Florida Department of Environmental Protection

Northeast District
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Charlie Crist
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Michael W. Sole
Secretary

PERMITTEE:

North Florida/South
Georgia Veterans Health System
1601 SW Archer Road
Gainesville, Florida 32608

I.D. Number:	0010041
Permit/Cert Number:	0010041-007-AC
Date of Issue:	May 09, 2008
Expiration Date:	May 09, 2009
County:	Alachua
Latitude/Longitude:	29° 38′ 13″N; 82°20′44″W
UTM:	E- (17) 369.75; N-3279.13
Project:	Air Construction Permit

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210, 62-212, 62-272, 62-296, 62-297 and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

PROJECT

For the installation of four emergency diesel generators.

The generators are to supply power to varying electrical load for the duration of power interruption. The proposed units are considered emergency stationary internal combustion engine as defined by 40 CFR 60.4219.

"*Emergency stationary internal combustion engine* means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines."

The information about the diesel internal combustion engines is described below.

Manufacturer: Cummins	Model: DQKH
Power Rating:	2250 KW or 3251 HP @ 1800 RPM
Total Displacement:	60.2 liters for 16 cylinders
Maximum Fuel Consumption Rate:	150.2 gallons/hour
Maximum Gas Flow:	15705 CFM

PERMITTEE:

North Florida / South Georgia Veterans Health System	I.D. Number: 0010041
Malcom Randall Veterans Affairs Medical Center	Permit/Cert Number: 0010041-007-AC
1601 SW Archer Road	Date of Issue: May 09, 2008
Gainesville, Florida 32608	Expiration Date: May 09, 2009

The proposed emissions units are as defined below:

E.U. ID No.	Brief Description
007	Emergency Stationary Internal Combustion Engine No.1
008	Emergency Stationary Internal Combustion Engine No.2
009	Emergency Stationary Internal Combustion Engine No.3
010	Emergency Stationary Internal Combustion Engine No.4

OPERATING LOCATION

Located at 1601 Southwest Archer Road, Gainesville, Alachua County, Florida.

RULE APPLICABILITY

The units are subject to the following regulations:

- NSPS, Subpart IIII--Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

ATTACHED APPENDICES ARE MADE A PART OF THIS PERMIT

Appendix GC General Conditions
Appendix A General Provision A of NSPS

RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

Application for Air Permit – Long Form received February 13, 2008.
Information received via email February 26, 2008.

PERMITTEE:
North Florida / South Georgia Veterans Health System
Malcom Randall Veterans Affairs Medical Center
1601 SW Archer Road
Gainesville, Florida 32608

I.D. Number: 0010041
Permit/Cert Number: 0010041-007-AC
Date of Issue: May 09, 2008
Expiration Date: May 09, 2009

EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

E.U. ID No.	Brief Description
007	Emergency Stationary Internal Combustion Engine No.1
008	Emergency Stationary Internal Combustion Engine No.2
009	Emergency Stationary Internal Combustion Engine No.3
010	Emergency Stationary Internal Combustion Engine No.4

The following specific conditions apply to the emissions unit(s) listed above:

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. Hours of Operation: The hours of operation are restricted to 500 hours per year for each unit.
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C., and applicant's request]

2. Maximum Operating Rate: The maximum diesel fuel consumption rate is 150.2 gallons/hour for each unit.
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]

EMISSIONS LIMITATIONS AND WORK PRACTICE STANDARDS

3. Emissions Limits: The units are subject to the emissions limit as stated in the table below.

Pollutant	Emissions Limit in g/KW-hr (g/HP-hr)	Rule
HC	1.3 (1.0)	40 CFR 60.4205 (b) and Table 1 to Subpart IIII of NSPS
NOx	9.2 (6.9)	
CO	11.4 (8.5)	
PM	0.54 (0.40)	

4. Operation & Maintainence: Owners and operators shall operate and maintain the units according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.
[40 CFR 60.4206]

5. Fuel Requirements: The owner or operator shall comply with the following fuel requirements.

   a. Beginning October 1, 2007, owners and operators shall use diesel fuel that meets the following per-gallon standards:
      i. Sulfur Content. 500 parts per million (ppm) maximum.
      ii. Cetane index or aromatic content, as follows:

      A minimum cetane index of 40; or
      A maximum aromatic content of 35 volume percent.

b. Beginning October 1, 2010, owners and operators shall use diesel fuel that meets the meets the following per-gallon standards:
   i. Sulfur Content. 15 ppm maximum for Non Road (NR) diesel fuel. 500 ppm maximum for Locomotive and Marine (LM) diesel fuel.
   ii. Cetane index or aromatic content, as follows:

   A minimum cetane index of 40; or
   A maximum aromatic content of 35 volume percentage.

[40 CFR 60.4207 (a) & (b), 40 CFR 80.510 (a) & (b)]

6. Monitoring Requirements: The owner or operator shall comply with the following monitoring requirements.
   a. The owner or operator shall install a non-resettable hour meter prior to startup of the engine.
   b. If the engine is equipped with a diesel particulate filter to comply with the emission standards, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

   [40 CFR 60.4209]

7. Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.
   [40 CFR 60.4211 (f)]

COMPLIANCE DEMONSTRATION AND TESTING REQUIREMENTS

8. The owner or operator shall operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner or operator shall also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to the units.
   [40 CFR 60.4211 (a)]

9. Compliance Certification: The owner or operator shall comply by purchasing an engine certified to the emission standards as described by specific condition No.3. The engine must be installed and configured according to the manufacturer's specifications.
   [40 CFR 60.4211 (c)]

10. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
[Rule 62-297.310(7)(b), F.A.C.]

11. Test Method: The owner or operator shall conduct the performance tests according to procedures as described below if special compliance tests are requested by the Department pursuant to specific condition No.10.

    (a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.

    (b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

    (c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

    $$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \qquad \text{(Eq. 1)}$$

    Where:

    STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

    Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in 40 CFR 60.4213 of this subpart, as appropriate.

[40 CFR 60.4212]

NOTIFICATION, REPORTING AND RECORDKEEPING REQUIREMENTS

12. Compliance Test Notification. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
[Rule 62-297.310(7) (a) 9, F.A.C.]

13. Compliance Report Submittal: Reports of the required compliance tests shall be submitted as soon as practical but no later than 45 days after the last test is completed. Each test report shall include the maximum input / production rate at which this source was operated since the most recent test.
[Rule 62-297.310(8)(b), F.A.C.]

14. Recording Keeping – Hours of Operation: The owner shall record the time of operation of the engine and the reason the engine was in operation during that time.
[40 CFR 60.4214 (b)]

15. Recordkeeping – PM Filter: If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator shall keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.
[40 CFR 60.4214 (c)]

16. Recordkeeping – Fuel: The owner or operator shall keep record of fuel oil analysis for each batch of diesel fuel purchased. The owner or operator shall also keep record of fuel usage.
[Rule 62-4.070 (2), F.A.C.]

ADMINISTRATIVE

17. The I.D. No. and Project name for this source shall be used on all correspondence.

18. Any revision(s) to a permit (and application) must be submitted to the Department, in writing, and approved by the Department prior to implementation.

19. Modifications. No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rule 62-210.300(1), F.A.C.]

20. New or Additional Conditions. For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080(1), F.A.C.]

EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

21. General Conditions. The owner or operator is subject to and shall operate under the General Permit Conditions as described in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes.
[Rule 62-4.160, F.A.C.]

22. All reports, tests, notifications or other submittals required by this permit shall be submitted to the:

Department of Environmental Protection
Northeast District – Air Program
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256
Telephone: 904/807-3300
Fax: 904/448-4366

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Christopher L. Kirts, P. E.
District Air Program Administrator

PERMITTEE:
North Florida / South Georgia Veterans Health System
Malcom Randall Veterans Affairs Medical Center
1601 SW Archer Road
Gainesville, Florida 32608

I.D. Number: 0010041
Permit/Cert Number: 0010041-007-AC
Date of Issue: May 09, 2008
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APPENDIX GC - GENERAL CONDITIONS [RULE 62-4.160]

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under the conditions of the permit;

   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

( ) Determination of Best Available Control Technology (BACT)
( ) Determination of Prevention of Significant Deterioration (PSD)
(x) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

    c. Records of monitoring information shall include:

        - the date, exact place, and time of sampling or measurements;
        - the person responsible for performing the sampling or measurements;
        - the dates analyses were performed;
        - the person responsible for performing the analyses;
        - the analytical techniques or methods used; and
        - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.