

# Part 70 Operating Permit Amendment

Permit Amendment No.: **9431-089-0005-V-01-1**

Effective Date: March 9, 2005

**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 ARS 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 2250 kW<sub>e</sub> diesel engine driven backup service generators instead of the 2000 kW<sub>e</sub> engines planned for CG10 through CG13.

This Permit Amendment shall also serve as a final amendment to the Part 70 Permit unless objected to by the U.S. EPA or withdrawn by the Division.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-15538 dated August 6, 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 3 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

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**PART 1.0 FACILITY DESCRIPTION**

**1.3 Process Description of Modification**

In 2002, Application 13808 was received by the Division from CDC proposed addition of heating (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. This project was to begin construction in the late summer of 2004 and included the addition of temporary power via rental diesel engine driven generators. After an internal audit that occurred in the spring of 2004, CDC decided to abandon the CHPP. This left a deficit of standby electrical energy power needed for the fall of 2004. CDC provided the Division Application 15538, August 9, 2004, that substituted four 2250 kW<sub>e</sub> generators for the four 2000 kW<sub>e</sub> generators originally permitted under application 13808. This in effect would increase the energy capability of that set of generators by one megawatt. The application provided vendor information for the new proposed diesel engines that would power these new generators. The guaranteed emission factor that was supplied by the manufacturer was larger than the previous engines necessitating changing the factor used in the equations found in Condition **5.2.4** of CDC’s permit. This modification changes Condition **5.2.4** to account for this increase.

## 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 Additional Emission Units

##### MODIFIED TABLE

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
CG10	Diesel engine driven 2,250kW <sub>e</sub> (standby service rating) generator for West Campus loads, used for emergency service, installed 2004, Engine rated at 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) Avoidance NSR Avoidance PSD Avoidance	3.2.2, 3.2.5, 3.3.1, 3.3.2, 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, 6.2.6, 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 for West Campus loads, used for emergency service, installed 2004, Engine rated at 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) Avoidance PSD Avoidance NSR Avoidance	3.2.2, 3.2.5, 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 for West Campus loads, used for emergency service, installed 2004, Engine rated at 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) Avoidance PSD Avoidance NSR Avoidance	3.2.2, 3.2.5, 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 for West Campus loads, used for emergency service, installed 2004, Engine rated at 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) Avoidance PSD Avoidance NSR Avoidance	3.2.2, 3.2.5, 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

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

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

**5.2 Specific Monitoring Requirements**

**MODIFIED CONDITION**

5.2.4 The Permittee shall use the following equation to calculate the mass emission rate 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 measured by the cumulating hour meters required by Condition **5.2.1**.

[391-3-1-.02(6)(b)1, Non-attainment area NSR Avoidance and 40 CFR 70.6(a)(3)(i)]

- a. For Engines CG03, CG04, CG05 and CG06, use the following equation to calculate the NO<sub>x</sub> emissions per hour 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 CG010, CG11, CG12 and CG13, use the following equation to calculate the NO<sub>x</sub> emissions per hour 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).