

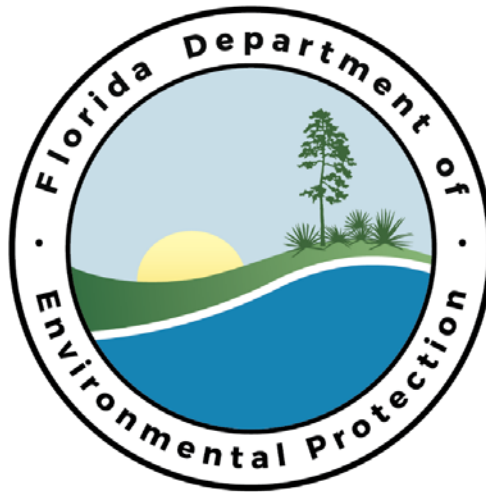
# Lakeland Electric Charles Larsen Memorial Power Plant

Facility ID No. 1050003  
Polk County

## Title V Air Operation Permit Renewal

**Permit No. 1050003-019-AV**

(Renewal of Title V Air Operation Permit No. 1050003-017-AV)



### **Permitting Authority:**

State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
Office of Permitting and Compliance  
2600 Blair Stone Road  
Mail Station #5505  
Tallahassee, Florida 32399-2400  
Telephone: (850) 717-9000  
Email: [DARM\\_Permitting@dep.state.fl.us](mailto:DARM_Permitting@dep.state.fl.us)

### **Compliance Authority:**

DEP Southwest District  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926  
Telephone: (813) 470-5700  
[SWD\\_Air@dep.state.fl.us](mailto:SWD_Air@dep.state.fl.us)

## Title V Air Operation Permit Renewal

Permit No. 1050003-019-AV

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# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

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Governor

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Lt. Governor

Noah Valenstein  
Secretary

## **PERMITTEE:**

Charles Larsen Memorial Power Plant  
2002 Highway 92 East  
Lakeland, Florida 33801-2444

Permit No. 1050003-019-AV  
Charles Larsen Memorial Power Plant  
Facility ID No. 1050003  
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The existing Charles Larsen Memorial Power Plant is located in Polk County at 2002 Highway 92 East, Lakeland. UTM Coordinates are: Zone 17, 408.9 km East and 3102.5 km North. Latitude is: 28° 02' 56" North; and, Longitude is: 81° 55' 25" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Executed in Tallahassee, Florida.

Effective Date: October 13, 2017

Renewal Application Due Date: March 2, 2022

Expiration Date: October 13, 2022

*For:*

Syed Arif, P.E., Program Administrator  
Office of Permitting and Compliance  
Division of Air Resource Management

SA/dlr/srl

## SECTION I. FACILITY INFORMATION.

### **Subsection A. Facility Description.**

Charles Larsen Memorial Power Plant is an electric power plant consisting of one primary electrical generating unit, two secondary electrical generating units, two black start engines and one emergency engine. Combustion Turbine (CT) No. 8 is the primary electrical generating unit with a nominal generating capacity of 120 megawatts (MW). This unit can operate in simple cycle or combined cycle mode using an unfired heat recovery steam generator (HRSG). During times of high electrical demand, this unit may also operate in a peaking mode for a limited time. To reduce emissions of nitrogen oxides (NO<sub>x</sub>), CT No. 8 is equipped with low-NO<sub>x</sub> burners and water injection. A continuous emissions monitoring system (CEMS) is used to continuously monitor NO<sub>x</sub> emissions. CT Nos. 2 and 3 are the secondary electrical generating units with a nominal generating capacity of 11.5 MW per turbine (23 MW total). These CTs operate in simple-cycle peaking and intermittent-duty modes during periods of high electrical demand. Emissions are uncontrolled and unmonitored. All three CTS are capable of firing natural gas and distillate oil.

The Startup Diesel Engines for CT Nos. 2 and 3 are diesel-fired, black start, compression ignition (CI) engines rated at 430 horsepower (hp). These engines are used to startup CT Nos. 2 and 3. The Emergency Engine for Site Lighting is a propane-fired, spark ignition (SI) engine rated at 94.5 hp. This engine provides power for emergency lighting at the facility.

### **Subsection B. Summary of Emissions Units.**

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
005	CT No. 3
006	CT No. 2
008	Larsen Unit No. 8
014	Startup Diesel Engine for CT No. 2
015	Startup Diesel Engine for CT No. 3
016	Emergency Engine for Site Lighting

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

### **Subsection C. Applicable Regulations.**

Based on the Title V air operation permit renewal application received May 9, 2017, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, NSPS General Provisions	008
40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines	008
40 CFR 63, Subpart A, General Provisions	014, 015, 016
40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)	014, 015, 016

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**SECTION I. FACILITY INFORMATION.**

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<b>Regulation</b>	<b>EU No(s).</b>
40 CFR 75, Acid Rain Monitoring Provisions	008
<i>State Rule Citations</i>	
Rule 62-4, F.A.C., Permits	005, 006, 008, 014, 015, 016
Rule 62-204.800, F.A.C., Federal Regulations Adopted by Reference	008, 014, 015, 016
Rule 62-210.300, F.A.C., Permits Required	005, 006, 008, 014, 015, 016
Rule 62-210.700, F.A.C., Excess Emissions	005, 006, 008
Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD)	008
Chapter 62-213, F.A.C., Operation Permits for Major Sources of Air Pollution	005, 006, 008
Chapter 62-214, F.A.C., Requirements for Sources Subject to the Federal Acid Rain Program	008
Rule 62-296.320, F.A.C., General Pollutant Emissions Limiting Standards	005, 006, 008, 014, 015, 016
Rule 62-297.310, F.A.C., General Emissions Test Requirements	005, 006, 008

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## SECTION II. FACILITY-WIDE CONDITIONS.

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**The following conditions apply facility-wide to all emission units and activities:**

**FW1. Appendices.** The permittee shall comply with all documents identified in Section V, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

### **Emissions and Controls**

**FW2. Not federally Enforceable. Objectionable Odor Prohibited.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An “objectionable odor” means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

**FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

*{Permitting Note: Nothing is deemed necessary and ordered at this time.}*

**FW4. General Visible Emissions.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

**FW5. Unconfined Particulate Matter.** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- a. Maintenance of paved areas.
- b. Regular mowing of grass and care of vegetation.
- c. Limiting access to plant property by unnecessary vehicles.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in Title V air operation permit renewal application received May 9, 2017.]

### **Reports and Fees**

See Appendix RR, Facility-wide Reporting Requirements, for additional details and requirements.

**FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees.** The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (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 Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP’s Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source’s most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee

## SECTION II. FACILITY-WIDE CONDITIONS.

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that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1<sup>st</sup> of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site:

<http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

*{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](mailto:eaor@dep.state.fl.us).}*

*{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.}*

**FW7. Annual Statement of Compliance.** The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and to the U.S. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4  
Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303  
Attn: Air Enforcement Branch

**FW8. Prevention of Accidental Releases (Section 112(r) of CAA).** If, and when, the facility becomes subject to 112(r), the permittee shall:

- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: <https://cdx.epa.gov>. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: <http://www2.epa.gov/rmp>. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

**FW9. Semi-Annual Monitoring Reports.** The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports of any deviations from the requirements of these conditions at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. All reports shall be accompanied by a certification by a responsible official, pursuant to subsection 62-213.420(4), F.A.C. (See also Conditions RR2. – RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to deviations.) [Rule 62-213.440(1)(b)3.a., F.A.C.]

*{Permitting Note: EPA has clarified that, pursuant to 40 CFR 70.6(a)(3), the word "monitoring" is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}*

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. Emissions Unit Nos. 005 and 006

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
005	CT No. 3
006	CT No. 2

These emissions units are CTs, each rated at a nominal 11.5 MW. These units can operate in simple cycle and intermittent duty modes. Each unit can fire natural gas and distillate oil. Emissions from these units are neither monitored nor controlled. These units began commercial operation in 1962.

The design heat input rate for each unit is 209 million Btu/hour (MMBtu/hr) while firing natural gas or distillate oil, based on an inlet temperature of 20 degrees Fahrenheit (20°F) while firing natural gas and 25°F while firing distillate oil. Each CT has its own stack measuring 31 feet (ft) in height and 11.8 ft in diameter. Exhaust gas exits the stack at 800°F with a flow rate of 662,400 actual cubic feet per minute (acfm).

*{Permitting Note: These emissions units are regulated under Rule 62-210.300, F.A.C. These emissions units are not regulated under: 40 CFR 60, Subpart A, General Provisions, and Subpart GG, Standards of Performance for Stationary Gas Turbines, adopted by reference in Rule 62-204.800(8)(b)41, F.A.C., because the most recent construction, reconstruction, or modification took place before 1977. These emissions units are not subject to any emissions limiting standards, with the exception of the General Visible Emissions (VE) Standard in Rule 62-296.320(4)(b)1, F.A.C. Since these units have no emissions limiting standards and add-on control devices, a Compliance Assurance Monitoring (CAM) plan is not required.}*

#### **Essential Potential to Emit (PTE) Parameters**

**A.1. Permitted Capacity.** The maximum allowable heat input rate is as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
005	209	Natural Gas
005	209	No. 2 Distillate Fuel Oil
006	209	Natural Gas
006	209	No. 2 Distillate Fuel Oil

*{Permitting Note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rated capacity that the unit was tested. Rule 62-297.310(6), F.A.C., requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various methods including but not limited to fuel flow metering or tank drop measurements, using the heat value of the fuel determined by the fuel vendor or the owner or operator, to calculate average hourly heat input during the test.} [Rules 62-4.160(2) & 62-210.200(PTE)]*

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

**A.3. Methods of Operation, Fuels.** The fuels that are allowed to be burned in these units are:

- Natural gas,
- New No. 2 fuel oil.

*{Permitting Note: Application No. 1050003-019-AV indicates a maximum fuel oil sulfur content of 0.5%, by weight.} [Rule 62-213.410, F.A.C.; and Applicant's request in Title V permit renewal application received May 09, 2017]*



### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. Emissions Unit Nos. 005 and 006

**A.4. Hours of Operation.** These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

#### **Emission Limitations and Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging time for Specific Condition **A.5** is based on the specified averaging time of the applicable test method.

**A.5. Visible Emissions.** VE shall not exceed 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.]

**A.6. Not Federally Enforceable. Fuel Sulfur Limits.** The maximum sulfur content of the distillate oil fired by these emissions units shall not exceed 0.5 percent by weight. [Rule 62-4.070(3), F.A.C.]

*{Permitting Note: This fuel sulfur limit was imposed by Permit No. AO53-238714.}*

#### **Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

**A.7. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

**A.8. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C.]

#### **Test Methods and Procedures**

*{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

**A.9. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, 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.]

**A.10. VE – Annual Testing.** For any emissions unit that fires distillate oil for 400 hours or more, other than during startup, during the calendar year, the permittee shall conduct a VE test while firing distillate oil no later than 60 days after the unit's burning of distillate oil exceeds 400 hours, or by the end of the calendar year, whichever is later. [Rule 62-297.310(8)(a)5.f.]

**A.11. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection A. Emissions Unit Nos. 005 and 006

**A.12. Annual Compliance Tests Required.** During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for VE. [Rule 62-297.310(8)(a), F.A.C.]

**A.13. Compliance Tests Prior To Renewal.** Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.b.(3)** in Appendix TR – Facility-wide Testing Requirements), in addition to the annual compliance tests specified above, compliance tests shall also be performed for VE prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in Specific Conditions **A.5.** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C.]

*{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}*

#### **Recordkeeping and Reporting Requirements**

**A.14. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Emissions Unit 008

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
008	Larsen Unit No. 8

This emission unit is a General Electric (GE) Model PG 7111 Frame 7EA combined or simple cycle CT with an unfired HRSG attached to an existing steam turbine-generator rated at a nominal 120 MW. In addition to simple and combined cycle operation, this unit can operate in base mode and peaking mode during periods of high electrical demand. This unit fires natural gas as a primary fuel and distillate oil as a limited auxiliary fuel. NO<sub>x</sub> emissions are controlled by low-NO<sub>x</sub> burners and a water injection system. A CEMS (pursuant to 40 CFR 75) is used to continuously monitor and record NO<sub>x</sub> emissions for determining compliance with NO<sub>x</sub> standards. This unit also has an inlet fogger system to boost flow output and a duct module suitable for future installation of selective catalytic reduction equipment. The exhaust of this unit passes through the HRSG during combined cycle operation or through a bypass stack during simple cycle operation. This unit began commercial operation in July 7, 1992.

The design heat input rating of this unit during base mode operation is 1,075 MMBtu/hr while firing natural gas and 1,060.0 MMBtu while firing distillate oil. The design heat input rating of this unit during peaking mode operation is 1,161 MMBtu/hr while firing natural gas and 1,149.0 MMBtu/hr while firing distillate oil. All heat input ratings are based on an inlet temperature of 25°F and the lower heating value (LHV) of the fuel (950 MMBtu/million cubic ft for natural gas and 136 MMBtu/million gallons burned for distillate oil).

Exhaust gas exits the HRSG stack measuring 155 ft in height and 16 ft in diameter with a flow rate of 1,034,053 acfm and a temperature of 481°F when operating in combined cycle mode. Exhaust gas exits the rectangular bypass stack measuring 100 ft in height, 18.3 ft in length and 13.3 ft in width (17.6 ft equivalent diameter) with a flow rate of 1,549,432 acfm and a temperature of 950°F while operating in simple cycle mode.

*{Permitting Note: This emissions unit is regulated under 40 CFR 60, Subpart A, General Provisions, and Subpart GG, Standards of Performance for Stationary Gas Turbines, adopted by reference in Rule 62-204.800(8)(b)41, F.A.C.; 40 CFR 75 and Chapter 62-214, F.A.C., the Phase II Acid Rain Program as specified in Section IV of this Permit; Rule 62-212.400, F.A.C., which established limits for NO<sub>x</sub>, sulfur dioxide (SO<sub>2</sub>), particulate matter (PM), particulate matter 10 microns in diameter or less (PM<sub>10</sub>), VOC, carbon monoxide (CO) and VE. Since compliance with NO<sub>x</sub> emissions standards is demonstrated with a CEMS, a CAM plan is not required.}*

#### **Essential Potential to Emit (PTE) Parameters**

**B.1. Permitted Capacity.** Based on the lower heating value of the fuel being fired, the maximum allowable heat input rate, at an inlet temperature of 25°F, is as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
008, Base Load	1,075	Natural gas
008, Base Load	1,060	No. 2 distillate oil
008, Peaking	1,161	Natural gas
008, Peaking	1,149	No. 2 distillate oil

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), 62-214.330, F.A.C.; and, Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 1]

#### **B.2. Methods of Operation.**

- a. **Fuels.** The fuels that are allowed to be burned in this unit are:
  - (1) Natural gas with a maximum sulfur content of 2 grains per 100 standard cubic feet (2 gr/100 scf) as a primary fuel.
  - (2) No. 2 distillate oil with a sulfur content that shall not exceed 0.20 percent by weight as a secondary fuel.

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## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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### Subsection B. Emissions Unit 008

- (3) Maximum annual firing using No. 2 fuel oil shall not exceed 1/3 of the annual capacity factor.
- (4) Maximum No. 2 fuel oil consumption shall not exceed either 8,190 gallons per hour or 23,914,800 gallons per year.

b. Evaporative Cooling System. The inlet fogger system may be operated at any time that this unit is in operation.

[Rule 62-213.410, F.A.C.; Applicant's request in Title V permit renewal application received May 09, 2017; and, Permit No(s). AC 53-190437/PSD-FL-166 Specific Condition 6, 1050003-007-AC/PSD-FL-166C, Specific Condition 3, & 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.3.** Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE); and Permit No. AC 53-190437/PSD-FL-166, Specific Condition 4]

**B.4.** Hours of Operation – Peaking Mode. During any consecutive 12 months, Unit No. 8 shall operate in peaking mode no more than 3000 hours, of which a maximum of 500 hours can be while firing No. 2 distillate fuel oil. [Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 4]

**B.5.** Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

### Control Technology

**B.6.** Water Injection. Water injection shall be utilized for NO<sub>x</sub> control. [Permit No. AC 53-190437/PSD-FL-166, Specific Condition 15]

**B.7.** Low NO<sub>x</sub> Burners. Low NO<sub>x</sub> burners shall be used for NO<sub>x</sub> control with the firing of natural gas. [Rule 62-212.400(BACT), F.A.C.; and Permit No. AC 53-190437/PSD-FL-166]

**B.8.** Circumvention. The owner or operator shall not circumvent or operate the air pollution control equipment in such a manner which would violate allowable emission rates established for these units. [Rule 62-210.650, F.A.C.]

### Emission Limitations and Standards

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging times for Specific Conditions **B.9-B.14** are based on the specified averaging time of the applicable test method.

**B.9.** SO<sub>2</sub> Emissions. The SO<sub>2</sub> emissions shall not exceed the following emissions limits:

- a. Base Mode.
  - (1) 3.5 pounds per hour (lbs/hr) while firing natural gas.
  - (2) 215 lbs/hr while firing distillate oil.
- b. Peaking Mode.
  - (1) 3.5 lbs/hr while firing natural gas.
  - (2) 234 lbs/hr while firing distillate oil.
- c. Fuel sulfur specifications. The sulfur content of each fuel shall not exceed:
  - (1) 2 gr/100 scf for natural gas and;
  - (2) 0.20%, by weight for distillate oil.
- d. Total Emissions (Base and Peaking Modes).
  - (1) 12.9 tons per year (TPY) while firing natural gas.
  - (2) 316 TPY while firing distillate oil.

[Rule 62-212.400, F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.10.** NO<sub>x</sub> Emissions. The NO<sub>x</sub> emissions shall not exceed the following emissions limits:

- a. Base Mode.

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. Emissions Unit 008

- (1) *Natural gas.*
    - (a) 25 parts per million by volume on a dry basis (ppmvd) at 15% oxygen.
    - (b) 107 lbs/hr
  - (2) *Distillate oil.*
    - (a) 42 ppmvd at 15% oxygen.
    - (b) 180 lbs/hr
  - b. *Peaking Mode.*
    - (1) *Natural gas.*
      - (a) 25 ppmvd at 15% oxygen.
      - (b) 115 lbs/hr
    - (2) *Distillate oil.*
      - (a) 42 ppmvd at 15% oxygen.
      - (b) 192 lbs/hr.
  - c. *Total Emissions (Base and Peaking Modes)*
    - (1) 425 TPY for SO<sub>2</sub> emitted while firing natural gas.
    - (2) 244 TPY for SO<sub>2</sub> emitted while firing distillate oil.
- [Rule 62-212.400, F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.11. PM Emissions.** The PM emissions shall not exceed the following emissions limits:

- a. *Base Mode.*
    - (1) *Natural gas.*
      - (a) 0.006 lb/MMBtu heat input.
      - (b) 6.5 lbs/hr.
    - (2) *Distillate oil.*
      - (a) 0.025 lb/MMBtu heat input
      - (b) 27 lbs/hr
  - b. *Peaking Mode.*
    - (1) *Natural gas.*
      - (a) 0.006 lb/MMBtu heat input.
      - (b) 7 lbs/hr.
    - (2) *Distillate oil.*
      - (a) 0.025 lb/MMBtu heat input.
      - (b) 29 lbs/hr.
  - c. *Total Emissions (Base and Peaking Modes)*
    - (1) 22 TPY for PM emitted while firing natural gas.
    - (2) 22 TPY for PM emitted while firing distillate oil.
- [Rule 62-212.400, F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.12. VOC Emissions.** The VOC emissions shall not exceed the following emissions limits:

- a. *Base Mode.*
  - (1) *Natural gas.*
    - (a) 0.0018 lb/MMBtu heat input
    - (b) 1.9 lbs/hr.
  - (2) *Distillate oil.*
    - (a) 0.0045 lb/MMBtu heat input.
    - (b) 4.8 lbs/hr.
- b. *Peaking Mode.*
  - (1) *Natural gas.*
    - (a) 1.4 ppmvd at 15% oxygen.
    - (b) 2.1 lbs/hr.
  - (2) *Distillate oil.*

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. Emissions Unit 008

- (a) 3.5 ppmvd at 15% oxygen.
    - (b) 5.1 lbs/hr.
  - c. *Total Emissions (Base and Peaking Modes).*
    - (1) 9 TPY for VOC emitted while firing natural gas.
    - (2) 6.7 TPY for VOC emitted while firing distillate oil.
- [Rule 62-212.400, F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.13. CO Emissions.** The CO emissions shall not exceed the following emissions limits:

- a. *Base Mode.*
    - (1) *Natural gas.*
      - (a) 25 ppmvd at 15% oxygen.
      - (b) 59 lbs/hr.
    - (2) *Distillate oil.*
      - (a) 25 ppmvd at 15% oxygen.
      - (b) 60 lbs/hr.
  - b. *Peaking Mode.*
    - (1) *Natural gas.*
      - (a) 25 ppmvd at 15% oxygen.
      - (b) 63 lbs/hr.
    - (2) *Distillate oil.*
      - (a) 25 ppmvd at 15% oxygen.
      - (b) 64 lbs/hr.
  - c. *Total Emissions (Base and Peaking Modes).*
    - (1) 232 TPY for CO emitted while firing natural gas.
    - (2) 79 TPY for CO emitted while firing distillate oil.
- [Rule 62-212.400, F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.14. Visible Emissions.** VE shall not exceed 10 percent opacity. [Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 5]

**B.15. Sulfuric Acid Mist (SAM) Emissions.** The SAM emissions shall be limited by firing only natural gas or No. 2 distillate fuel oil, as authorized by this permit. [Permit No. 1050003-005-AC/PSD-FL-166B, Specific Condition 1]

**B.16. Mercury (Hg) Emissions.** Emissions of Hg shall be limited by firing only natural gas or No. 2 distillate fuel oil. [Permit No. 1050003-005-AC/PSD-FL-166B, Specific Condition 1]

**Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

**B.17. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

**B.18. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C.]

**B.19. Excess Emissions, Malfunctions.** In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130,

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. Emissions Unit 008

F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(5), F.A.C.]

- B.20. Excess Emissions – NSPS.** For excess emissions regarding the NSPS Subpart GG provisions, see Appendix NSPS Subpart A and Appendix NSPS Subpart GG. [40 CFR 60.7, 60.331 & 60.334]

#### **Monitoring of Operations**

- B.21. Custom Fuel Monitoring Schedule for Natural Gas.**

- a. Analysis for fuel sulfur content of the natural gas shall be conducted using one of the EPA approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are: ASTM D1072-80, 90 (Reapproved 1994); ASTM D3246-81, 92, 96; ASTM D4468-85 (Reapproved 2000); and ASTM D6667-01 (see 40 CFR 60.17) as referenced in 40 CFR 60.335(b)(10).
- b. If the sulfur monitoring for natural gas shows little variability and the calculated sulfur dioxide emissions represent consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333 (see Appendix NSPS, Subpart GG), sampling and analysis shall be conducted twice per year. This monitoring shall be conducted during the first and third quarters of each calendar year.
- c. Should any sulfur analysis indicate noncompliance with 40 CFR 60.333 and the limit in Specific Conditions **B.2a.(1)** and **B.9c.(1)**, the permittee shall notify the Compliance Authority of such excess emissions and the customized fuel monitoring schedule shall be re-examined. The sulfur content of the natural gas will be monitored weekly during the interim period while this monitoring schedule is being reexamined.
- d. Notwithstanding the sulfur limitation in specific condition Specific Condition **B.2a.(1)** and **B.9c.(1)**, the permittee shall notify the Compliance Authority of any change in the natural gas supply for re-examination of this monitoring schedule. A substantial change in natural gas quality (i.e., sulfur content varying greater than 10 grains/1000 cubic feet of gas) shall be considered as a change in the natural gas supply. The sulfur content of the natural gas shall be monitored weekly during the interim period when this monitoring schedule is being re-examined.
- e. Records of sampling analysis and natural gas supply pertinent to this monitoring schedule shall be retained by the permittee for a period of five years, and shall be available for inspection by appropriate regulatory personnel.
- f. The permittee may obtain the sulfur content of the natural gas from the pipeline vendor.

[Rule 62-213.400, F.A.C.; 40 CFR 60.334(i)(3) & 60.335(b)(10)(ii); and Permit No. AC 53-190437/PSD-FL-166A]

- B.22. SO<sub>2</sub> – Fuel Sulfur Content.** Compliance with the distillate oil sulfur standard of 0.20%, by weight, or less shall be determined by ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01, all of which are incorporated by reference in 40 CFR 60.17 (See Appendix NSPS, Subpart A). These fuel analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.335(b)(10) & (11); and 1050003-020-AC/PSD-FL-166F, Specific Condition 15]

- B.23. NO<sub>x</sub> Monitoring Compliance.** As an alternative to operating the continuous water-to-fuel monitoring system, the permittee may use a NO<sub>x</sub> CEMS that meets the requirements of 40 CFR 75 to meet NSPS monitoring requirements and demonstrate compliance with NO<sub>x</sub> emissions standards in this permit. If the NO<sub>x</sub> CEMS is used for compliance, during times of CEMS unavailability, the water fuel ratio shall be monitored to show continuous compliance with the NO<sub>x</sub> emission limit. [Rule 62-4.070(3), F.A.C.; 40 CFR 60.334(a) & (b)(3)(iii); and Permit No. 1050003-020-AC/PSD-FL-166F]

*{Permitting Note: Permit No. AC 53-190437/PSD-FL-166 imposed provisions requiring continuous monitoring of water to fuel ratio. The option to use the Acid Rain CEMS in order to become exempt from CAM was offered in a Request for Additional Information (RAI) dated August 27, 2007. The permittee*

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Emissions Unit 008

*elected to demonstrate compliance with the NO<sub>x</sub> emissions limits with the CEMS in order to exempt this unit from CAM in Application No. 1050003-019-AV, dated May 21, 2012.*

#### **Continuous Emissions Monitoring Requirements**

*{Permitting Note: The permittee operates an Acid Rain CEMS pursuant to 40 CFR 75 in order to demonstrate compliance with NO<sub>x</sub> emissions standards.}*

#### **Test Methods and Procedures**

*{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

**B.24. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Matter Emissions from Stationary Sources
5B	Determination of Nonsulfuric Acid Particulate Matter Emissions from Stationary Sources
7	Determination of Nitrogen Oxide Emissions from Stationary Sources
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources <i>{Permitting Note: The method shall be based on continuous sampling train.}</i>
17	Determination of Particulate Matter Emissions from Stationary Sources
25A	Method of Determining Gaseous Organic Concentrations (Flame Ionization)
ASTM D129-00	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method)
ASTM D2622-98	Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-Ray Fluorescence Spectrometry
ASTM D4294-02	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry
ASTM D1266-98	Standard Test Method for Sulfur in Petroleum Products (Lamp Method)
ASTM D5453-00	Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Motor Fuels and Oils by Ultraviolet Fluorescence
ASTM D1552-01	Standard Test Method for Sulfur in Petroleum Products (High-Temperature Method)

The above methods are described in 40 CFR 60, Appendix A, 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.; and Permit Nos. AC 53-190437/PSD-FL-166, 1050003-012-AC/PSD-FL-166D & 1050003-016-AC/PSD-FL-166E]



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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. Emissions Unit 008

- B.25. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]
- B.26. Annual Compliance Tests Required.** During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for VE and CO. Depending on the compliance test results for VE and CO, compliance tests may be required for PM and VOC, respectively. [Rule 62-297.310(8)(a), F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D]
- B.27. Compliance Tests Prior To Renewal.** Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.b.(3)** in Appendix TR – Facility-wide Testing Requirements), in addition to the annual compliance tests specified above, compliance tests shall also be performed for VE and CO, prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in Specific Conditions **B.9-B.14**. In lieu of testing prior to renewal for NO<sub>x</sub>, the permittee may use a NO<sub>x</sub> CEMS for compliance so long as that CEMS meets the performance specifications and quality assurance and quality control measures of 40 CFR part 60 or 40 CFR part 75. Depending on the compliance test results for VE and CO, compliance tests may be required for PM and VOC, respectively. [Rules 62-210.300(2)(a) & 62-297.310(8)(b), F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D]
- {Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}*
- B.28. NO<sub>x</sub> Emissions Compliance Requirements.** Annual emissions testing is not required. The NO<sub>x</sub> CEMS certified in accordance with 40 CFR 75 and the Relative Accuracy Test Audit (RATA) test data, performed pursuant to 40 CFR 75, shall satisfy the annual compliance requirements for NO<sub>x</sub> emissions testing. [Rules 62-4.070(3) & 62-297.310(8)a.5.b., F.A.C.; and Permit No. 1050003-020-AC/PSD-FL-166F]
- B.29. VE and PM Emissions Compliance Requirements.** The stack opacity shall be determined by conducting EPA Reference Method 9, “Visual Determination of the Opacity of Emissions from Stationary Sources.” This test shall serve as a surrogate for particulate matter compliance testing. If 10% opacity is exceeded, the Department may require the permittee to determine particulate matter emissions by conducting EPA Reference Methods 5, 5B, or 17, “Determination of Particulate Matter Emissions from Stationary Sources. Annual compliance testing shall be performed for each fuel fired for 400 hours or more during the calendar year. [Permit No. 1050003-016-AC/PSD-FL-166E, Specific Condition 8]
- B.30. CO Emissions Compliance Requirements.** CO emissions shall be determined by conducting EPA Reference Method 10, “Determination of Carbon Monoxide Emissions from Stationary Sources.” Annual compliance testing shall be performed for each fuel fired for 400 hours or more during the calendar year. [Rule 62-297.310(8), F.A.C.; and 1050003-016-AC/PSD-FL-166E, Specific Condition 9]
- B.31. VOC Emissions Requirements.** VOC emissions shall be determined by conducting EPA Reference Method 25A, “Determination of Volatile Organic Emissions from Stationary Sources.” The permittee may also elect to conduct EPA Reference Method 18 on a concurrent sample to determine emissions of methane and ethane, which may be excluded from the determination of VOC emissions as determined by EPA Method 25A. Otherwise, all organic compounds measured by EPA Method 25A are assumed to be regulated VOC emissions. Testing for VOCs is not required as long as the emissions of CO meet the limits in Specific Condition **B.12**. [Rule 62-297.310(8), F.A.C.; and 1050003-012-AC/PSD-FL-166D, Specific Condition 10]
- B.32. Hg, Lead and Beryllium.** The initial compliance test requirement for these pollutants has been satisfied and no further tests are required. [Permit Nos. AC 53-190437/PSD-FL-166 & 1050003-005-AC/PSD-FL-166B]

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection B. Emissions Unit 008

#### **Recordkeeping and Reporting Requirements**

**B.33. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Excess Emissions Report	Quarterly	<b>B.36</b>
Distillate Oil Recordkeeping	Upon request	<b>B.37</b>
Excess Emissions – NSPS	Quarterly	<b>B.39</b>

[Rule 62-213.440(1)(b), F.A.C.]

**B.34. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

**B.35. Hours of Operation.** The permittee shall record the hours of operation for each fuel type and for operation in peaking mode. [Rule 62-4.070(3), F.A.C.; and Permit No. 1050003-012-AC/PSD-FL-166D, Specific Condition 13]

**B.36. Excess Emissions from Malfunctions.** In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. (see Appendix RR, condition RR2.). A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rules 62-213.440(1)(b)3.b. and 62-210.700(6), F.A.C.]

**B.37. Distillate Oil Recordkeeping.** To determine compliance with the capacity factor condition for oil firing (See Specific Condition **B.2a.(3)**), the permittee shall maintain daily records of fuel usage. All records shall be maintained for a minimum of five years after the date of each record and shall be made available to representatives of the Department upon request.

a. Sulfur content and lower heating value of the fuel being fired in the gas turbine shall also be recorded per fuel oil shipment. These records shall also be kept by the company for at least five years and made available for regulatory agency's inspection.

[Permit No. AC 53-190437/PSD-FL-166, Specific Conditions 16 & 17]

**B.38. Excess NO<sub>x</sub> Emissions – Notification.** Based on NO<sub>x</sub> CEMS data, any 3-hour average that exceeds the permitted standards shall be recorded and reported to the Compliance Authority within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident. [Rules 62-4.130, 62-210.700(6) and 62-213.440(1)(b), F.A.C.; 40 CFR 60.7; and 40 CFR 60.11(g)]

**B.39. Excess Emissions – NSPS.** Following the NSPS format, 40 CFR 60.7, Subpart A, periods of startup, shutdown, malfunction, shall be monitored, recorded, and reported as excess emissions when emission levels exceed the permitted standards. With regard to the emissions standards in Subpart GG of 40 CFR 60, quarterly excess emission reports shall be submitted to the Compliance Authority in accordance with 40 CFR 60.7(c). Quarterly reports are due within 30 days following each calendar quarter. [Rules 62-4.130 and 62-204.800, F.A.C.; 40 CFR 60.7; and 40 CFR 60.11(g)]

#### **Other Requirements**

**B.40. Federal Rule Requirements.** In addition to the specific conditions listed above, this emissions unit is also subject to the applicable requirements contained in 40 CFR 60, Subpart A – General Provisions and 40 CFR 60, Subpart GG – Standards of Performance for Stationary Gas Turbines. The Department may request correction to ISO conditions for comparison to the NSPS Subpart GG standards. [Rule 62-213.440, F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. Emissions Unit 014 and 015

##### Subsection C. The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
014	Startup Diesel Engine for CT No. 2
015	Startup Diesel Engine for CT No. 3

These are compression ignition (CI), black start, diesel fired engines. They are used as startup engines for Simple Cycle CT Peaking Unit Nos. 2 and 3, as described in Section III, Subsection A. These engines were initially started up in 1962. The following table provides important details for these engines. As an existing engine, it is subject only to the maintenance requirements for emergency reciprocating internal combustion engines (RICE) specified in 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

EU No.	Engine Brake HP	Date of Manufacture	Model Year	Serial #	Engine Manufacturer	Model No.
014	430	Pre-1962	Pre-1962	99525	Cummins	VT903-C
015	430	Pre-1962	Pre-1962	37112	Cummins	VT903-C

*{Permitting Note: These CI RICE are regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE, adopted and incorporated by reference in Rule 62-204.800(11)(b)82., F.A.C. These are existing stationary CI RICE with less than or equal to 500 HP that are located at an area source of HAP and have not been modified or reconstructed after 6/12/2006; and it has not been reconstructed or modified after 7/11/2005. The permittee shall comply with the following emissions and operating limitations in NESHAP Subpart ZZZZ.*

*Pursuant to 40, CFR 60, Subpart IIII, NSPS for Stationary CI RICE, this is an “existing” emergency engine that commenced construction (ordered) before 7/11/2005 and has not been modified or reconstructed after 7/11/2005. Therefore, it is not subject to Subpart IIII}*

#### **Operating Requirements**

##### **C.1. Work or Management Practice Standards.**

- Oil.* Change oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d.4.a.]
- Air Cleaner.* Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a) & Table 2d.4.b.]
- Hoses and Belts.* Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a) & Table 2d.4.c.]
- Operation and Maintenance.* Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer’s emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]
- Engine Startup.* During periods of startup the owner or operator must minimize the engine’s time spent at idle and minimize the engine’s startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]
- Oil Analysis.* The engine owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in paragraph **a**. The oil analysis must be performed at the same frequency specified for changing the oil in paragraph **a**. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the

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## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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### Subsection C. Emissions Unit 014 and 015

Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i)]

#### **Compliance**

- C.2. Continuous Compliance.** Each unit shall be in compliance with the emission limitations, operating limitations, and other requirements in this section at all times. [40 CFR 63.6605(a)]
- C.3. Operation and Maintenance of Equipment.** At all times you must operate and maintain any this unit, including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the compliance authority which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]

#### **Reporting Requirements**

- C.4. Delay of Performing Work Practice Requirements.** If shutting down the engine in order to perform the management practices on the required schedule in Specific Condition **C.1a., b. and c.** would otherwise pose an unacceptable risk under federal, state or local law, the management practice can be delayed until the unacceptable risk under federal, state or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 CFR 63.6603(a) & Table 2d, footnote 2]
- C.5. Operation Limitation – Deviations.** The permittee must report each instance in which each emission limitation or operating limitation in Specific Condition **C.1a., b. and c.** was not met. These instances are deviations from the operating limitations in NESHAP Subpart ZZZZ. These deviations as defined by NESHAP Subpart ZZZZ (See Appendix NESHAP, 40 CFR 63.6675) must be reported in the semiannual monitoring report. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 40 CFR 70.5(d). [40 CFR 63.6650(f) & 40 CFR 70.6(a)(3)(iii)(A)]

#### **Recordkeeping Requirements**

- C.6. Notification, Performance and Compliance Records.** The permittee must keep the following records described below:
- A copy of each notification and report that you submitted to comply with this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.
  - Records of all required maintenance performed on the air pollution control and monitoring equipment.
  - Records of actions taken during periods of malfunction to minimize emissions in accordance with Specific Condition **C.3**, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection C. Emissions Unit 014 and 015

- d. Records of the actions required in Specific Condition **C.1d.** to show continuous compliance with each emission limitation or operating requirement.
- e. The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE according to the permittee's maintenance plan.

[40 CFR 63.6655(a), (d), (e) & Table 6, Item 9.]

**C.7. Record Retention.** The permittee shall comply with the following recordkeeping provisions:

- a. The permittee must keep records in a form suitable and readily available for expeditious review.
- b. The files shall be retained for at least 5 years following the date of each occurrence, measurement, corrective action, report, or record.
- c. Each record must be kept and readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.10(b)(1) & 63.6660]

### **General Provisions**

- C.8. 40 CFR 63 Subpart A – General Provisions.** The owner or operator shall comply with the following applicable requirements of 40 CFR 63 Subpart A – General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. [Link to 40 CFR 63, Subpart A - General Provisions](#)

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions (Additional terms defined in §63.6675)
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.9(a)	Applicability and State delegation of notification requirements
§63.9(b)(1)–(5)	Initial notifications (Except that §63.9(b)(3) is reserved)
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665 & Table 8 to Subpart ZZZZ of Part 63]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS

#### Subsection D. Emissions Unit 016

##### Subsection D. The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
016	Emergency Engine for Site Lighting

This emissions unit is an International Harvester V8, propane fired, spark ignition (SI) engine used for emergency lighting at the facility. As an existing engine, it is subject only to the maintenance requirements for emergency reciprocating internal combustion engines (RICE) specified in 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Engine Brake HP	Date of Manufacture	Model Year	Serial #	Engine Manufacturer	Model No.
94.5	Pre-1990	Pre-1990	755790	International Harvester	V8

*{Permitting Note: This SI RICE is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE, adopted and incorporated by reference in Rule 62-204.800(11)(b)82., F.A.C. This is an existing stationary SI RICE with less than or equal to 500 HP that is located at an area source of HAP and has not been modified or reconstructed after 6/12/2006. The permittee shall comply with the following emissions and operating limitations in NESHAP Subpart ZZZZ.*

*Pursuant to 40, CFR 60, Subpart JJJJ, NSPS for Stationary SI RICE, this is an “existing” emergency engine that commenced construction (ordered) before 6/12/2006 and has not been modified or reconstructed after 6/12/2006. Therefore, it is not subject to Subpart JJJJ}*

#### **Essential Potential to Emit (PTE) Parameters**

##### **D.1. Hours of Operation.**

- Emergency Situations.* There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 63.6640(f)(1)]
- Maintenance and Testing.* This unit is authorized to operate 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 calendar year. The owner or operator 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 RICE beyond 100 hours per year. [40 CFR 63.6640(f)(2)(i)]
- Non-emergency Situations.* This unit is authorized to operate 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 and testing. [40 CFR 63.6640(f)(4)]

#### **Emission Limitations and Operating Requirements**

##### **D.2. Work or Management Practice Standards.**

- Oil.* Change oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d.5.a.]
- Spark Plugs.* Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first and replace as necessary. [40 CFR 63.6603(a) & Table 2d.5.b.]
- Hoses and Belts.* Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a) & Table 2d.5.c.]
- Operation and Maintenance.* Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer’s emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the

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## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS

### Subsection D. Emissions Unit 016

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engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]

- e. *Engine Startup.* During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]
- f. *Oil Analysis.* The engine owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in paragraph **a.** The oil analysis must be performed at the same frequency specified for changing the oil in paragraph **a.** The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(j)]

#### **Monitoring of Operations**

**D.3. Hour Meter.** The owner or operator must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

#### **Compliance**

**D.4. Continuous Compliance.** Each unit shall be in compliance with the emission limitations, operating limitations, and other requirements in this section at all times. [40 CFR 63.6605(a)]

**D.5. Operation and Maintenance of Equipment.** At all times you must operate and maintain any this unit, including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the compliance authority which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]

#### **Reporting Requirements**

**D.6. Delay of Performing Work Practice Requirements.** If shutting down the engine in order to perform the management practices on the required schedule in Specific Condition **D.2.a, b. and c.** would otherwise pose an unacceptable risk under federal, state or local law, the management practice can be delayed until the unacceptable risk under federal, state or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 CFR 63.6603(a) & Table 2d, footnote 2]

**D.7. Operation Limitation – Deviations.** The permittee must report each instance in which each emission limitation or operating limitation in Specific Condition **D.2.a, b. and c.** was not met. These instances are deviations from the operating limitations in NESHAP Subpart ZZZZ. These deviations as defined by NESHAP Subpart ZZZZ (See Appendix NESHAP, 40 CFR 63.6675) must be reported in the

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS

### Subsection D. Emissions Unit 016

semiannual monitoring report. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 40 CFR 70.5(d). [40 CFR 63.6650(f) & 40 CFR 70.6(a)(3)(iii)(A)]

#### **Recordkeeping Requirements**

**D.8. Notification, Performance and Compliance Records.** The permittee must keep the following records described below:

- a. A copy of each notification and report that you submitted to comply with this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.
- b. Records of actions taken during periods of malfunction to minimize emissions in accordance with Specific Condition **D.5**, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- c. Records of the actions required in Specific Condition **D.2d**, to show continuous compliance with each emission limitation or operating requirement.
- d. The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE according to the permittee's maintenance plan.
- e. The permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 CFR 63.6655(a), (d), (e) & Table 6, Item 9.]

**D.9. Record Retention.** The permittee shall comply with the following recordkeeping provisions:

- a. The permittee must keep records in a form suitable and readily available for expeditious review.
- b. The files shall be retained for at least 5 years following the date of each occurrence, measurement, corrective action, report, or record.
- c. Each record must be kept and readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.10(b)(1) & 63.6660]

#### **General Provisions**

**D.10. 40 CFR 63 Subpart A – General Provisions.** The owner or operator shall comply with the following applicable requirements of 40 CFR 63 Subpart A – General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. [Link to 40 CFR 63, Subpart A - General Provisions](#)

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions (Additional terms defined in §63.6675)
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.8(a)(1)	Applicability of monitoring requirements
§63.8(b)(1)	Monitoring
§63.8(c)(1)	Monitoring system operation and maintenance
§63.8(c)(1)(i)	Routine and predictable SSM



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**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS**

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**Subsection D. Emissions Unit 016**

<b>General Provisions Citation</b>	<b>Subject of Citation</b>
§63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan
§63.8(c)(4)	Continuous monitoring system (CMS) requirements
§63.8(c)(2)	Monitoring system installation
§63.8(c)(6)–(8)	CMS requirements
§63.8(d)	CMS quality control
§63.8(e)	CMS performance evaluation
§63.9(a)	Applicability and State delegation of notification requirements
§63.9(b)(1)–(5)	Initial notifications (Except that §63.9(b)(3) is reserved)
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665 & Table 8 to Subpart ZZZZ of Part 63]

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## SECTION IV. ACID RAIN PART.

### Federal Acid Rain Provisions:

Operated by: Lakeland Electric  
ORIS Code: 0675

The emissions units listed below are regulated under Acid Rain, Phase II.

#### **E.U.**

<b><u>ID No.</u></b>	<b><u>Brief Description</u></b>
-008	Larsen Unit No. 8

- A.1.** The Phase II Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:
- a. DEP Form No. 62-210.900(1)(a), dated 05/25/17, received 05/25/17.  
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]
- A.3.** Sulfur Dioxide (SO<sub>2</sub>) Emission Allowances. SO<sub>2</sub> emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.
- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
  - b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
  - c. Allowances shall be accounted for under the Federal Acid Rain Program.  
[Rule 62-213.440(1)(c)1., 2. & 3., F.A.C.]
- A.4.** Comments, Notes, and Justifications. None.

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## SECTION IV. ACID RAIN PART.

### Federal Acid Rain Provisions:

# Acid Rain Part Application

For more information, see instructions and refer to 40 CFR 72.30, 72.31, and 74; and Chapter 62-214, F.A.C.

This submission is: ☐ New ☐ Revised ☒ Renewal

#### STEP 1

Identify the source by plant name, state, and ORIS or plant code.

<b>Charles Larsen Memorial Power Plant</b> <small>Plant name</small>	<b>FL</b> <small>State</small>	<b>0675</b> <small>ORIS/Plant Code</small>
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#### STEP 2

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a."

If unit a SO<sub>2</sub> Opt-in unit, enter "yes" in column "b".

For new units or SO<sub>2</sub> Opt-in units, enter the requested information in columns "d" and "e."

a	b	c	d	e
Unit ID#	SO <sub>2</sub> Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO <sub>2</sub> Opt-in Units Commence Operation Date	New or SO <sub>2</sub> Opt-in Units Monitor Certification Deadline
EU 008	No	Yes	N/A	N/A
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

## SECTION IV. ACID RAIN PART.

### Federal Acid Rain Provisions:

#### Charles Larsen Memorial Power Plant

Plant Name (from STEP 1)

#### STEP 3

#### Read the standard requirements.

##### Acid Rain Part Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Submit a complete Acid Rain Part application (including a compliance plan) under 40 CFR Part 72 and Rules 62-214.320 and 330, F.A.C., in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
  - (ii) Submit in a timely manner any supplemental information that the DEP determines is necessary in order to review an Acid Rain Part application and issue or deny an Acid Rain Part.
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain Part application or a superseding Acid Rain Part issued by the DEP; and
  - (ii) Have an Acid Rain Part.

##### Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.
- (4) For applications including a SO<sub>2</sub> Opt-in unit, a monitoring plan for each SO<sub>2</sub> Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO<sub>2</sub> Opt-in units include an updated monitoring plan if applicable under 40 CFR 75.53(b).

##### Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000, or the deadline for monitor certification under 40 CFR Part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain Part application, the Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

##### Excess Emissions Requirements.

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77.

##### Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the EPA or the DEP:
  - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and

## SECTION IV. ACID RAIN PART.

### Federal Acid Rain Provisions:

Charles Larsen Memorial Power Plant

Plant Name (from STEP 1)

#### STEP 3, Continued.

#### Recordkeeping and Reporting Requirements (cont)

(iv) Copies of all documents used to complete an Acid Rain Part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72, Subpart I, and 40 CFR Part 75.

#### Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.

(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 75.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

#### Effect on Other Authorities.

No provision of the Acid Rain Program, an Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

#### STEP 4 For SO<sub>2</sub> Opt-in units only.

In column "f" enter  
the unit ID# for  
every SO<sub>2</sub> Opt-in  
unit identified in  
column "a" of  
STEP 2.

For column "g"  
describe the  
combustion unit  
and attach  
information and  
diagrams on the  
combustion unit's  
configuration.

In column "h"  
enter the hours.

f	g	h (not required for renewal application)
Unit ID#	Description of the combustion unit	Number of hours unit operated in the six months preceding initial application
N/A	N/A	N/A



# SECTION IV. ACID RAIN PART.

## Federal Acid Rain Provisions:

Plant Name (from STEP 1)
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### STEP 5

For SO<sub>2</sub> Opt-in units only.  
(Not required for SO<sub>2</sub> Opt-in renewal applications.)

In column "i" enter the unit ID# for every SO<sub>2</sub> Opt-in unit identified in column "a" (and in column "f").

For columns "j" through "n," enter the information required under 40 CFR 74.20-74.25 and attach all supporting documentation required by 40 CFR 74.20-74.25.

i	j	k	l	m	n
Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20 (mmBtu)	Actual SO <sub>2</sub> Emissions Rate under 40 CFR 74.22 (lbs/mmBtu)	Allowable 1985 SO <sub>2</sub> Emissions Rate under 40 CFR 74.23 (lbs/mmBtu)	Current Allowable SO <sub>2</sub> Emissions Rate under 40 CFR 74.24 (lbs/mmBtu)	Current Promulgated SO <sub>2</sub> Emissions Rate under 40 CFR 74.25 (lbs/mmBtu)
N/A	N/A	N/A	N/A	N/A	N/A

### STEP 6

For SO<sub>2</sub> Opt-in units only.

Attach additional requirements, certify and sign.

- If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 40 CFR 74.47 for combustion sources must be attached.
- A statement whether the combustion unit was previously an affected unit under 40 CFR 74.
- A statement that the combustion unit is not an affected unit under 40 CFR 72.6 and does not have an exemption under 40 CFR 72.7, 72.8, or 72.14.
- Attach a complete compliance plan for SO<sub>2</sub> under 40 CFR 72.40.
- The designated representative of the combustion unit shall submit a monitoring plan in accordance with 40 CFR 74.61. For renewal application, submit an updated monitoring plan if applicable under 40 CFR 75.53(b).
- The following statement must be signed by the designated representative or alternate designated representative of the combustion source: "I certify that the data submitted under 40 CFR Part 74, Subpart C, reflects actual operations of the combustion source and has not been adjusted in any way."

Signature		Date	5/25/17	
<b>Certification (for designated representative or alternate designated representative only)</b>				
I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.				
Name	Ronald Kremann		Title	Production Manager
Owner Company Name	Lakeland Electric			
Phone	863-834-6684	E-mail address	ron.kremann@lakelandelectric.com	
Signature		Date	5/25/17	

DEP Form No. 62-210.900(1)(a) – Form  
Effective: 3/16/08

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