sulfur 1-D or Low Sulfur 2-D as defined by the American Society for Testing and Materials (ASTM) standard ASTM D975, "Standard Specification for Diesel Fuel Oils."
[391-3-1-.02(2)(a), 391-3-1-.02(2)(b) and 40 CFR 52.21 – PSD Avoidance]

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- 3.2.4 The Permittee shall limit the total combined fuel usage for Group 4 emission units (Boilers B003 through B005) during any twelve consecutive months as listed in Table 3:
[40 CFR 52.21 – PSD Avoidance]

Group	Total distillate oil allowed to be fired during any 12 month period	Total natural gas allowed to be fired during any 12 month period
Group 4 Emission Units (3 hospital boilers)	300,000 gallons	125,000,000 cubic feet

- 3.2.5 Fuel oil fired in boilers listed in Table 1 shall be distillate fuel oil and shall not contain more than 0.5 percent sulfur by weight. Distillate fuel oil means fuel oil that complies with the specifications for fuel oil number 1 or 2, as defined by the American Society for Testing and Materials (ASTM) standard ASTM D396, "Standard Specification for Fuel Oils."
[391-3-1-.02(2)(d), 391-3-1-.02(2)(g) and 40 CFR 52.21 – PSD Avoidance]
- 3.2.6 The Permittee shall not discharge or cause to be discharged into the atmosphere from the firing of natural gas, distillate oil and diesel fuel oil in Group 8 emission units (boilers and engine driven generator) the emissions of oxides of nitrogen (NO_x) in an amount equal to or exceeding 39.9 tons per consecutive twelve month period.
[40 CFR 52.21 – PSD Avoidance]
- 3.2.7 The Permittee shall not discharge or cause to be discharged into the atmosphere from the firing of natural gas, distillate oil and diesel fuel oil in Group 8 emission units (boilers and engine driven generator) emissions of sulfur dioxide (SO₂) in an amount equal to or exceeding 39.9 tons per consecutive twelve month period.
[40 CFR 52.21 – PSD Avoidance]
- 3.2.8 The Permittee shall not discharge or cause to be discharged into the atmosphere from coating booths P006 and P007, the emissions of volatile organic compounds (VOCs) in an amount equal to or exceeding 39.0 tons per consecutive twelve month period.
[40 CFR 52.21 – PSD Avoidance]

3.3 Equipment Federal Rule Standards

General Applicable Conditions

- 3.3.1 The Permittee shall comply with all requirements of 40 CFR Part 60 - Standards of Performance of New Stationary Sources (NSPS), Subpart A - General Provisions, for the operation of the boilers with emission unit ID Nos.: B003 through B008.
[40 CFR 60, Subpart A and Subpart Dc]

3.3.2 The Permittee shall comply with all requirements of 40 CFR Part 60 - NSPS, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units for the operation of the boilers with emission unit ID No.: B003 through B008. [40 CFR 60, Subpart A and Subpart Dc]

3.3.3 The Permittee shall not discharge or cause the discharge into the atmosphere from the boilers with ID Nos. B006, B007, and B008 any visible emissions, the opacity of which is equal to or greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43c(c) and 391-3-1-.02(2)(d)3.]

3.4 Equipment SIP Rule Standards

3.4.1 The Permittee shall not cause, let, suffer, permit, or allow emissions from Engine Driven Generators G001 through G011; Paint Booths P001 through P007, and M002; Sponge-Jet Blasting Operation BL01; or any stack, the opacity of which is equal to or greater than 40 percent, based on Rule 391-3-1-.02(2)(b) of the Georgia Rules for Air Quality Control. [391-3-1-.02(2)(b)]

3.4.2 The Permittee shall not cause, let, suffer, permit, or allow emissions from Boilers B001 through B008, the opacity of which is equal to or greater than 20 percent (6 - minute average) except for one 6 - minute period per hour of not more than 27 percent opacity, as required by Rule 391-3-1-.02(2)(d)3 of the Georgia Rules for Air Quality Control. [391-3-1-.02(2)(d)3]

3.4.3 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from Boilers B001 through B008 particulate matter in amounts equal to or exceeding the amounts determined by the following equation:
[391-3-1-.02(2)(d)2(ii)]

$$P = 0.5 \left(\frac{10}{R} \right)^{0.5}$$

Where:

P = allowable weight of emissions of fly ash and/or other particulate matter in pound per million Btu heat input.

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

3.4.4 The Permittee shall not discharge or cause the discharge into the atmosphere from Sponge-Jet Blasting Operation BL01, Surface Coating operations P001 through P007, and emission unit M002 any gases which contain particulate matter equal to or in excess of the rate derived from the following equation:
[391-3-1-.02(2)(e)]

$$E = 4.1 (P)^{0.67}$$

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Where:

E equals the allowable emission rate in pounds per hour, and
 P equals the process input weight rate in tons per hour.

3.4.5 The Permittee shall not discharge or cause to be discharged into the atmosphere from Paint Booths P003, P004 and P005 the sum of emissions of volatile organic compounds (VOC) in an amount equal to or exceeding 100 tons during any consecutive twelve month period. [391-3-1-.02(2)(ii) avoidance]

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

3.5.1 The Permittee shall operate each filter and/or baghouse listed in Table 4 at all times when its associated emission unit is in operation. [391-3-1-.02(2)(a)10]

Table 4			
Pollution Control System ID No.		Emission Unit Controlled ID No.	
Dry Filters	DF01	Coating Operation	P001
	DF02		P002
	DF03		P003
	DF04		P004
	DF05		P005
	DF06		P006
	DF07		P007
	FIL01	Sponge-jet Blasting Operation	BL01
Baghouse	BH01	Wood Shop in the Training Support Center (TASC)	(M002)

3.5.2 The Permittee shall maintain an inventory of filters, bags and other consumables, such that an adequate supply is on hand to replace any defective and fouled filter, bag, or worn or damaged consumables in the collection systems listed in Table 4.

3.5.3 The Permittee shall perform filter or bag changes of each stage of the filtration systems for Emission Units P001 through P007, BL01, and M002, according to the filter manufacturer's recommendations or locally prepared operating procedures. A record shall be kept of the dates filter changes were performed. [391-3-1-.02(2)(a)10]

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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)]
- 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 for selection of sample point and velocity traverses.
 - b. Method 2 for the determination of velocity and volumetric flow rate.
 - c. Method 3 or 3A for the determination of stack gas molecular weight.
 - d. Method 3B for the determination of the emissions rate correction factor or excess air. Method 3A may be used as an alternative to Method 3B.
 - e. Method 4 for the determination of moisture content.
 - f. Method 5 for the determination of particulate matter (PM) emissions.
 - g. Method 7 for the determination of nitrogen oxides concentration. As an alternative to Method 7, Method 7A, 7C, 7D, or 7E may be used.
 - h. Method 9 and the procedures of Section 1.3 of the above document for the determination of opacity of emissions.
 - i. Method 19 when applicable, to convert particulate matter concentrations (i.e. grains/dscf), as determined using other methods specified in this section, to emission rates (i.e. lb/MMBtu).
 - j. ASTM D4057 for the collection of fuel oil samples.

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- k. Method 19, Section 12.5.2.2.3, shall be used for the determination of fuel oil sulfur content.
- l. Method 24 for the determination of volatile matter content, water content, density, volume solids, and weight solids in surface coatings.

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)]

4.2 Specific Testing Requirements

- 4.2.1 Within 60 days after the first firing of fuel oil in each boiler with ID Nos. B006, B007, and B008 following issuance of this permit, the Permittee shall cause to be conducted, while firing fuel oil, a Method 9 performance test for visible emissions on emissions from the boiler stack, to demonstrate compliance with the emission limit specified in Condition 3.3.3. If, during the initial 60 minutes of observation, all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent, the observation period may be reduced from 3 hours to 60 minutes.
[40 CFR 60.47c(g) and 391-3-1-.02(6)(b)1.(i)]

The Permittee shall notify the Division in writing, within 15 days after the first firing of fuel oil, that fuel oil was burned in the boiler(s). This notice shall indicate the facility's intent to conduct the performance test and the planned date of the test, or the actual date if the test has already been carried out.

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

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

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

5.2 Specific Monitoring Requirements

- 5.2.1 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

[391-3-1-.02(6)(b)1, 40CFR70.6(a)(3)(i)]

- a. A cumulating hour meter on each engine driven generator (Emission Unit ID Nos: G001 through G011). Data shall be recorded monthly.
- b. A fuel oil consumption meter or other method acceptable to the Division to measure fuel oil fired (in gallons) in Group 4 and Group 8 boilers (Emission Unit ID Nos: B003 through B008). Data shall be recorded at least monthly.
- c. A natural gas consumption meter or other method acceptable to the Division to measure natural gas fired (in cubic feet) in Group 4 and Group 8 boilers (Emission Unit ID Nos: B003 through B008). Data shall be recorded at least monthly.
- d. A pressure drop measurement device across each filter bank or baghouse with Air Pollution Control Device (APCD) ID Nos. DF01 through DF07, FIL01 and BH01, in units of inches of water column, for Paint Spray Booths P001 through P007, Sponge-jet Blasting operations BL01, and for the Woodshop M002 dust collection system. Data shall be recorded once per shift for each day of operation. These records shall include the individual pressure drop readings and the acceptable range(s) of pressure drop as specified by the filter or booth manufacturer or in locally prepared operating procedures.

- 5.2.2 The Permittee shall, on a weekly basis, perform an inspection of each filter system (APCD ID Nos. DF01 through DF07, and FIL01) and the baghouse (APCD ID No. BH01) when in operation. Any indication of improper operation of a dry filter or baghouse system and/or the need for any maintenance on a system shall be recorded in a maintenance log, along with a description of the corrective action and when it was completed. These records shall be kept in a form suitable for inspection or submittal to the Division.

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

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5.2.3 The Permittee shall install, calibrate, operate and maintain a Utility Monitoring and Control System (UMCS) to continuously monitor and record, per Condition 6.2.7, the electrical output, in kilowatts (kW), of each engine driven generator in Group 1, 2 and 3 described in Table 2.

[391-3-1-.02(6)(b)1, 40CFR70.6(a)(3)(i), 40 CFR 52.21 – PSD Avoidance]

5.2.4 The Permittee shall use the following equation to calculate the amount of oxides of nitrogen (NO_x) and sulfur dioxide (SO₂) emitted each month (monthly emission rate: ER_{ENG}) from the engine(s) listed in Table 5, using the operating hours measured by the meter(s) required by Condition 5.2.1a. and recorded per Condition 6.2.6.

[391-3-1-.02(6)(b)1, 40CFR70.6(a)(3)(i), 40 CFR 52.21 – PSD Avoidance]

$$H_{ENG} \left(\frac{\text{hours}_{ENG}}{\text{month}} \right) \times EF \left(\frac{\text{lb}_{NO_x \text{ or } SO_2}}{\text{hour}} \right) = ER_{ENG} \left(\frac{\text{lb}_{NO_x \text{ or } SO_2}}{\text{month}} \right)$$

Where:

H_{ENG} = Monthly hours an engine was operated

ER_{ENG} = Monthly calculated engine NO_x emissions

EF = Emission factor for engines listed in Table 5 below

Table 5 Emission factors for Group 8 engine driven generator operation		
Emission Unit ID No.	Per Engine Emission Factor EF for NO _x (lb _{NO_x} /hr)	Per Engine Emission Factor EF for SO ₂ (lb _{SO₂} /hr)
G011	13.28	0.872

5.2.5 The Permittee shall use the following equation to calculate the amount of oxides of nitrogen (NO_x) and sulfur dioxide (SO₂) emitted each month (monthly emission rate: ER_{boiler}) from the burning of fuels in Boilers B006, B007 and B008 using the fuel usage measured and recorded by the monitors required by Condition 5.2.1 and recorded per Condition 6.2.9.

[391-3-1-.02(6)(b)1, 40CFR70.6(a)(3)(i), 40 CFR 52.21 – PSD Avoidance]

$$\text{Fuel Used} \left(\frac{\text{cubic feet or gallons}}{\text{month}} \right) \times EF_{fuel} \left(\frac{\text{lb}_{NO_x \text{ or } SO_2}}{\text{cubic feet or gallons}} \right) = ER_{boilers} \left(\frac{\text{lb}_{NO_x \text{ or } SO_2}}{\text{month}} \right)$$

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Where:

- Fuel Used = Monthly fuel used in cubic feet per month or gallons per month
- ER_{boilers} = Monthly calculated boiler NO_x emissions
- EF_{fuel} = Emission factor for type of fuel used as listed in Table 6 below

Table 6 Emission factors for fuels fired in Group 8 boilers			
Fuel Type	Fuel Quantity Units	EF _{fuel} for NO _x (lb _{NO_x} /unit fuel)	EF _{fuel} for SO ₂ (lb _{SO₂} /unit fuel)
Natural Gas	Cubic feet	50.0x10 ⁻⁶	0.6x10 ⁻⁶
Distillate oil or Diesel Fuel Oil	Gallons	0.021	0.0785

5.2.6 Following the initial performance test required by Condition 4.2.1, subsequent Method 9 performance testing shall be conducted at the frequency specified in Table 7 below, in order to monitor compliance with the emission limit specified in Condition 3.3.3. If, during the initial 60 minutes of observation, all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent, the observation period may be reduced from 3 hours to 60 minutes.

[40 CFR 60.47c(g), 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

Table 7 Visible Emission Monitoring Frequency for Boilers B006, B007, and B008	
Highest 6-Minute Average Opacity Observed	Subsequent testing shall be conducted once the affected boiler fires on fuel oils after the period specified below following the most recent performance test
0%	12 Calendar Months
>0%-5%	6 Calendar Months
>5%-10%	3 Calendar Months
>10%	30 Calendar Days

5.2.7 If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test required by Condition 4.2.1 or 5.2.6, the Permittee may, as an alternative to performing subsequent Method 9 tests, elect to perform subsequent monitoring using Method 22, according to the following procedures.

[40 CFR 60.47c(g), 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

- a. The Permittee shall conduct 10-minute observations (during normal operation) each operating day the affected boiler (ID No. B006, B007, or B008) fires fuel oil, using Method 22, and demonstrate that the sum of the occurrence of any visible emissions while firing fuel oil is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10-minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10-minute observation, the Permittee shall immediately conduct a 30-minute observation. If the sum of the occurrence of visible

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emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30-minute period), the Permittee shall either document and adjust the operation of the boiler and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30-minute observation (i.e., 90 seconds), or conduct a new Method 9 performance test while firing fuel oil using the procedures in Condition 4.2.1, within 30 calendar days where fuel oil is being fired. Subsequent Method 9 testing shall not be required should the affected boiler no longer be firing fuel oil at the time the testing is required, but testing shall be conducted at the next occurrence when fuel oil is burned in the affected boiler.

- b. If no visible emissions are observed for 30 operating days during which fuel oil is fired, observations can be reduced to once every 7 operating days. If any visible emissions are observed, daily observations shall be resumed while fuel oil is being fired.

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

6.1.1 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and to the EPA. The records shall be retained for at least five (5) years following the date of entry.

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

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

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

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

6.1.3 The Permittee shall submit written reports of any failure to meet an applicable emission limitation or standard contained in this permit and/or any failure to comply with or complete a work practice standard or requirement contained in this permit which are not otherwise reported in accordance with Conditions 6.1.4 or 6.1.2. Such failures shall be determined through observation, data from any monitoring protocol, or by any other monitoring which is required by this permit. The reports shall cover each semiannual period ending June 30 and December 31 of each year, shall be postmarked by the 30th day following the end of each reporting period, July 30 and January 30, respectively, 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 the 30th day following the end of each reporting period, July 30 and January 30, respectively. 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)(i)]

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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 time the total combined energy output per any twelve consecutive months from any engine Emission Unit Group, listed in Table 8 below, exceeds the allowable energy output:

Table 8 Emission Unit Group Energy Output Limits per Condition 3.2.1	
Group	Allowable total energy output during any 12 month period.
Group 1 Emission Unit (Engine Generator Set)	2,039,200 kwh*
Group 2 Emission Units (Engine Generator Sets)	2,331,000 kwh*
Group 3 Emission Units (Engine Generator Sets)	3,118,500 kwh*
*kwh = 1000 Watt-hours	

- ii. Any time the total amount of fuel oil or natural gas fired in the Emission Unit Group 4 Boilers, listed in Condition 3.2.4, exceeds the listed annual allowable in Table 9 below:

Table 9 Emission Unit Group Fuel Limits		
Group	Total distillate oil allowed to be fired during any 12 month period	Total natural gas allowed to be fired during any 12 month period
Group 4 Emission Units (3 hospital boilers)	300,000 gallons	125,000,000 cubic feet

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- iii. Any time the total combined NO_x emitted during a twelve consecutive month period, from Group 8 emission units, exceeds 39.9 tons, per Condition 3.2.6.
 - iv. Any time the total combined SO₂ emitted during a twelve consecutive month period, from Group 8 emission units, exceeds 39.9 tons, per Condition 3.2.7.
 - v. Any period during which fuel oil burned in Boilers B001 through B008 has a sulfur content greater than 0.5%.
 - vi. Any result of a Method 9 performance test required by Condition 5.2.6 or 5.2.7a. that exceeds the opacity limit specified in Condition 3.3.4.
 - vii. Any VOC emissions equal to or exceeding 100 tons during any 12 consecutive month period from Paint Booths P003, P004 and P005.
 - viii. Any period during which diesel fuel oil burned in an engine driven peaking generator has a sulfur content greater than 0.05%.
 - ix. Any period during which diesel fuel oil burned in engine driven backup power generator G011 has a sulfur content greater than 0.5%.
 - x. Any month during which more than 100 gallons of finishing material or adhesives (as defined in Condition 2.1.1) was used by the facility in the manufacture of wood furniture or wood furniture components.
- c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)
- i. Any failure to follow the filter or bag change out procedures for Emission Unit ID Nos. P001 through P007, BL01, and M002 per Condition No. 3.5.3.
 - ii. Any occurrence when the pressure drop across any of the filters or baghouse with Air Pollution Control Device (APCD) ID Nos. DF01 through DF07, FIL01 and BH01, is outside of the proper operating range as specified by Condition No. 5.2.1.d.
 - iii. Any failure to operate the filters or baghouse for any emission unit during the reporting period, per Condition 3.5.1.
 - iv. Any indication of improper operation or adverse condition of a filter system (APCD Nos. DF01 through DF07, and FIL01) or a baghouse fabric filter (APCD No. BH01), as discovered by an inspection required by Condition 5.2.2.

6.2 Specific Record Keeping and Reporting Requirements

- 6.2.1 For all diesel fuel oil received for combustion in the engines listed in Table 1, the Permittee may demonstrate compliance with the fuel sulfur limits in Conditions 3.2.2 and 3.2.3, through the use of fuel supplier certifications. A fuel supplier certification shall contain the following information: (1) the name of the supplier; and (2) a statement from the supplier that the oil complies with the specifications of diesel fuel oil numbers 1-D, 2-D, Low Sulfur 1-D or Low Sulfur 2-D contained in ASTM D975.
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.2 For all distillate oil received for combustion in the boilers listed in Table 1, the Permittee may demonstrate compliance with the fuel sulfur limit in Condition 3.2.5, through the use of fuel supplier certifications. A fuel supplier certification shall contain the following information: (1) the name of the supplier; and (2) a statement from the supplier that the oil complies with the specifications of Numbers 1 or 2 fuel oil contained in ASTM D396.
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.3 In lieu of complying with Conditions 6.2.1 or 6.2.2, the Permittee may use a fuel sampling and analysis method to demonstrate compliance with Condition 3.2.5 or 3.2.2; the fuel sulfur content certification shall contain the following information:
- a. The name of the oil supplier.
 - b. The location of the oil where the sample was drawn for analysis to determine the sulfur content of the oil, specifically noting whether the oil was sampled as delivered to the Permittee or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location.
 - c. The sulfur content determined.
 - d. The method used to determine the sulfur content of the oil.
 - e. The quantity and type of fuel oil delivered.
- 6.2.4 At the request of the Division, the Permittee shall submit a sample of boiler fuel oil for analysis, which has been collected using methods specified by the Division.
[NSPS for boilers, PSD avoidance]
- 6.2.5 The Permittee shall retain records of all fuel burned by Emission Unit ID Nos: G001 through G010 for five years after the date and year of record. The records shall be available for inspection or submittal to the Division, upon request, and contain fuel supplier certifications or fuel oil analyses required by Condition 6.2.1.
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.6 The Permittee shall retain a record of total hours operated during each calendar month for each generator with Emission Unit ID Nos: G001 through G011. The records shall be available for inspection or submittal to the Division, upon request.
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]

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- 6.2.7 The Permittee shall retain a record of the total energy generated (in Kwh) during each calendar month for each engine generator in Engine Group Nos. 1 through 3.
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.8 The Permittee shall use the total monthly energy generated data recorded, per Condition 6.2.7, to calculate the total kwh generated during each 12 month period for each month during the semiannual reporting period for each applicable Generator Group (1, 2, and 3), to demonstrate compliance with the applicable limit in Condition 3.2.1.
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.9 The Permittee shall maintain monthly usage records of all distillate oil and natural gas, sufficient to demonstrate compliance with Conditions 3.2.4 and 3.3.2, for Boiler Groups 4 and 8. The records shall include the total number of gallons of fuel oil and cubic feet of natural gas used in each Boiler B003 through B008. The total fuel usage for the previous eleven months (twelve total) shall be included in each month's log. All calculations done to calculate usages shall be kept as part of the monthly record. These monthly fuel usage records shall be kept available for inspection or submittal.
[391-3-1-.02(6)(b)1(i), 40 CFR 70.6(a)(3)(i)]
- 6.2.10 The Permittee shall maintain monthly emission records of the NO_x and SO₂ emissions from fuel fired in Boilers B006 through B008 and operating hours of Engine G011, using the methods required in Conditions 5.2.4 and 5.2.5. The total combined NO_x and SO₂ emissions for that month and the previous eleven months (twelve total) shall be included in each month's log. All calculations used to figure emissions shall be kept as part of the monthly record. These monthly emission records shall be kept available for inspection or submittal.
[391-3-1-.02(6)(b)1, 40CFR70.6(a)(3)(i), 40 CFR 52.21 – PSD Avoidance]
- 6.2.11 The Permittee shall submit a semiannual report by July 30 and January 30 for the semiannual reporting periods ending June 30 and December 31, respectively, unless otherwise approved by the Division. The report shall be prepared from records retained per Conditions 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.9, 6.2.10, and 6.2.16. The reports submitted to the Division shall include the following:
[391-3-1-.03(2)(c)]
- a. A statement, signed by an official of the company, affirming that all fuel oil burned in engines during the reporting period was diesel fuel oil, as defined in Condition 6.2.1.
 - b. The total combined operating hours for each engine driven generator group during each of the previous twelve consecutive month periods, for each calendar month in the semiannual reporting period (i.e., six 12 month totals).
 - c. The total combined energy generated by each engine driven generator group during each of the previous twelve consecutive month periods for each calendar month in the semiannual reporting period (i.e., six 12 month totals).

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- d. A statement, signed by an official of the company, affirming that all fuel oil burned in all boilers during the reporting period was distillate fuel oil, as defined in Condition 6.2.2.
 - e. The total quantity of distillate oil burned in each of the Group 4 and Group 8 boilers during the previous twelve consecutive month periods for each calendar month in the semiannual reporting period (i.e., six 12 month totals).
 - f. The total quantity of natural gas burned in each of the Group 4 and Group 8 boilers during the previous twelve consecutive month periods for each calendar month in the semiannual reporting period (i.e., six 12 month totals)
 - g. The total combined NO_x and SO₂ emissions calculated per Condition 6.2.10 for the Group 8 engine driven generator and boilers during each of the previous twelve consecutive month periods for each calendar month in the semiannual reporting period (i.e., six 12 month totals).
- 6.2.12 The Permittee shall record and maintain records of the initial performance test required by Condition 4.2.1 and of the visible emissions monitoring done in accordance with Conditions 5.2.6 and 5.2.7, as specified in paragraphs a or b below, as applicable, depending on the visible emissions monitoring method that is used.
[40 CFR 60.47c(g), 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]
- a. For each performance test conducted using Method 9, the Permittee shall keep records, including the following information:
 - i. Dates and time intervals of all opacity observation periods.
 - ii. Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test.
 - iii. Copies of all visible emission observer opacity field data sheets.
 - b. For each performance test conducted using Method 22, the owner or operator shall keep records, including the following information:
 - i. Dates and time intervals of all visible emissions observation periods.
 - ii. Name and affiliation for each visible emission observer participating in the performance test.
 - iii. Copies of all visible emission observer opacity field data sheets.
 - iv. Documentation of any adjustments made and the time the adjustments were completed to the affected boiler by the Permittee to demonstrate compliance with the applicable monitoring requirements.

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Coating Operations

- 6.2.13 The Permittee shall maintain monthly usage records of all materials containing VOCs or activities producing VOCs for surface coating Emission Units P003 through P007 and M002.
[391-3-1-.03(2)(ii) avoidance, PSD avoidance, 391-3-1-.02(6)(b)1, and 391-3-1-.03(2)(c)]
- 6.2.14 The VOC records specified in Condition 6.2.13 shall include the total weight of each material used, the VOC content of each material (expressed as a weight percentage), and the weight of any material disposed of as waste. All calculations used to determine usages should be kept as part of the monthly record. These usage records shall be kept available for inspection or submittal for five years from the date of record.
[391-3-1-.03(2)(ii) avoidance, 391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]
- 6.2.15 The Permittee shall use the monthly usage records required in Conditions 6.2.13 and 6.2.14 to calculate total monthly VOC emissions from Emission Units P003 through P007, and M002. The Permittee shall notify the Division in writing if the VOC emissions exceed 8.30 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 3.4.5.
[391-3-1-.03(2)(ii) avoidance, 391-3-1-.02(6)(b)1, and 391-3-1-.03(2)(c)]
- 6.2.16 The Permittee shall use the VOC monthly usage records required in Condition 6.2.15 to calculate the twelve (12) month rolling total of plant wide VOC emissions for each month in the reporting period. Each 12 month rolling total shall be included in the semiannual report specified in Condition 6.1.4.
[391-3-1-.03(2)(ii) avoidance, 391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]
- 6.2.17 The Permittee shall use the monthly usage records required by Conditions 6.2.13 and 6.2.14 to calculate total monthly VOC emissions from Emission Units P006 and P007. The Permittee shall notify the Division in writing if the VOC emissions exceed 3.25 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 3.2.8.
[PSD avoidance, 391-3-1-.02(6)(b)1, and 391-3-1-.03(2)(c)]
- 6.2.18 The Permittee shall maintain monthly usage records (in gallons) of all coating operations using finishing materials and / or adhesives on wood furniture or wood furniture components (as defined in Condition 2.1.1). This includes Paint Booths P001 through P007, and the Wood Shop M002 as well as any other facilities on site that do coating.
[40CFR63.802 avoidance, 391-3-1-.02(6)(b)1, and 391-3-1-.03(2)(c)]

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- 6.2.19 The Permittee shall maintain a log indicating any failure to operate any of the following pieces of air pollution control equipment: exhaust/overspray filters with APCD Nos. DF01, DF02, DF03, DF04, DF05, DF06, DF07 and FIL01 or baghouse with APCD No. BH01, at any time that the equipment it controls is operating: Paint Spray Booths P001, P002, P003, P004, P005, P006, P007; the Sponge-jet Blasting equipment BL01; and the Training Support Center M002, respectively. Failure to operate such control device, as prescribed in Condition 3.5.1, shall be reported in accordance with Condition 6.1.7 and this shall be indicated in the log.
[391-3-1-.02(6)(b)1(ii)]
- 6.2.20 The Permittee shall maintain records of filter changes in the filter systems for emission units P001 through P007, M002 and BL01. A checklist or other similar log may be used for this purpose. These records shall be kept in a form suitable for inspection or submittal to the Division.
[391-3-1-.03(6)(b)(1)]
- 6.2.21 The Permittee shall perform annual inspections and maintenance on the Woodshop M002 Baghouse BH01, including the following:
[391-3-1-.02(6)(b)]
- a. While the baghouse is operating perform a check of visible emissions and inspect emissions units serviced by the baghouse for mechanical problems or malfunctions in dust collection. For any observation of visible emissions, mechanical problems, or malfunctions, the Permittee shall take corrective action and re-inspect the equipment to verify that no visible emissions exist and that any mechanical problems or malfunctions have been corrected. The observations and corrective actions shall be recorded in a log suitable for inspection or submittal to the Division and shall be maintained for a period of five (5) years from date of data entry.
 - b. An inspection of the baghouse dust collection hopper to ensure that there is no bridging and blockage of the hopper discharge valve (device) and that the discharge valve is functioning properly.
 - c. Maintenance as prescribed by the baghouse manufacturer, including but not limited to:
 - i. Replacement of worn bags.
 - ii. Replacement of worn adjustable fan belts.
 - iii. Lubrication of moving parts.
 - iv. Adjusting the bag cleaning system to assure proper cleaning.
 - v. Ensuring that equipment seals are flexible and functional.
 - vi. Cleaning and repairing of rust and holes in the baghouse structure, especially in the tube-sheet housing for the filter bags.

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d. Calibration of the differential pressure indicator / sensor using the appropriate procedures.

6.2.22 The Permittee shall maintain a copy of the manufacturers operating procedures or prepare and maintain local operating procedures for Emission Units P001 through P007, BL01, and TASC. These procedures shall contain changeout frequencies for each filter as well as maintenance requirements.

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

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.

7.1.2 When a national security emergency occurs, the resulting surge conditions shall not be considered in determining compliance with permit terms.
[40 CFR Part 70.6]

- a. For purposes of this condition, a "national security emergency" means a situation where extremely quick action on the part of a Military Department or a Department of Defense component is needed, and when timing of such action may make it impracticable to meet one or more requirements of an applicable permit. National security emergencies are actions necessary to support operation of the United States forces introduced into hostilities or introduced into situations where involvement in hostilities is indicated or a possibility, peacekeeping operations, rendering emergency humanitarian relief, actions to extinguish wildfires, immediate responses to the release or discharge of oil or hazardous material in accordance with approved Spill Prevention and Response Plans and Spill Contingency Plans, and responses to natural disasters such as hurricanes, earthquakes, or civil disturbances.
- b. A "surge condition" occurs when the temporary response to the national security emergency requires an increase above and beyond the normal operating levels of the installation or activity and such increase cannot be accommodated within the terms of the applicable permit limitations.

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- 7.1.3 The commander of the US Army Signal Center and Fort Gordon shall determine when a national security emergency surge condition exists and shall provide notice of the surge condition to the Georgia EPD, at the address listed in Condition 8.8.2, and to Region 4 of the U. S. EPA, at the address listed in Condition 8.8.2, and shall report such determination to their chain of command in writing, within five working days after the start of the surge conditions.
[40 CFR Part 70.6]
- 7.1.4 The commander of US Army Signal Center and Fort Gordon shall make a determination that a national security emergency surge condition exists only after making reasonable efforts to accommodate the increase within allowable requirements and permit limits.
[40 CFR Part 70.6]
- 7.1.5 If the national security emergency surge condition extends beyond 30 calendar days from the date of the notice, the continued use of this national security emergency provision must be approved by the responsible Secretary or Director of the HQ US Army.
[40 CFR Part 70.6]
- 7.1.6 Within forty-five working days after the emergency surge condition has ended, the commander of US Army Signal Center and Fort Gordon shall provide a written report to the Georgia EPD, to U. S. EPA Region 4, and to the Secretary or Director of the HQ US Army, describing the amount of increased pollutants caused by the surge condition.
[40 CFR Part 70.6]

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]

None 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 become applicable, the Permittee shall comply with all applicable requirements of 40 CFR Part 68, including the following.

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

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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 (e.g., diskette or compact disc) to:

MAIL

Attention: RMP*Submit
Risk Management Program (RMP) Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD 20703-1515

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COURIER & FEDEX

**Risk Management Program (RMP) Reporting Center
C/O CSC
Suite 300
8400 Corporate Drive
New Carrollton, MD 20785**

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.

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- 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
9711-245-0021-V-01-0	October 21, 2003
9711-245-0021-V-01-1	August 30, 2007

7.13 Pollution Prevention

None applicable.

7.14 Specific Conditions

None applicable.

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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)]

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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)]

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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 one (1) year or longer. 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 compliance with the applicable requirement is not required until after the date on which the Permit is due to expire;
[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)]

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- 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)]

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- 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 January 30 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)]

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- 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**8.15.1 State Only Enforceable Condition.**

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)]

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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.

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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 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

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- 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, 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, 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 which are individually large enough to be visible to the unaided eye.
- 8.24.4 No person shall operate an existing incinerator 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.

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8.25 Volatile Organic Liquid Handling and Storage

8.25.1 The Permittee shall ensure that each storage tank subject to the requirements of 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 Diesel-Fired Internal Combustion Engines

8.27.1 The Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) Federal Rule 40 CFR Part 60 Subpart A-"General Provisions" and Subpart IIII-"Standards for Stationary Compression Ignition Internal Combustion Engines," for diesel-fired internal combustion engine(s) manufactured after April 1, 2006 or modified/reconstructed after July 11, 2005. Such requirements include but are not limited to:

[40 CFR 60.4205(b), 391-3-1-.02(8)(b)77]

- a. Equip all emergency generator engines with non-resettable hour meters
- b. Use only diesel fuel with a maximum sulfur content of 500 ppm (15 ppm after October 1, 2010) unless otherwise specified by the Division.

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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

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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.	1
	2. Small incinerators that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act and are not considered a "designated facility" as specified in 40 CFR 60.32e of the Federal emissions guidelines for Hospital/Medical/Infectious Waste Incinerators, that are operating as follows: i) Less than 8 million BTU/hr heat input, firing types 0, 1, 2, and/or 3 waste. ii) Less than 8 million BTU/hr heat input with no more than 10% pathological (type 4) waste by weight combined with types 0, 1, 2, and/or 3 waste. iii) Less than 4 million BTU/hr heat input firing type 4 waste. (Refer to 391-3-1-.03(10)(g)2.(ii) for descriptions of waste types)	
	3. Open burning in compliance with Georgia Rule 391-3-1-.02 (5).	1
	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.	28
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.	2
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.	1
	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.	1
	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.	2
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. 	2
	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.	55
	4. All pressurized vessels designed to operate in excess of 30 psig storing petroleum fuels that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	5. Gasoline storage and handling equipment at loading facilities handling less than 20,000 gallons per day or at vehicle dispensing facilities that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	1
	6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.	
	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
Asphalt Paving & Repair (1 organization)	1
Cold Degreasers (8 degreasers)	8
Communications and Electronics Repair: minor amounts of solvents used (1 organization)	1
Fire Fighter Training- conducted in a 3-story burn structure (1 building)	1
Firing Range Operations (49 ranges)	49
Gas Extraction System- Gibson Road Landfill (1 system)	1
Oil Water Separators & Grit Chambers (14 separators)	14
Pesticide and Herbicide Applications (3 locations)	3
Safety Certification Unit (1 unit)	1
Traffic Striping: Painting roadway lines (1 organization)	1
Unpaved roads (62 miles)	62
Plastic Shop (M001)	1

ATTACHMENT B (continued)

GENERIC EMISSION GROUPS

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

Description of Emissions Units / Activities	Number of Units (if appropriate)	Applicable Rules		
		Opacity Rule (b)	PM from Mfg Process Rule (e)	Fugitive Dust Rule (n)
Unpaved Roads- Units are in miles.	62	No	No	Yes
Woodworking	1	No	Yes	No

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.	71

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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.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/tanks.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).