Florida Department of Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE

Gainesville Regional Utilities (GRU)
P.O. Box 147117 (A136)
Gainesville, FL 32614

Authorized Representative:

Ms. Melissa Jones, Director of Production

Air Permit No. 0010129-008-AF
Federally Enforceable State Operation Permit

South Energy Center

Alachua County, Florida

PROJECT

This is the final Federally Enforceable State Operation Permit, which authorizes the operation of the South Energy Center, which is categorized under Standard Industrial Classification No. 4911- Electric Services. This project is a permit modification of Permit No. 0010129-005-AF to incorporate the terms and conditions of Permit Nos. 0010129-004-AC and 0010129-007-AC, and Specific Condition No. 11.a. for the auxiliary steam boiler (Emissions Unit 003) to require visible emissions (VE) testing at the first occurrence the boiler is scheduled to fire fuel oil for a sufficient period to allow for a VE test to be conducted. The facility is located in Alachua County at SW 14th Street between SW 13th and SW 14th Avenues in Gainesville, Florida. The UTM coordinates are Zone 17: 170.29 km East; 3279.46 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Facility Wide Conditions), Section 4 (Emissions Unit Specific Conditions); and Section 5 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 5 of this permit.

Upon issuance of this final permit, any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

0010129-008-AF Effective Date:	**July 17, 2017**
Renewal Application Due Date:	**November 23, 2019**
Expiration Date:	**January 22, 2020**

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Julie R. Hudson, Environmental Manager
Permitting Program

CERTIFICATE OF SERVICE
The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Ms. Melissa C. Jones, Director of Production Energy Supply, City of Gainesville, GRU: jonesmc@gru.com
Ms. Regina Embry, Principal Engineer, City of Gainesville, GRU: embryrg@gru.com
Mr. Thomas W. Davis, PE, TD Air Quality Consulting, LLC: tomdair1@gmail.com

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

July 17, 2017

Clerk **Date**

FACILITY DESCRIPTION

The facility consists of a natural gas fired combustion turbine generator (CTG) and a natural gas fired heat recovery steam generator (HRSG), one auxiliary steam boiler, and two emergency diesel-engine driven generators. The facility provides steam and power to the UF Health Shands Cancer Hospital, as well as power to the electrical transmission grid.

Combustion Turbine Generator (CTG) & Heat Recovery Steam Generator (HRSG).

The combustion turbine generator is fired exclusively with natural gas. In simple cycle mode, the CTG (manufacturer: Solar Turbines, Model: Mercury 50) exhaust discharges directly to the atmosphere. In combined cycle mode, the hot exhaust gases from the CTG are routed to a Heat Recovery Steam Generator (Manufacturer: ERI, Model: S3-3216-HRSG) to generate steam. The HRSG includes a natural gas fired duct burner (low NOx burner) for supplemental steam generation by the HRSG. Following the recovery of waste heat by the HRSG, the CTG exhaust gases are discharged to the atmosphere.

The combustion turbine generator has a nominal heat input of approximately 53 MMBtu/hour, Higher Heating Value (HHV) at an ambient air temperature of 32 °F and a power generation capacity of approximately 4,600 kilowatts. The heat recovery steam generator can produce up to 45,000 pounds per hour of steam and includes a natural gas fired duct burner with a nominal heat input of 35.5 MMBtu/hour, HHV.

Auxiliary Steam Boiler

The dual fuel (natural gas and low sulfur distillate fuel oil) fired auxiliary steam boiler (manufacturer: Cleaver Brooks, Model: CBL-LN (4-pass, 5 ft^2/HP)) has a heat input rate of approximately 41 MMBtu/hour, HHV.

Emergency-Generators Diesel Engines

Emergency Generator No. 1 diesel engine (Manufacturer: Caterpillar, Model: 3516 B TA) has a rated power output of 3,286 horsepower (hp), and Emergency Generator No. 3 diesel engine (Manufacturer: Caterpillar, Model: C15 ATAAC) has a rated power output of 762 hp. The emergency generators provide power in the event of outages.

This facility is considered a synthetic Non-Title V source based on a federally enforceable facility-wide emissions limit of 90.0 tons per year of NO_x emissions. The facility is considered an area source of hazardous air pollutants (HAP).

The existing facility consists of the following emissions units.

Facility ID No. 0010129

ID No.	Emission Unit Description
001	Combustion Turbine Generator (CTG) Heat Recovery Steam Generator (HRSG) Unit No.1
003	Auxiliary Steam Boiler
004	Emergency Generator No. 1 Diesel Engine
006	Emergency Generator No. 3 Diesel Engine

APPLICABLE REGULATIONS

The CTG and HRSG Unit No. 1 are subject to 40 CFR 60, NSPS, Subpart KKKK - Standards of Performance for Stationary Combustion Turbines.

The Auxiliary Steam Boiler is subject to 40 CFR 60, NSPS, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The Auxiliary Steam Boiler is also subject to Rule 62-296.406, F.A.C., for Fossil Fuel Steam Generators with Less Than 250 Million Btu Per Hour Heat Input, New and Existing Emissions Units.

The Emergency Generator No. 1 and the Emergency Generator No. 3 diesel engines are each subject to 40 CFR 60, NSPS, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

The diesel engines for these generator sets also meet the applicability of 40 CFR 63, NESHAP, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. However, pursuant to 40 CFR 63.6590(c), the engines must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. No further requirements of Subpart ZZZZ apply for such engines.

FACILITY REGULATORY CLASSIFICATION

- The facility **is not** a major source of hazardous air pollutants (HAP).
- The facility **has no** units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility **is not** a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C. The facility is a synthetic Non-Title V source
- The facility **is not** a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.
- The facility **has** units subject to Standards of Performance for New Stationary Sources
- The facility **has** units subject to National Emission Standards for Hazardous Air Pollutants for Source Categories

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Northeast District Office, Permitting Program, of the Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address is 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District Office, Permitting Program. The Permitting Authority's telephone number is (904) 256-1700.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office, Compliance Assurance at: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. The Compliance Authority's telephone number is (904) 256-1700.

3. Appendices: The following Appendices are attached as part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); Appendix D (Common Testing Requirements), Appendix E (40 CFR 60 Subpart A-General Provisions), Appendix F (40 CFR 60 Subpart Dc- Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units), Appendix G (40 CFR 60 Subpart IIII- Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), Appendix H (40 CFR 60 Subpart KKKK- Standards of Performance for Stationary Combustion Turbines), Appendix I (40 CFR 60 Subpart A-General Provisions), Appendix J (40 CFR 63 Subpart ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), Appendix K (BACT Determination for HRSG), Appendix L (BACT Determinations for Auxiliary Steam Boiler).

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. 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, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification.

   [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Renewal. Prior to 60 days before the expiration date of this permit, the permittee shall apply for a renewal of the permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 60 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department.

   [Rule 62-4.090, F.A.C.]

8. Source Obligation:

   (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

9. Annual Operating Report (AOR). The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's (DEP) District Office. All synthetic non-Title V sources shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C.

   [Rule 62-210.370(3), F.A.C.]

   {Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

1. Facility Wide NOx Emissions Cap: The facility wide NO_x emissions shall not exceed 90 tons per any consecutive 12- month rolling period. Compliance with the NO_x emissions cap shall be demonstrated with all valid NOx emissions data including during periods of startup and shutdown. The Permittee shall maintain a record of the NO_x emissions rate on monthly basis. The latest monthly emissions rate shall be added to the NO_x emissions rate from the previous 11 consecutive months to continuously demonstrate that the facility is meeting the facility wide NO_x emissions cap. All the supporting information and records used to compute the NO_x emissions rate shall also be maintained on site. All the records shall be kept on site for at least 3 years.

   [Rule 62-210.200(225)-PTE, F.A.C., Permit No. 0010129-001-AC]

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
001	Combustion Turbine Generator (CTG) and Heat Recovery Steam Generator (HRSG) Unit No. 1 A combustion turbine manufactured by Solar Turbines (Model Mercury 50). The turbine is rated at a nominal heat input of 53 MMBtu/hr, Higher Heating Value (HHV), is fired by natural gas, and includes a nominal 4,600 kW generator. The turbine is capable of being operated using a HRSG (ERI, Model S3-3216-HRSG) for steam generation. The HRSG includes a natural gas fired duct burner (low-NOx) with a nominal heat input of 35.5 MMBtu/hr, HHV, and is capable of producing up to 45,000 pounds per hour of steam. Exhaust gas exit at approximately 310°F (with HRSG steam generation) with a volumetric flow rate of 45,200 acfm and 710°F (without HRSG steam generation) with a volumetric flow rate of 68,600 acfm through a stack that is approximately 3.4 feet in diameter and 110 feet above ground level.

{Permitting note(s): The CTG and HRSG are subject to 40 CFR 60 Subpart KKKK- Standards of Performance for Stationary Combustion Turbines and the applicable provisions of 40 CFR 60 Subpart A- General Provisions. The HRSG is also subject to Rule 62-296.406, F.A.C. – Fossil Fuel Steam Generators with Less than 250 MMBtu/hour of Heat input and includes a Best Available Control Technology (BACT) Determination dated July 25, 2007 for particulate matter and sulfur dioxide emissions

PERFORMANCE RESTRICTIONS

1. **Restricted Operation:** The hours of operation the CTG and the HRSG are not restricted (8,760 hours per year).

   [Rule 62-210.200(225)-PTE, F.A.C., Rule 62-4.160(2), F.A.C.]

2. **Maximum Heat Input Rate:** The maximum heat input rate for the CTG and the HRSG are as described below.

Emission Unit	Maximum Heat Input Rate (MMBtu/hour, HHV @ 32 °F)	
	Combustion Turbine Generator	Heat Recovery Steam Generator
001	53	35.5

   Permitting Note: The peak load heat input rate of the CTG is 45.1 MMBtu/hour at ISO conditions.

   ISO conditions means 288 Kelvin, 60 percent relative humidity and 101.3 kilopascals pressure

   [Rule 62-4.160(2), F.A.C., Rule 62-210.200(225)-PTE, F.A.C.]

3. **Method of Operation:** The CTG is natural gas fired only and can be operated in simple cycle mode without the HRSG or combined cycle mode with the HRSG. The HRSG duct burners shall fire natural gas only. The HRSG shall not be operated independent of the CTG.

   [Rule 62-4.160(2), F.A.C., Rule 62-210.200(225)-PTE, F.A.C.; Permit 0010129-001-AC]

4. **Combustion Turbine Replacements:** Replacements of the combustion turbines are authorized provided the following requirements are met.

(a) The combustion turbines may be replaced with equivalent "like-kind" overhauled or new combustion turbines. The overhauled or new combustion turbines shall not increase the combustion turbines maximum heat input rate or potential emissions. The replacement overhauled or new combustion turbines shall be designed to achieve the emissions standards specified in this permit.

(b) Within 90 days of replacing a combustion turbine generator, the permittee shall conduct emissions stack tests to demonstrate compliance with the emission standards for NOx, and visible emissions. Performance testing and compliance demonstrations for the replacement combustion turbines shall be conducted in accordance with **Specific Condition Nos. 13 -15., 17, and 18.** The permittee shall comply with the requirements for notification, test methods, test procedures, and reporting required by this permit.

(c) The permittee shall submit an application for an air construction permit prior to replacing a combustion turbine with an overhauled or new combustion turbine if the replacement results in an increase in combustion turbine maximum heat input rate or potential emissions.

[Permit No. 0010129-004-AC]

5. **General Requirements:** The Permittee shall operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing air pollution at all time including during startup, shutdown, and malfunction.

[40 CFR 60.4333(a)]

EMISSION STANDARDS

*Unless otherwise specified, the averaging times for **Specific Condition Nos. 6. - 8.** are based on the specified averaging time of the applicable test method.*

6. **Nitrogen Oxide (NO_x) Emissions Limit- CTG & HRSG:** The CTG and HRSG units shall not cause to be discharged into the atmosphere any gases which contain NO_x in excess of 42 ppmvd @ 15% O_2 **OR** 290 ng/J (2.3 lb/MWh) of useful output.

[40 CFR 60.4305; 40 CFR 60.4320(a); Table 1 of 40 CFR 60 Subpart KKKK]

7. **Sulfur Dioxide (SO_2) Emissions Limit –CTG & HRSG:** The CTG and HRSG units shall not burn any fuel which contains total potential sulfur emissions in excess of 26 ng SO_2/J (0.060 lb SO_2/MMBtu) heat input **OR** shall not cause to be discharged into the atmosphere any gases which contain SO_2 in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output.

[40 CFR 60.4305; 40 CFR 60.4330(a)(1), (a)(2)]

8. **Visible Emissions Limit- HRSG:** Visible emissions shall not exceed 20 percent opacity except for one six-minute period per hour during which opacity shall not exceed 27 percent.

[Rule 62-296.406(1), F.A.C.]

9. **Best Available Control Technology (BACT)- HRSG:** Both particulate matter and sulfur dioxide emissions from the Heat Recovery Steam Generator shall be limited by the firing of natural gas in the duct burners.

[Rules 62-296.406(2),(3), F.A.C.; BACT Determination dated July 25, 2007]

10. **NSPS Subpart KKKK Requirements:** This emissions unit is subject to the applicable requirements of 40 CFR 60, Subpart KKKK, attached in Appendix H of this permit.

[Rule 62-204.800(8)(b)83., F.A.C., 40 CFR 60.4305]

11. **NSPS Subpart A Requirements:** This emissions unit is subject to the applicable requirements of 40 CFR 60 Subpart A- General Provisions, attached in Appendix E of this permit.

[Rule 62-204.800(8)(d), F.A.C.]

TESTING REQUIREMENTS

12. **NO_x Performance Tests – Frequency:** Performance tests for NO_x emissions shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test) in accordance with 40 CFR 60.4400 to demonstrate continuous compliance.

If the NO_x emissions result from the performance test is less than or equal to 75% of the NO_x emissions limit for the combustion turbine, the Permittee may reduce the subsequent performance to once every two years (no more than 26 calendar months following the previous performance test).

If the results of any subsequent performance test exceed 75% of the NO_x emissions limit for the turbine, the Permittee shall resume annual performance tests.

[40 CFR 60.4340(a) and 40 CFR 60.4400(a)]

13. **NO_x Performance Tests Requirements:** To conduct performance tests, for each test run the Permittee may either use the general methodologies stated in 40 CFR 60.4400(a)(1)(i) or (ii).

[40 CFR 60.4400(a)(1)]

14. **NO_x Performance Tests - Sampling Traverse Points Requirements:** Sampling traverse points for NO_x and (if applicable) diluent gas are to be selected following test methods and procedures stated in 40 CFR 60.4400(a)(2) and (3).

[40 CFR 60.4400(a)(2),(3)]

15. **NO_x Performance Tests Requirements:** The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. The Permittee may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. The Permittee shall conduct three separate test runs for each performance test. The minimum time per run is 20 minutes.

(i) The Permittee shall measure the total NO_x emissions after the duct burner rather than directly after the turbine. The duct burner must be in operation during the performance test.

(ii) Compliance with the applicable emission limit in **Specific Condition No. 6.** shall be demonstrated at each tested load level. Compliance is achieved if the three-run arithmetic average NO_x emission rate at each tested level meets the applicable emission limit.

(iii) The ambient temperature must be greater than 0 °F during the performance test.

[40 CFR 60.4400(b),(b)(2), (b)(4), (b)(6)]

16. **Natural Gas Sulfur Content Monitoring:** Monitoring of natural gas sulfur content is not required.

[40 CFR 60.4360, 40 CFR 60.4365]

{Permitting Note: Pursuant to 40 CFR 60.4365, the CTG/HRSG unit is exempt from the NSPS Subpart KKKK requirements to conduct initial and subsequent performance tests for sulfur and to periodically monitor the total sulfur content of natural gas because the CTG and the HRSG combust natural gas from a pipeline with a valid purchase contract, tariff sheet or transportation contract for the natural gas specifying a maximum total sulfur content of 20 grains of sulfur or less per 100 standard cubic feet of gas.}

17. **Visible Emissions Performance Testing- HRSG:** By permit, the Permittee shall conduct a visible emissions test for the Heat Recovery Steam Generator to demonstrate compliance with the emission limit in **Specific Condition No. 8.** once every 5 years, prior to obtaining a renewed operation permit. The test method for visible emissions shall be EPA Method 9 adopted and incorporated by reference at Rule 62-204.800, F.A.C.

The test shall be conducted by an observer certified in accordance with the requirements of Rule 62-297.320, F.A.C. – Standards for Persons Engaged in Visible Emissions Observations.

The Permittee shall measure the opacity of the visible emissions after the duct burner rather than directly after the turbine. The duct burner must be in operation during the performance test.

[Rule 62-297.310(8)(b)1., F.A.C., Permit No. 0010129-001-AC]

18. **Test Methods:** Required tests shall be performed in accordance with the following reference methods.

Method(s)	Description of Method(s) and Comment(s)
ASTM Methods D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377	Methods for Evaluating Fuel Sulfur Content
EPA Method 1	Sample and Velocity Traverses for Stationary Sources
EPA Method 2	Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
EPA Method 3A	Determination of Oxygen and Carbon Dioxide Concentrations from Stationary Sources (Instrumental
EPA Method 4	Determination of Moisture Content in Stack Gases
EPA Method 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
EPA Method 9	Visual Determination of the Opacity of Emissions from Stationary Sources
EPA Method 20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines

The above methods are described in Appendix A of 40 CFR 60 and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rule 62-204.800, F.A.C., Appendix A of 40 CFR 60]

REPORTING REQUIREMENTS

19. **NO_x Performance Test Reports- CTG:** The Permittee shall submit a written report of the results of each performance test conducted in accordance with **Specific Condition Nos. 4. and 12.** before the close of business on the 60th day following the completion of the performance test.

[40 CFR 60.4375(b)]

20. All reports required under 40 CFR 60.7(c) must be postmarked by the 30th day following the end of each 6-month period.

[40 CFR 60.4395]

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
003	Auxiliary Steam Boiler A natural gas fired steam boiler manufactured by Cleaver Brooks (Model CBL-LN). The boiler is rated at a maximum of 41.4 MMBtu/hr, HHV. Low sulfur distillate fuel oil may be fired as a back-up fuel. At permitted capacity, the exhaust gas flow rate is 15,300 ACFM with an exit temperature of 355 °F through a stack that is 2.6 feet in diameter and 110 feet tall.)

{Permitting note(s): This emissions unit is subject to 40 CFR 60 Subpart Dc- Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units and the applicable provisions of 40 CFR 60 Subpart A- General Provisions. The boiler is also subject to Rule 62-296.406, F.A.C. – Fossil Fuel Steam Generators with Less than 250 MMBtu/hour of Heat input and includes Best Available Control Technology (BACT) Determination dated July 25, 2007 and May 31, 2017 for particulate matter and sulfur dioxide emissions.

PERFORMANCE RESTRICTIONS

1. **Restricted Operation:** The hours of operation are not restricted.

[Rule 62-4.160(2), F.A.C., Rule 62-210.200(225)-PTE, F.A.C.]

2. **Maximum Heat Input Rate:** The maximum heat input rate of the auxiliary steam boiler is 41.4 MMBtu/hour, HHV.

[Rule 62-4.160(2), F.A.C., Rule 62-210.200(PTE), F.A.C.]

3. **Method of Operation:** The boiler may combust natural gas continuously. The boiler is allowed to combust low sulfur distillate fuel oil only during periods of gas curtailment, gas supply interruption, startups, or for periodic testing, maintenance, or operator training on liquid fuel. Periodic testing, maintenance, or operator training on liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

[40 CFR 63.11237, 40 CFR 63.11195(e) Rule 62-4.160(2), F.A.C., Rule 62-210.200(225)-PTE, F.A.C., BACT, Permit No. 0010129-001-AC, Permit No. 0010129-007-AC]

{Permitting note: Due to the above constraints on the use of distillate fuel oil, the auxiliary steam boiler meets the 40 CFR 63.11237 definition of a gas-fired boiler. Accordingly, pursuant to 40 CFR 63.11195(e), the auxiliary steam boiler is not subject to 40 CFR 63 Subpart JJJJJJ- National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.}

EMISSION STANDARDS

*Unless otherwise specified, the averaging times for **Specific Condition No. 4.** is based on the specified averaging time of the applicable test method.*

4. **Visible Emissions Limits:** The Permittee shall comply with the following visible emissions limits:

a. **Distillate Fuel Oil – NSPS:** When burning distillate fuel oil, visible emissions shall not exceed 20 percent opacity except for one six-minute period per hour during which opacity shall not exceed 27 percent. The visible emissions standard apply at all times, **except** during periods of startup, shutdown, or malfunction.

[40 CFR 60.43c(c), 40 CFR 60.43c(d)]

b. **Distillate Fuel Oil & Natural Gas – State BACT:** When burning natural gas or distillate fuel oil, visible emissions shall not exceed 20 percent opacity except for one six-minute period per hour during which opacity shall not exceed 27 percent.

[Rule 62-296.406(1), F.A.C.]

5. **Particulate Matter (PM) Emissions Limits:** The Permittee shall comply with the following particulate matter emissions limits:

a. **Distillate Fuel Oil -NSPS:** The auxiliary steam boiler is only authorized to combust fuel oil that contains no more than 0.05 weight percent sulfur. Because the boiler combusts fuel oil that contains less than 0.5 weight percent sulfur, the boiler is not subject a NSPS Subpart Dc PM standard in accordance with 40 CFR 60.43c(e)(4).

[40 CFR 60.43c(e)(4)]

b. **Distillate Fuel Oil – State BACT:** Particulate matter emissions shall be limited by the firing of distillate fuel oil that contains no more than 0.05 weight percent sulfur.

[Rule 62-296.406(2), F.A.C.; BACT Determination dated July 25, 2007, BACT Determination dated May 31, 2017]

c. **Natural Gas – State BACT:** Particulate matter emissions shall be limited by the firing of natural gas as the primary fuel.

[Rule 62-296.406(2), F.A.C.; BACT Determination dated July 25, 2007, BACT Determination dated May 31, 2017]

6. **Sulfur Dioxide Limits:** The Permittee shall comply with the following sulfur dioxide emission limits:

a. **Distillate Fuel Oil – NSPS:** When burning distillate fuel oil, the maximum fuel sulfur content shall not exceed 0.5 weight percent. The fuel oil sulfur limits apply at all times, **including** periods of startup, shutdown, and malfunction.

[40 CFR 60.42c(d), 40 CFR 60.42c(i)]

{Permitting Note: The South Energy Center elected to comply with a fuel oil sulfur content limit of 0.5 weight percent sulfur as an optional alternative to the NSPS Subpart Dc SO_2 standard of 0.05 lb/MMBtu heat input.}

b. **Distillate Fuel Oil – State BACT:** The maximum sulfur content of distillate fuel oil shall not exceed 0.05 weight percent.

[Rule 62-296.406(2), F.A.C.; BACT Determination dated July 25, 2007, BACT Determination dated May 31, 2017]

{Permitting Note: The State BACT limit is more stringent than the NSPS Subpart Dc standard}

c. **Natural Gas – State BACT:** Sulfur dioxide emissions shall be limited by the firing of natural gas as the primary fuel.

[Permit No. 0010129-001-AC; Rule 62-296.406(2), F.A.C.; BACT Determination dated July 25, 2007, BACT Determination dated May 31, 2017]

7. **Fuel Oil Certification:** Compliance with the fuel oil sulfur limit shall be determined based on a certification from the fuel supplier. The Permittee shall follow the procedures in **Specific Condition No. 10.**

[40 CFR 60.42c(h)(1), 40 CFR 60.45c(d)]

8. **NSPS Subpart Dc Requirements:** This emissions unit is subject to the applicable requirements of 40 CFR 60, Subpart Dc, attached in Appendix F of this permit.

[Rule 62-204.800(8)(b)4., F.A.C., 40 CFR 60.40c(a)]

9. **NSPS Subpart A Requirements:** This emissions unit is subject to the applicable requirements of 40 CFR 60 Subpart A- General Provisions, attached in Appendix E of this permit.

[Rule 62-204.800(8)(d), F.A.C.]

TESTING REQUIREMENTS

10. **SO_2 Performance Test:** To demonstrate compliance with the SO_2 standards in **Specific Condition Nos. 6.a. and 6.b,** the performance test shall consist of the certification from the fuel supplier.

Fuel supplier certification shall include the following information for distillate oil:

(i) The name of the oil supplier;

(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and

(iii) The sulfur content or maximum sulfur content of the oil.

[40 CFR 60.44c(h), 40 CFR 60.48c(f)(1) and (f)(4), Permit No. 0010129-001-AC]

11. **Visible Emissions Performance Test**:

a. **Distillate Fuel Oil:** The Permittee shall conduct initial and periodic visible emissions performance tests for the auxiliary steam boiler while combusting low sulfur distillate fuel oil to demonstrate compliance with the emission limit in **Specific Condition No. 4.a.** The performance test shall be conducted in accordance with the applicable test method stated in **Specific Condition No. 13.**

The initial performance test shall be conducted at the first occurrence that the auxiliary steam boiler is scheduled to combust low sulfur distillate fuel oil for a sufficient duration to allow a visible emissions performance test to be performed. The initial performance test shall be conducted in accordance with the procedures of 40 CFR 60.11. The observation period for the initial performance test may be reduced from the 3 hours required by 40 CFR 60.11 to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.

Following the initial performance test, subsequent periodic performance tests shall be conducted in accordance with the requirements of either 40 CFR 60.47c(a)(1), (a)(2), or (a)(3) at the first occurrence that the auxiliary steam boiler is scheduled to combust backup distillate fuel oil for a sufficient duration to allow a periodic visible emission performance test to be performed.

Notification of the visible emissions performance tests shall be provided to the Compliance Authority at least 30 days prior to the test. If circumstances do not allow for such notice, notification shall be provided at least 7 days prior to the test, or by arranging a test date with the Compliance Authority by mutual agreement.

[40 CFR 60.8(d), 40 CFR 60.45c(a), 40 CFR 60.47c(a), Applicant Request dated May 17, 2017]

{Permitting Note: The auxiliary steam boiler generally operates in hot standby mode firing natural gas and is seldom fired with low sulfur distillate fuel oil. Visible emissions tests are required to be conducted at the first occurrence that the auxiliary steam boiler is scheduled to combust low sulfur distillate fuel oil for a sufficient period to allow a visible emissions test to be conducted.}

b. **Natural Gas:** By permit, the Permittee shall conduct a visible emissions test for the auxiliary steam boiler while combusting natural gas to demonstrate compliance with the emission limit in **Specific Condition No. 4.b.** once every 5 years, prior to obtaining a renewed operation permit.

[Rule 62-297.310(8)(b)1., F.A.C.]

12. **NOx Emissions Performance Test- NOx Emissions Cap Demonstration:** NO_x performance tests shall be performed at least once every two years. NO_x performance tests shall be conducted in accordance with the applicable test method stated in **Specific Condition No. 13.**

The results of the NOx performance test shall be used to estimate the annual NOx emissions generated from the auxiliary steam boiler in order to demonstrate that the facility is meeting its facility-wide NO_x emissions cap of 90 tons per any consecutive 12-month rolling period (see **FW Condition No. 1**).

[Permit No. 0010129-001-AC; Applicant Request received May 26, 2011]

13. **Test Methods:** Required tests shall be performed in accordance with the following reference methods.

Method(s)	Description of Method(s) and Comment(s)
Fuel Supplier Certification	Method for Evaluating Distillate Fuel Oil Sulfur Content
EPA Method 1	Sample and Velocity Traverses for Stationary Sources
EPA Method 2	Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
EPA Method 3A	Determination of Oxygen and Carbon Dioxide Concentrations from Stationary Sources (Instrumental
EPA Method 4	Determination of Moisture Content in Stack Gases
EPA Method 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
EPA Method 9	Visual Determination of the Opacity of Emissions from Stationary Sources
EPA Method 19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission

The above methods are described in Appendix A of 40 CFR 60 and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rule 62-204.800, F.A.C., Appendix A of 40 CFR 60, Applicant Request received May 26, 2011]

REPORTING AND RECORDKEEPING REQUIREMENTS

14. **Visible Emissions Recordkeeping- NSPS.** For the opacity limit in **Specific Condition No. 4.a.**., the Permittee shall maintain records according to the requirements specified in paragraphs (1) through (3) of 40 CFR 60.48c(c), as applicable to the visible emissions monitoring method used.

[40 CFR 60.48c(c)]

15. **Fuels Recordkeeping:** The Permittee shall record and maintain records of the amount of each fuel combusted during each calendar month.

The Permittee shall also record and maintain records of the hours of operation of distillate fuel oil combustion.

[40 CFR 60.48c(g)(2), Permit No. 0010129-001-AC]

16. **Reporting- NSPS:** The Permittee shall keep records and submit reports to the Compliance Authority of the following information. The reporting period for the reports is each six-month period. All reports shall be postmarked by the 30th day following the end of each reporting period.

(1) Calendar dates covered in the reporting period

(2) Fuel supplier certification records as described in **Specific Condition No. 10.** The report shall include a certified statement signed by the Permittee of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

(3) Excess emission reports for any excess emissions from the auxiliary steam boiler that occur during the reporting period in addition to the applicable requirements in 40 CFR 60.7.

(4) Initial and any subsequent visible emissions performance test data conducted to demonstrate compliance with the opacity limit in **Specific Condition No. 4.a.**

[40 CFR 60.48c(b), 40 CFR 60.48c(c), 40 CFR 60.48c(d), 40 CFR 60.48c(e)(1), (e)(11), 40 CFR 60.48c(j)]

Subsection C. Emergency Generator Nos. 1 and 3

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
004	Emergency Generator No. 1 Diesel Engine (Caterpillar Model 3516 B TA) is a four-stroke, 16-cylinder, compression ignition diesel engine. The engine is rated at 3,286 horsepower (equivalent to 2,450 kW) of mechanical output power at 100 percent load. The engine is fired with ultra-low sulfur diesel (≤15 ppm by weight sulfur). Exhaust gas will exit at approximately 920˚F with a volumetric flow rate of 17,500 acfm through a stack that is approximately 2.7 feet in diameter and 110 feet above ground level.
006	Emergency Generator No. 3 Diesel Engine (Caterpillar Model C15 ATAAC) is a four-stroke, 6-cylinder, compression ignition diesel engine. The engine is rated at 762 horsepower (equivalent to 568 kW) of mechanical output power at 100 percent load. The engine is fired with ultra-low sulfur diesel (≤15 ppm by weight sulfur). Exhaust gas will exit at approximately 940˚F with a volumetric flow rate of 3,800 acfm through a stack that is approximately 1.3 feet in diameter and 110 feet above ground level.

{Permitting note(s): Each emissions unit is subject to 40 CFR 60 Subpart IIII- Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and the applicable provisions of 40 CFR 60 Subpart A- General Provisions. Each emissions unit is also subject to 40 CFR 63, NESHAP, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.}

PERFORMANCE RESTRICTIONS

1. **Restricted Operation:** The hours of operation for each diesel engine are restricted to 400 hours per year.

   [Rules 62-4.160(2), 62-210.200(225)-PTE, F.A.C., Permit No. 0010129-001-AC]

2. **Maximum Engine Power Rates and Rated Engine Speed:** The maximum diesel engine power rate and rated speed for each engine are as defined in the table below.

Emissions Unit	Maximum Engine Power (HP)	Rated Speed (rpm)
EU 004	3,286	1,800
EU 006	762	1,800

   HP = horsepower
   rpm= revolutions per minute

   [Rules 62-4.160(2), 62-210.200(225)-PTE, F.A.C., Permit No. 0010129-001-AC]

3. **Method of Operation- Fuels:** Each diesel engine shall only combust ultra-low sulfur diesel (ULSD) fuel oil. The diesel fuel shall meet the following per-gallon standards for nonroad (NR) diesel fuel.

   (a) Sulfur content of 15 ppm maximum for NR diesel fuel.

   (b) Cetane index or aromatic content, as follows:

   (i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

[Permit No. 0010129-001-AC, 40 CFR 80.510(b), 40 CFR 60.4207(b), Rule 62-204.800(8)(b)81., F.A.C.]

EMISSION STANDARDS

4. **Emissions Limiting Standards:** The diesel engines are subject to the emissions limiting standards as shown in the table below.

Emissions Unit	Emissions Standards in g/kW-hr (g/HP-hr)				
	NMHC + NOx	HC	NOx	CO	PM
004	N/A	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
006	6.4	N/A	N/A	3.5	0.20

[EU 004: 40 CFR 60.4205(b), 40 CFR 60.4202(b)(1), Table 1 of 40 CFR 60 Subpart IIII, EU 006: 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2), Table 1 of 40 CFR 89.112]

5. The Permittee shall operate and maintain each engine to achieve the emission standards in **Specific Condition No. 4.** over the entire life of the engine.

[40 CFR 60.4206]

*{Permitting Note: Each diesel engine is certified by the engine manufacturer to comply with the 40 CFR 60 Subpart IIII emission standards in **Specific Condition No. 4.** In accordance with the provisions of NSPS Subpart IIII, periodic stack testing of the diesel engines is not required unless the Permittee meets the requirements of 40 CFR 60.4211(g)(3) stated in **Specific Condition No. 13.**}*

6. **NESHAP, 40 CFR 63 Subpart ZZZZ Applicability:** These diesel engines are classified as new stationary Reciprocating Internal Combustion Engines (RICE) located at an area source of HAP. In accordance with 40 CFR 63.6590(c)(1), these engines must meet the requirements of 40 CFR 63 Subpart ZZZZ by complying with the 40 CFR 60 Subpart IIII standards. No further 40 CFR 63 Subpart ZZZZ standards shall apply to these engines.

[40 CFR 63.6675(def); 40 CFR 63.6585(a) & (c); 40 CFR 63.6590(a)(2)(iii); 40 CFR 63.6590(c)(1), Rule 62-204.800(11)(b)82., F.A.C.]

7. **40 CFR 63, Subpart A-General Provision:** Pursuant to 40 CFR 63.6665, because the engines are considered to be new stationary RICE located at an area source of HAP emissions, compliance with the requirements of 40 CFR 63, Subpart A-General Provision as specified in Table 8 to 40 CFR 63 Subpart ZZZZ is not required. *Refer to Appendix J.*

[40 CFR 63.6665, Rule 62-204.800(11)(b)82., F.A.C.]

8. **NSPS, 40 CFR 60, Subpart IIIII Applicability:** Each engine is classified as an emergency stationary internal compression ignition (CI) engine and is subject to the standards of 40 CFR 60 Subpart IIII.

[40 CFR 60.4200(a)(2)(ii); Rule 62-204.800(8)(b)81., F.A.C.]

9. **<u>40 CFR 60, Subpart A-General Provision:</u>** Each engine shall comply with the applicable requirements of 40 CFR 60 Subpart A - General Provisions in 40 CFR 60.1 through 60.19 stated in Table 8 of 40 CFR 60 Subpart IIII. 40 CFR 60, Subpart A- General Provisions. *Refer to Appendix I.*

[40 CFR 60.4218; Table 8 to 40 CFR 60 Subpart IIII, Rule 62-204.800(8)(b)81., F.A.C.]

MONITORING REQUIREMENTS

10. Except as permitted in **Specific Condition No. 13**., the Permittee shall operate and maintain the diesel engines and control devices according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. In addition, the Permittee may only change those settings that are permitted by the manufacturer. The Permittee 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), Rule 62-204.800(8)(b)81., F.A.C.]

11. **<u>Compliance Demonstration</u>:** The Permittee shall comply by purchasing engines certified to the emission standards in 40 CFR 60.4205(b) (**Specific Condition No. 4.)** as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **Specific Condition 13**.

[40 CFR 60.4211(c), Rule 62-204.800(8)(b)81., F.A.C.]

12. Each emergency stationary ICE shall be operated according to the requirements in paragraphs (1) through (3) of this Specific Condition. In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart IIII, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (1) through (3) of this Specific Condition, is prohibited. If you do not operate the engine according to the requirements in paragraphs (1) through (3) of this Specific Condition, the engine will not be considered an emergency engine under 40 CFR 60 Subpart IIII and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (2)(i) through (iii) of this Specific Condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (3) of this Specific Condition counts as part of the 100 hours per calendar year allowed by this paragraph (2).

(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

(ii) N/A – Engine is not part of an emergency demand response program.

(iii) N/A – Engine is not operated in response to voltage deviation.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance. Except as provided in paragraph (3)(i) of this Specific Condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) N/A – engine is not used to supply power as part of a financial arrangement with another entity

(ii) [Reserved]

[40 CFR 60.4211(f), Rule 62-204.800(8)(b)81., F.A.C.]

13. If the Permittee does not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. The Permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(3), Rule 62-204.800(8)(b)81., F.A.C.]

14. **Non-Resettable Hour Meter Installation:** The Permittee shall install a non-resettable hour meter prior to the startup of each engine.

[40 CFR 60.4209(a), Rule 62-204.800(8)(b)81., F.A.C.]

TESTING REQUIREMENTS

15. **NOx Emissions Performance Test- NOx Emissions Cap Demonstration:** Pursuant to Rule 62-297.310(8), F.A.C., and to provide reasonable assurance that the facility is meeting its facility-wide NO_x emissions cap of 90 tons per any consecutive 12-month rolling period (see **FW Condition No. 1**), the Permittee shall conduct NO_x performance tests for the units upon Department's request.

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16. Permittees who conduct performance tests pursuant to 40 CFR 60 Subpart IIII must do so according to paragraphs (a) and (b) of this Specific Condition:

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder.

(b) 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 Subpart IIII, as appropriate.

{Permitting Note: Performance Testing is required by this permit condition only pursuant to 40 CFR 60.4211(g)(3 – refer to Specific Condition No. 13.}.

[40 CR 60.4211(g)(3); 40 CFR 60.4212(a), (c)]

RECORDKEEPING REQUIREMENTS

17. **Recordkeeping:** The Permittee shall maintain the following records:

(1) The fuel usage for 12-consecutive month for each unit.

(2) The time of operation of the units and the reason the engine was in operation during that time. The Permittee shall keep records of the operation of the engine that are recorded through the non-resettable hour meter.

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