

# Part 70 Operating Permit Amendment

Permit Amendment No.: **9431-089-0005-V-01-2**      Effective Date: **January 17, 2006**

**Facility Name:**            **Centers for Disease Control and Prevention - Clifton**  
1600 Clifton Road, N.E.  
Atlanta, DeKalb County

**Facility Address**        1600 Clifton Road N.E.  
Atlanta, Georgia 30333

**Mailing Address:**      1600 Clifton Road N.E., MS: A-17  
Atlanta, Georgia, 30333

**Parent/Holding Company:**    U.S. Department of Health and Human Services, Centers for Disease Control and Prevention

**Facility AIRS Number:**    04-13-089-00005

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 an amendment to the Part 70 Operating Permit for:

The facility is installing a new 2250 kW<sub>e</sub> diesel engine driven emergency standby generator with emissions unit identification number CG14. The amendment also revises limits for boilers and engines.

This Permit Amendment shall also serve as a final amendment to the Part 70 Permit unless objected to by the U.S. EPA or withdrawn by the Division. The Division will issue a letter when this Operating Permit amendment is finalized.

This Permit Amendment 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 Amendment and Permit No. 9431-089-0005-V-01-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. TV-15583 dated August 30, 2004; any other applications upon which this Permit Amendment or Permit No. 9431-089-0005-V-01-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **12** pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 9431-089-0005-V-01-0.

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Director  
Environmental Protection Division

**Title V Permit Amendment**

**Table of Contents**

**PART 1.0 FACILITY DESCRIPTION ..... 1**  
1.3 Process Description of Modification ..... 1

**PART 3.0 REQUIREMENTS FOR EMISSION UNITS ..... 2**  
3.1 Additional Emission Units ..... 2  
3.2 Equipment Emission Caps and Operating Limits ..... 5  
3.4 Equipment SIP Rule Standards ..... 6

**PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection) ..... 7**  
5.2 Specific Monitoring Requirements ..... 7  
5.3 Record Keeping and Reporting Requirements (associated with Specific  
Monitoring Requirements) ..... 7

**PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS ..... 8**  
6.1 General Record Keeping and Reporting Requirements ..... 8  
6.2 Specific Record Keeping and Reporting Requirements ..... 11

**PART 1.0 FACILITY DESCRIPTION****MODIFIED CONDITION****1.3 Process Description of Modification*****Background, 2002 through August 2004***

In 2002, Application 13808 was received by the Division from CDC. It proposed the addition of heating capacity (boilers) and electrical energy equipment (diesel engine driven generators) in support of a "West Campus" construction project. In the original application CDC proposed four 1825 kW<sub>e</sub> diesel engine driven generators, later upgraded to 2000 kW<sub>e</sub> generators, to be installed in the year 2004. On January 14, 2004 the Division received Application 14958 from CDC outlining a 10 year plan to construct a combined heat and power project (CHPP) that included two 7MW<sub>e</sub> gas turbine driven generators to replace older boilers and engine driven generators instead of the plans proposed by Application 13808. Construction was to begin in the late summer of 2004 and included the addition of temporary power via rental diesel engine driven generators. In the summer of 2004, CDC abandoned their plans for the CHPP. This left a deficit of standby electrical energy power needed by the fall of 2004. CDC submitted Application 15538, dated August 9, 2004, that substituted four engine driven 2250 kW<sub>e</sub> generators (with Emission Unit ID#'s CG10 through CG13) for the four engine driven 2000 kW<sub>e</sub> generators originally permitted under application 13808. The Title V permit was amended (amendment number: 9431-089-0005-V-01-1) March 9, 2005.

***Current project history, August 2004 to present***

CDC found that one more engine driven 2250kW<sub>e</sub> generator was needed to meet the power needs of the campus as its construction progressed. Therefore, CDC submitted application 15583 for that additional engine driven generator, which is to be designated CG14. The vendor information submitted with the application was similar to the previously permitted four engines CG10 through CG13. This modification adds CG14 and redistributes allowable annual NO<sub>x</sub> to be considered a de-minimis NO<sub>x</sub> increase under ozone nonattainment NSR rules by separating the five engines from Boiler BL10. Engines CG10 through CG14 are now to be subject to a 9-ton NO<sub>x</sub> limit and Boiler BL10 to a separate limit of 6-ton NO<sub>x</sub> limit.

## Title V Permit Amendment

### 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.

#### 3.1.1 Emission Units

MODIFIED TABLE (as found in Permit Amendment 9431-089-0005-V-01-2)

<b>Table 1 Emission Unit Description and Applicable Requirements</b>					
Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
BL02	Babcock and Wilcox Water Tube Boiler; field erected in 1958; in Building #10. 40,000 lb/hr steam @ 160psig (56x10 <sup>6</sup> Btu/hr) firing NG and #2FO	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g)	3.2.2, 3.4.4, 3.4.5, 6.1.7, 6.2.1, 6.2.3, 6.2.11, 6.2.12	None	None
BL03	Babcock and Wilcox Water Tube Boiler; field erected in 1958; in Building #10. 40,000 lb/hr steam @ 160psig (56x10 <sup>6</sup> Btu/hr) firing NG and #2FO	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g)	3.2.2, 3.4.4, 3.4.5, 6.1.7, 6.2.1, 6.2.3, 6.2.11, 6.2.12	None	None
BL04	Keeler Water Tube Boiler; field erected in 1965; in Building #10. Refurbished and modified in 2001 by replacing 3 old burners with one new burner (NG) made by Coen, Model DSF 2000-SB-UV. The natural gas burner is low NO <sub>x</sub> . Also included in the modification was Flue Gas Recirculation (FGR), which reduces NO <sub>x</sub> for both NG and fuel oil combustion. Subject to 40 CFR 60 Subpart Dc. 40,000 lb/hr steam @ 160psig (52.85x10 <sup>6</sup> Btu/hr firing NG, and 50.46x10 <sup>6</sup> Btu/hr firing #2FO)	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) 40CFR60 Subpart Dc PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.2, 3.2.4, 3.3.1, 3.3.2, 3.4.1, 3.4.4, 4.2.3, 5.2.1, 5.2.2, 5.2.3, 5.3.2, 6.1.7, 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.11, 6.2.12, 6.2.13	None	None
BL07 (a.k.a. BL01)	Babcock and Wilcox Water Tube Boiler, field erected in 2001 in Building #10. Subject to 40 CFR 60 Subpart Dc. Low NO <sub>x</sub> burners, Coen model: 870, QLN-3.4 80,000 lb/hr steam @ 125psig (96.53x10 <sup>6</sup> Btu/hr firing NG, and 93.16x10 <sup>6</sup> Btu/hr firing #2FO)	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(III) 40CFR60 Subpart Dc PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.2, 3.2.4, 3.2.5, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.4.4, 4.2.3, 4.2.4, 5.2.1, 5.2.2, 5.2.3, 5.3.2, 6.1.7, 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.11, 6.2.12, 6.2.13, 6.2.17	None	None
BL08	Kewanee Boiler, model L3W-50-GO, located at laboratory Building #16, installed 1995, firing NG and #2FO 50 HP (1.7x10 <sup>6</sup> Btu/hr)	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g)	3.2.2, 3.4.1, 3.4.3, 6.1.7, 6.2.1, 6.2.3, 6.2.11, 6.2.12	None	None
BL09	Kewanee boiler, model L3W-50-GO, located at laboratory Building #16, installed 1995, firing NG and #2FO 50 HP (1.7x10 <sup>6</sup> Btu/hr)	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g)	3.2.2, 3.4.1, 3.4.3, 6.1.7, 6.2.1, 6.2.3, 6.2.11, 6.2.12	None	None

## Title V Permit Amendment

<b>Table 1 Emission Unit Description and Applicable Requirements</b>					
<b>Emission Units</b>		<b>Specific Limitations/Requirements</b>		<b>Air Pollution Control Devices</b>	
<b>ID No.</b>	<b>Description</b>	<b>Applicable Requirements/Standards</b>	<b>Corresponding Permit Conditions</b>	<b>ID No.</b>	<b>Description</b>
BL10	Babcock and Wilcox Water Tube Boiler, contract number: FM103-88 M, field erected in 2002 in Building #10. Subject to 40 CFR 60 Subpart Dc. Low NO <sub>x</sub> burners: Coen model QLN-870 80,000 lb/hr steam @125psig (96.84x10 <sup>6</sup> Btu/hr firing NG, 93.08x10 <sup>6</sup> Btu/hr firing #2FO)	Rule 391-3-1-.02(2)(d) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(III) 40CFR60 Subpart Dc PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.2, 3.2.4, 3.2.5, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.4.4, 4.2.1, 4.2.2, 5.2.1, 5.2.2, 5.2.3, 5.3.2, 6.1.7, 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.11, 6.2.12, 6.2.15, 6.2.17, 6.2.19	None	None
CG01	Diesel engine driven 1400 kW <sub>e</sub> generator next to Building #10, model 3516A, made by Caterpillar, used for emergency service (installed before 1997) firing diesel fuel. 1971 HP	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm)	3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12	None	None
CG02	Diesel engine driven 1400 kW <sub>e</sub> generator next to Building #10, model 3516A, made by Caterpillar, used for emergency service (installed before 1997) firing diesel fuel. 1971 HP	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm)	3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12	None	None
CG03	Diesel engine driven 1825kW <sub>e</sub> generator next to Building #10, model 3516B, made by Caterpillar, used for emergency service, installed 1998, firing diesel fuel, 2628 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.14	None	None
CG04	Diesel engine driven 1825kW <sub>e</sub> generator next to Building #10, model 3516B, made by Caterpillar, used for emergency service, installed 1998, firing diesel fuel, 2628 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.14	None	None
CG05	Diesel engine driven 1825kW <sub>e</sub> generator next to Building #10, model 3516B, made by Caterpillar, used for emergency service, installed 1998, firing diesel fuel, 2628 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.14	None	None
CG06	Diesel engine driven 1825 kW <sub>e</sub> generator next to Building #10, model 3516A, made by Caterpillar, used for emergency service, installed 1998, firing diesel fuel, 2628 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.14	None	None
CG07	Diesel engine driven 400 kW <sub>e</sub> generator next to Building #15, model 3408, made by Caterpillar, used for emergency service (installed before 1997) firing diesel fuel, 563 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm)	3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12	None	None
CG08	Diesel engine driven 1400 kW <sub>e</sub> generator next to Building #16, model SR4-3516, made by Caterpillar, used for emergency service (installed before 1997) firing diesel fuel, 1971 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm)	3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12	None	None

## Title V Permit Amendment

<b>Table 1 Emission Unit Description and Applicable Requirements</b>					
<b>Emission Units</b>		<b>Specific Limitations/Requirements</b>		<b>Air Pollution Control Devices</b>	
<b>ID No.</b>	<b>Description</b>	<b>Applicable Requirements/Standards</b>	<b>Corresponding Permit Conditions</b>	<b>ID No.</b>	<b>Description</b>
CG09	Diesel engine driven 1400 kW <sub>e</sub> generator next to Building #16, model SR4-3516, made by Caterpillar, used for emergency service (installed before 1997) firing diesel fuel, 1971 HP.	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm)	3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12	None	None
CG10	Diesel engine driven 2,250kW <sub>e</sub> (standby service rating) generator located at Building 21, used for emergency standby service, installed 2004, Engine standby rating is 3214 HP firing diesel fuel	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) 391-3-1-.03(8)(c)13.(ii) PSD Avoidance NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.15	None	None
CG11	Diesel engine driven 2,250kW <sub>e</sub> (standby service rating) generator located at Building 21, used for emergency standby service, installed 2004, Engine standby rating is 3214 HP firing diesel fuel	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) 391-3-1-.03(8)(c)13.(ii) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.15	None	None
CG12	Diesel engine driven 2,250kW <sub>e</sub> (standby service rating) generator located at the Central Utility Plant, used for emergency standby service, installed 2004, Engine standby rating is 3214 HP firing diesel fuel	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) 391-3-1-.03(8)(c)13.(ii) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.15	None	None
CG13	Diesel engine driven 2,250kW <sub>e</sub> (standby service rating) generator located at the Central Utility Plant, used for emergency standby service, installed 2004, Engine standby rating is 3214 HP firing diesel fuel	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) 391-3-1-.03(8)(c)13.(ii) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.15	None	None
CG14	Diesel engine driven 2,250kW <sub>e</sub> (standby service rating) generator located at the Central Utility Plant, used for emergency standby service, installed 2005, Engine standby rating is 3214 HP firing diesel fuel	Rule 391-3-1-.02(2)(b) Rule 391-3-1-.02(2)(g) Rule 391-3-1-.02(2)(mmm) 391-3-1-.03(8)(c)13.(ii) PSD Avoidance NAA NSR Avoidance	3.2.1, 3.2.3, 3.4.5, 3.4.6, 3.4.7, 5.2.1, 5.2.4, 5.3.3, 6.1.7, 6.2.2, 6.2.3, 6.2.7, 6.2.8, 6.2.11, 6.2.12, 6.2.15, 6.2.18	None	None

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

### **3.2 Equipment Emission Caps and Operating Limits**

#### Revised Condition

- 3.2.1 The Permittee shall comply with the following oxides of nitrogen (NO<sub>x</sub>) emission limits: [391-3-1-.03(8)(c)13(ii), avoidance of ozone non-attainment area NSR]
- a. From diesel engine driven Generators CG03 through CG06 combined, the emissions of NO<sub>x</sub> shall not be in an amount equal to or exceeding 15.0 tons during any consecutive twelve-month period.
  - b. From Boilers BL04 and BL07 combined, the sum of emissions of NO<sub>x</sub> shall not be in an amount equal to or exceeding 10.0 tons during any consecutive twelve-month period.
  - c. From Boiler BL10, the sum of emissions of NO<sub>x</sub> shall not be an amount equal to or exceeding 6.0 tons during any consecutive twelve-month period.
  - d. From diesel engine driven Generators CG10 through CG14 combined, the emissions of NO<sub>x</sub> shall not be in an amount equal to or exceeding 9.0 tons during any consecutive twelve-month period.
- 3.2.2 Fuel oil fired in boilers with ID Nos. BL02 through BL04 and BL07 through BL10 shall be distillate fuel oil and shall not contain more than 0.5 percent sulfur by weight. Fuel oil means fuel oil that complies with the specifications for fuel oil Nos. 1 and 2, as defined by the American Society for Testing and Materials (ASTM) standard ASTM D396, "Standard Specification for Fuel Oils."  
[40CFR52.51, PSD Avoidance, 391-3-1-.02(2)(b) and 391-3-1-.02(2)(g)(Subsumed)]
- 3.2.3 Fuel oil fired in engines with ID Nos. CG01 through CG14 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 Nos. 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) and 391-3-1-.02(2)(g)(Subsumed)]
- 3.2.4 The Permittee shall not burn more than 957,000 gallons of distillate fuel oil in Boilers BL04, BL07 and BL10 combined, during any 12 consecutive months period.  
[40CFR52.51, PSD avoidance]
- 3.2.5 The Permittee shall fire only natural gas during the months of May through September, in Boilers BL07 and BL10 combined, during any 12 consecutive months period.  
[391-3-1-.02(2)(III)]

**3.4 Equipment SIP Rule Standards**

- 3.4.5 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from stationary internal combustion Engines CG01 through CG14, Boilers BL02 and BL03, Paint Booth PB01, or any stacks or vents, any visible emissions the opacity of which is equal to or greater than 40 percent.  
[391-3-1-.02(2)(b)]
- 3.4.6 The Permittee shall assure that engine driven generators with emission unit ID Nos. CG01 through CG14 so are only capable of operating in the emergency standby mode of service. Each engine driven generator must meet the definition of an “emergency standby stationary engine” as defined in 391-3-1-.02(2)(mmm), and shall only operate the units during emergency loss of utility electric power service, or engine maintenance and operability testing, to be exempt from the Rule (mmm) NO<sub>x</sub> limit.  
[391-3-1-.02(2)(mmm)7]
- 3.4.7 The Permittee shall limit the total hourly operation of each diesel engine driven generator CG01 through CG14 to less than 200 hours during any 12-months period.  
[391-3-1-.02(2)(mmm)7]

**PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**

**5.2 Specific Monitoring Requirements**

5.2.4 The Permittee shall use the following equations to calculate the mass of nitrogen oxides (NO<sub>x</sub>) emitted each calendar month (monthly emission rate: ER<sub>ENG</sub>) from each of the diesel Engines indicated, using the hours operated as measured by the cumulating hour meters required by Condition **5.2.1**.

[391-3-1-.02(6)(b)1, 391-3-1-.03(8)(c)13.(ii) NSR Avoidance and 40 CFR 70.6(a)(3)(i)]

- a. For Engines CG03 through CG06, use the following equation to calculate the NO<sub>x</sub> emissions per month of operation:

$$ER_{ENG} \left( \frac{lb_{NO_x}}{month} \right) = H_{ENG} \left( \frac{hours_{ENG}}{month} \right) \times 50.7 \left( \frac{lb_{NO_x}}{hour} \right)$$

- b. For Engines CG10 through CG14, use the following equation to calculate the NO<sub>x</sub> emissions per month of operation:

$$ER_{ENG} \left( \frac{lb_{NO_x}}{month} \right) = H_{ENG} \left( \frac{hours_{ENG}}{month} \right) \times 61.8 \left( \frac{lb_{NO_x}}{hour} \right)$$

Where,

H<sub>ENG</sub> = Number of hours an engine operated during the month.

ER<sub>ENG</sub> = NO<sub>x</sub> emissions emitted from an engine during the month (lbs/month).

**5.3 Record Keeping and Reporting Requirements (associated with Specific Monitoring Requirements)**

5.3.3 The Permittee shall maintain records of the following information:  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- a. The Number of hours each Diesel Engine CG01 through CG14 operated during each calendar month, and
- b. The NO<sub>x</sub> mass emissions, for each Diesel Engine CG03 through CG06, and CG10 through CG14, calculated in accordance with the requirements of Condition **5.2.4**, for each calendar month.

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

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)]

- 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 twelve consecutive month period during which total NO<sub>x</sub> emissions from Boilers BL04 and BL07 equal or exceed 10 tons.
  - ii. Any twelve consecutive month period during which total combined NO<sub>x</sub> emissions from Boiler BL10 equal or exceeding 6 tons.
  - iii. Any twelve consecutive month period during which total combined NO<sub>x</sub> emissions from Engine Generators CG03 through CG06 equal or exceed 15 tons.
  - iv. Any time fuel oil is burned, in Boilers BL02, BL03, BL04, BL07, BL08, BL09 or BL10, which does not comply with the specifications of fuel oil Numbers 1 or 2 as defined by ASTM D 396 "Standard Specification for Fuel Oils".
  - v. Any time diesel fuel oil is burned in engines with ID Nos. CG01 through CG14 which does not comply with the specifications for diesel fuel oil Nos. 1-D, 2-D, Low Sulfur 1-D or Low Sulfur 2-D as contained in ASTM D975 "Standard Specification for Diesel Fuel Oils."
  - vi. Any twelve consecutive month period for which the total consumption of fuel oil in Boilers BL04, BL07 and BL10 exceeds 957,000 gallons.

## Title V Permit Amendment

- vii. Any three-hour period during which the average NO<sub>x</sub> emission rate from Boiler BL07 or BL10 is equal to or greater than 30 ppm, corrected to 3% oxygen on a dry basis. This condition only applies May 1 through September 30 of each year. For the purposes of this condition, each clock hour begins a new three-hour period.
- viii. Operating any of the Engine Generators CG01 through CG14 for reasons other than: (a) during emergency loss of electric power from the local utility, or (b) during preventive maintenance on the engine, or (c) during reliability operability testing of the engine.
- ix. Any three-hour period during which the average charging rate for Incinerator INC1 is equal to or greater than 75 pounds. For the purposes of this condition, each clock hour begins a new three-hour period.
- x. Any three-hour period during which the average charging rate for Incinerator INC2 is equal to or greater than 500 pounds. For the purposes of this condition, each clock hour begins a new three-hour period.
- xi. Any calendar quarter during which the quantity of Hospital/Medical/Infectious waste charged in either Incinerator INC1 or INC2 is equal to or exceeds 10 percent of the total waste burned in the incinerator.
- xii. Any measurement of the outlet temperature of the secondary chamber of incinerator INC1 or INC2 which is more than 50 degrees F (27.7 deg. C) below 1500 degrees F (815 deg. C), measured in accordance with Condition No. **5.2.5**.
- xiii. Any measurement of the inlet temperature of the primary chamber of incinerator INC1 or INC2 which falls more than 50 degrees F (27.7 deg. C) below 800 degrees F (426.6 deg. C), measured in accordance with Condition No. **5.2.5**.
- xiv. Any time that the total mass charged to Incinerator INC1 exceeds 1000 pounds before shutting down to remove ash, in accordance with Condition No. **3.4.8**.
- xv. Any time that the total mass charged to Incinerator INC2 exceeds 5000 pounds before shutting down to remove ash, in accordance with Condition No. **3.4.8**.
- xvi. Any twelve consecutive month period for which the total NO<sub>x</sub> emissions from Engine Generators CG10 through CG14 combined equal or exceeds 9-tons.

## Title V Permit Amendment

- xvii. Any twelve consecutive month period an individual Engine Generator operates for 200 or more hours.
  
- 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)

None required to be reported in accordance with Condition **6.1.4**.

## 6.2 Specific Record Keeping and Reporting Requirements

- 6.2.2 For each shipment of diesel fuel oil received for combustion in Engines CG01 through CG14, the Permittee shall obtain from the supplier a certification that the oil complies with the specifications for diesel fuel oil Nos. 1-D, 2-D, Low Sulfur 1-D or Low Sulfur 2-D as contained in ASTM D975, "Standard Specification for Diesel Fuel Oils." The fuel supplier certification shall contain the following information:  
[391-3-1-.02(6)(b)1 and 40CFR70.6(a)(3)(i)]
- a. The name of the oil company, and
  - b. A statement from the oil supplier that the diesel fuel oil complies with the specifications for diesel fuel oil Nos. 1-D, 2-D, Low Sulfur 1-D or Low Sulfur 2-D as contained in ASTM D975, "Standard Specification for Diesel Fuel Oils."
- 6.2.7 The Permittee shall record and maintain records of the total hours of operation during each calendar month by each engine with ID Nos. CG01 through CG14.  
[391-3-1-.02(6)(b)1 and 40CFR70.6(a)(3)(i)]
- 6.2.11 The Permittee shall submit to the Division a semiannual report by July 30 of the calendar year of record and by January 30 of the year following the calendar year of record unless otherwise approved by the Division. The report shall include the information required to be recorded in accordance with Conditions 6.2.2 and 6.2.3 of this Permit and shall contain:  
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(iii)(B)]
- a. The 12-consecutive month total operating hours for each diesel engine driven generator listed in Table 3.1 for each calendar month in the semiannual reporting period.
  - b. A statement, signed by an official of the company, certifying that all fuel oil burned in the boilers and generators, listed in the Table 3.1, during the reporting period, meets the specifications contained in Conditions **3.2.2** and **3.2.3**.
  - c. The 12-consecutive month total quantities of distillate oil burned in boilers with ID Nos. BL04, BL07 and BL10 for each calendar month in the semiannual reporting period.
  - d. The quarterly pounds of waste charged in each incinerator INC1 and INC2, for each quarter in the semiannual reporting period, indicating quantities of:
    - i. Hospital /Medical/ Infectious Waste as defined by 40CFR60 Subpart Ec.
    - ii. Total waste incinerated.
  - e. The 12-consecutive month total NO<sub>x</sub> emissions from Boilers BL04 and BL07 (combined) for each calendar month in the semiannual reporting period.

## Title V Permit Amendment

- f. The 12-consecutive month total NO<sub>x</sub> emissions from Engines CG03, CG04, CG05 and CG06 (combined) for each calendar month in the semiannual reporting period.
  - g. The 12-consecutive month total NO<sub>x</sub> emissions from Boiler BL10 for each calendar month in the semiannual reporting period.
  - h. The 12-consecutive month total NO<sub>x</sub> emissions from Engines CG10 through CG14 (combined) for each calendar month in the semiannual reporting period.
- 6.2.12 The Permittee shall provide the Division with a statement, in such a form as the Division may prescribe, showing the actual emissions of nitrogen oxides from Boilers BL02, BL03, BL04, BL07, BL08, BL09, BL10, diesel engine driven Generators CG01 through CG14 and Incinerators INC1 and INC2. The Permittee shall submit the emission statements to the Division by March 31 of every year and shall show the actual emissions of the previous calendar year.  
[391-3-1-.02(6)(a)(4)]
- 6.2.15 The Permittee shall use the records required by Condition **5.3.3** to calculate the 12-consecutive month total of NO<sub>x</sub> emissions (combined) from Engines with ID Nos. CG10 through CG14 for each calendar month. The 12-consecutive month total for a calendar month shall be the total NO<sub>x</sub> emissions for the month summed with the totals for the 11 previous calendar months.  
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.17 The Permittee shall maintain records sufficient to demonstrate compliance with Condition **3.2.5**. For each period during the months of May through September, where fuel oil is burned in Boilers BL07 and BL10, said records shall indicate the amount of fuel oil burned, the date and time of each burn, and the reason for each burn. Fuel oil combustion in the above boilers during the months of May through September shall be reported to the Division within 7 business days.  
[391-3-1-.02(6)(b)1]

### NEW CONDITION

- 6.2.18 The Permittee shall include in the semi-annual report required by Condition **6.1.4**, a one-time notification, documenting the exact date when diesel engine driven Generator CG14 started operation (i.e. emitted pollutants) for the first time.  
[391-3-1-.03(8)(c)13.(ii) NSR avoidance]

### NEW CONDITION

- 6.2.19 The Permittee shall use the records required by Condition **5.3.2** to calculate the 12-consecutive month total of NO<sub>x</sub> emissions from Boiler BL10 for each calendar month. The 12-consecutive month total for a calendar month shall be the total NO<sub>x</sub> emissions for the month summed with the totals for the 11 previous calendar months.  
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]