# Lakeland Electric
# Charles Larsen Memorial Power Plant

Facility ID No. 1050003
Polk County

## Title V Air Operation Permit Renewal

Final Permit No. 1050003-017-AV
(Renewal of Title V Air Operation Permit No. 1050003-014-AV)

**Permitting Authority:**

State of Florida
Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance

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**Compliance Authority:**

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# Title V Air Operation Permit Renewal

Permit No. 1050003-017-AV

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**PERMITTEE:**
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501 East Lemon Street
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Permit No. 1050003-017-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 Hwy 92 East, Lakeland, Florida. UTM Coordinates: Zone 17, 408.9 km East and 3102.5 km North; and, Latitude: 28° 02' 56" North and Longitude: 81° 55' 25" West.

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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. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: January 01, 2013
Renewal Application Due Date: May 20, 2017
Expiration Date: December 31, 2017

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*for* Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

JFK/sa/ejs

**Subsection A. Facility Description.**

This facility consists of two simple cycle combustion turbine (CT) peaking units (#2 and #3), one simple and combined cycle CT (#8), three stationary RICE engines, fuel oil storage tanks and associated equipment. Peaking Units #2 and #3 are simple cycle CTs fired with natural gas or No. 2 distillate fuel oil with a maximum sulfur content of 0.50 percent by weight. Emissions Unit #8 is a 120 megawatt combined or simple cycle CT with a heat recovery steam generator (HRSG) that fires natural gas as the primary fuel and No. 2 distillate fuel oil with a maximum sulfur content of 0.20 percent by weight as a limited auxiliary fuel. Also, included in this permit are miscellaneous insignificant emissions units and/or activities.

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

| EU No. | Brief Description |
|---|---|
| *Regulated Emissions Units* | |
| -005 | Simple Cycle Combustion Turbine Peaking Unit #3 |
| -006 | Simple Cycle Combustion Turbine Peaking Unit #2 |
| -008 | Combined or Simple Cycle Combustion Turbine #8 |
| -014 | Startup Diesel Engine for Simple Cycle CT Peaking Unit #2 |
| -015 | Startup Diesel Engine for Simple Cycle CT Peaking Unit #3 |
| -016 | Emergency Engine for Site Lighting |

**Subsection C. Applicable Regulations.**

Based on the Title V air operation permit renewal application received May 21, 2012, this facility is not a major source of hazardous air pollutants (HAP). Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ, - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. The existing facility is a 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). |
|---|---|
| 40 CFR 60, Subpart A, Standards of Performance for New Stationary Sources (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 For Stationary Reciprocating Internal Combustion Engines | -014, -015, -016 |
| Rule 62-210.300, F.A.C., Permits Required | -005, -006, -008, -014, -015, -016 |
| Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD) | -008 |
| Acid Rain, Phase II $SO_2$ | -008 |

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

**FW1.** Appendices. The permittee shall comply with all documents identified in Section VI, 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. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, 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 application received May, 21 2012.]

**Annual Reports and Fees**

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

**FW6.** Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]

**FW7.** Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download 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. [Rule 62-213.205, F.A.C.]

**FW8.** 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 within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

**FW9.** 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 to: 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]

## Subsection A. Emissions Units 005 and 006

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

| EU No. | Brief Description |
|---|---|
| -005 | Simple Cycle CT Peaking Unit #3 |
| -006 | Simple Cycle CT Peaking Unit #2 |

Simple cycle CT peaking units #2 and #3 are fired with natural gas or No. 2 distillate fuel oil with a maximum sulfur content of 0.50 percent, by weight. CT #2 and #3 began commercial service in 1962. The maximum heat input rate for each CT is 209 MMBtu per hour. Each unit is rated at 11.5 megawatts (electric). Emissions from each CT are uncontrolled. Each CT has its own stack. A CAM plan is not required because there are no specific limiting standards and there are no add-on control devices installed. These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. These units are not subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. These units started-up in 1962 and have 31feet tall, 11.8 feet diameter stacks.

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

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

| EU 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(5), 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) and 62-210.200(PTE), F.A.C.]

**A. 2.** Methods of Operation.

a. *Fuels.* The fuels that are allowed to be burned in this unit/these units are:
   (1) Natural gas,
   (2) New No. 2 fuel oil,

{Permitting Note: Application No. 1050003-017-AV indicates a maximum fuel oil sulfur content of 0.5%, by weight} [Rules 62-4.160(2) and 62-213.440(1), F.A.C.; AO 53-238714; and application No. 1050003-017-AV]

[Rule 62-213.410, F.A.C.; Applicant's request in Title V permit application received May 21, 2012; and, Permit No. 1050003-017-AV.]

**A. 3.** Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

**A. 4.** Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), 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. Visible emissions shall not be equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.; and AO 53-238714]

**Excess Emissions**

**A. 6.** Excess Emissions Allowed. Excess emissions resulting from malfunction 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. 7.** 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(4), 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. 8.** Test Methods. 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 method is 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. [Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.]

**A. 9.** VE – Annual Testing. For any emissions unit that fires distillate oil for 400 hours or more during the federal fiscal year, the permittee shall conduct a VE test while firing distillate oil. [Rule 62-297.310(7)(a)4., F.A.C.; and application No. 1050003-017-AV]

**A. 10.** 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.]

**A. 11.** Annual Compliance Tests Required. During each federal fiscal year (October 1st to September 30th), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C.]

**Recordkeeping and Reporting Requirements**

**A. 12.** Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

| EU No. | Brief Description |
|---|---|
| -008 | Combined or Simple Cycle CT #8 |

This emissions unit is a 120 megawatt combined or simple cycle CT with an unfired heat recovery steam generator (HRSG) designated as Larsen Unit #8. CT #8 began commercial service in July, 1992. The CT fires natural gas as the primary fuel and No. 2 distillate fuel oil with a maximum sulfur content of 0.20 percent, by weight, as a limited auxiliary fuel. The CT is a GE Model PG7111 Frame 7EA unit equipped with low-$NO_x$ burners and water injection, to reduce nitrogen oxides ($NO_x$) emissions, and an inlet fogger system, to boost flow output. A duct module was installed that is suitable for future installation of selective catalytic reduction (SCR) equipment. The HRSG powers an existing steam turbine-generator. The emissions unit can exhaust through the HRSG or through a by-pass stack. CAM does not apply even though the $NO_x$ emissions are greater than 100 TPY before control and post control of $NO_x$ is by water injection because a CEMS is used for compliance purposes. Compliance is demonstrated annually by stack testing, by using a continuous monitoring system to monitor and record the fuel consumption and the ratio of water-to-fuel being fired in the turbine, and by the 40 CFR Part 75 Acid Rain $NO_x$ continuous emissions monitoring system (CEMS).

The emissions unit is regulated under Acid Rain, Phase II; NSPS - 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, adopted and incorporated by reference in Rule 62-204.800, F.A.C.; Prevention of Significant Deterioration (PSD), Permit No. PSD-FL-166, and as amended (A thru D); and, Best Available Control Technology (BACT), signed July 26, 1991. The unit started up July 7, 1992 and has155 feet, 16 feet diameter main stack and a 100 feet, 18.3 feet by 13.3 feet rectangular by-pass stack.

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

**B. 1.** Permitted Capacity - Base Mode Heat Input. At an inlet temperature of 25 $^{o}$F, the maximum heat input rates are 1075 MMBtu per hour firing natural gas or 1060 MMBtu per hour firing No. 2 distillate fuel oil. The inlet fogger system may be operated any time Unit #8 is in operation. [1050003-012-AC/PSD-FL-166D; and Rule 62-210.200(PTE), F.A.C.]

**B. 2.** Permitted Capacity - Peaking Mode Heat Input. At an inlet temperature of 25 $^{o}$F, the maximum heat input rates are 1161 MMBtu per hour firing natural gas or 1149 MMBtu per hour firing No. 2 distillate fuel oil. [1050003-012-AC/PSD-FL-166D; and Rule 62-210.200(PTE), F.A.C.]

**B. 3.** Methods of Operation. Fuels:

a. This emissions unit fires natural gas as the primary fuel and No. 2 distillate fuel oil as the secondary fuel.

b. The consumption of No. 2 distillate fuel oil shall not exceed 8,190 gallons per hour and 23,914,800 gallons per year.

c. The maximum annual firing of No. 2 distillate fuel oil shall not exceed 1/3 of the annual capacity factor.

d. The maximum sulfur content of the No. 2 distillate fuel oil shall not exceed 0.20 percent, by weight.

e. The maximum sulfur content of the natural gas shall not exceed 2 grains sulfur/100 standard cubic feet.

{Permitting Note: Compliance with the fuel sulfur content limits specific above show compliance with the fuel sulfur content limit of 40 CFR 60.332., which is 0.8% by weight}

[Rules 62-210.200(PTE), 62-212.400, and 62-212.410, F.A.C.; AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

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

**B. 5.** Hours of Operation - Peaking Mode. During any consecutive 12 months, Unit #8 shall operate in a peaking mode for no more than 3000 hours, of which a maximum of 500 hours can be used while firing No. 2 distillate fuel oil. [1050003-012-AC/PSD-FL-166D]

**B. 6.** Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), 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.8.-B.20**. are based on the specified averaging time of the applicable test method.

**B. 7.** $NO_x$ - Base Mode. The $NO_x$ emissions shall not exceed 25 parts per million by volume on a dry basis (ppmvd) at 15 percent oxygen, 107 pounds per hour (lbs/hr), and 425 tons per year (TPY) when firing natural gas. The $NO_x$ emissions shall not exceed 42 ppmvd at 15 percent oxygen, 180 lbs/hr, and 244 TPY when firing No. 2 distillate fuel oil. [Rule 62-212.400, F.A.C.; and 1050003-012-AC/PSD-FL-166D]

**B. 8.** $NO_x$ - Peaking Mode. The $NO_x$ emissions shall not exceed 25 ppmvd at 15 percent oxygen, 115 lbs/hr, and 425 TPY when firing natural gas. The $NO_x$ emissions shall not exceed 42 ppmvd at 15 percent oxygen, 192 lbs/hr, and 244 TPY when firing No. 2 distillate fuel oil. [Rule 62-212.400, F.A.C.; and 1050003-012-AC/PSD-FL-166D]

**B. 9.** $SO_2$ - Base Mode. The $SO_2$ emissions shall not exceed 3.5 lbs/hr and 12.9 TPY when firing natural gas. The $SO_2$ emissions shall not exceed 215 lbs/hr and 316 TPY when firing No. 2 distillate fuel oil. [Rule 62-212.400, F.A.C.; and 1050003-012-AC/PSD-FL-166D]

**B. 10.** $SO_2$ - Peaking Mode. The $SO_2$ emissions shall not exceed 3.5 lbs/hr and 12.9 TPY when firing natural gas. The $SO_2$ emissions shall not exceed 234 lbs/hr and 316 TPY when firing No. 2 distillate fuel oil. [Rule 62-212.400, F.A.C.; and 1050003-012-AC/PSD-FL-166D]

**B. 11.** PM - Base Mode. The PM emissions shall not exceed 0.006 lb/MMBtu heat input, 6.5 lbs/hr, and 22 tons per year when firing natural gas. The PM emissions shall not exceed 0.025 lb/MMBtu heat input, 27 lbs/hr, and 22 TPY when firing No. 2 distillate fuel oil. [Rule 62-212.400, F.A.C.; and 1050003-012-AC/PSD-FL-166D]

**B. 12.** PM - Peaking Mode. The PM emissions shall not exceed 0.006 lb/MMBtu heat input, 7.0 lbs/hr, and 22 TPY when firing natural gas. The PM emissions shall not exceed 0.025 lb/MMBtu heat input, 29 lbs/hr, and 22 TPY when firing No. 2 distillate fuel oil. [Rule 62-212.400, F.A.C.; and 1050003-012-AC/PSD-FL-166D]

**B. 13.** Sulfuric Acid Mist (SAM). The SAM emissions shall be limited by firing only natural gas or No. 2 distillate fuel oil, as authorized by this permit. [1050003-005-AC/PSD-FL-166B]

**B. 14.** Visible Emissions (VE). Visible Emissions shall not exceed 10 percent opacity. [AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

**B. 15.** Volatile Organic Compounds (VOC) - Base Mode. VOC emissions shall not exceed 0.0018 lb/MMBtu, 1.9 lbs/hr, and 9 TPY when firing natural gas. VOC emissions shall not exceed 0.0045 lb/MMBtu, 4.8 lbs/hr, and 6.7 TPY when firing No. 2 distillate fuel oil. [AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

**B. 16.** VOC - Peaking Mode. VOC emissions shall not exceed 1.4 ppmvd at 15 percent oxygen, 2.1 lbs/hr, and 9 TPY when firing natural gas. VOC emissions shall not exceed 3.5 ppmvd, 5.1 lbs/hr, and 6.7 TPY when firing No. 2 distillate fuel oil. [AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

**B. 17.** Carbon Monoxide (CO) - Base Mode. CO emissions shall not exceed 25 ppmvd at 15 percent oxygen, 59 lbs/hr, and 232 TPY when firing natural gas. CO emissions shall not exceed 25 ppmvd at 15 percent oxygen, 60 lbs/hr, and 79 TPY when firing No. 2 distillate fuel oil. [AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

**B. 18.** CO - Peaking Mode. CO emissions shall not exceed 25 ppmvd at 15 percent oxygen, 63 lbs/hr, and 232 tons per year when firing natural gas. CO emissions shall not exceed 25 ppmvd at 15 percent oxygen, 64 lbs/hr, and 79 tons per year when firing No. 2 distillate fuel oil. [AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

**B. 19.** Mercury (Hg). Emissions of Hg shall be limited by firing only natural gas or No. 2 distillate fuel oil. [1050003-005-AC/PSD-FL-166B]

**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. 20.** Excess Emissions Allowed. Excess emissions resulting from malfunction 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. 21.** 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(4), F.A.C.]

**B. 22.** Excess Emissions. 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. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

**B. 23.** Excess Emissions - NSPS. For excess emissions regarding the NSPS Subpart GG provisions, see Appendix NSPS Subpart A - General Provisions and Appendix NSPS Subpart GG – Stationary Gas Turbines. [40 CFR 60.7 and 40 CFR 60, Subpart GG]

**Monitoring of Operations**

**B. 24.** Fuel Consumption and Water-to-Fuel Ratio Monitoring. The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG, and using water injection to control $NO_x$ emissions shall calibrate, maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water-to-fuel being fired in the turbine. [40 CFR 60.334(a) and Rule 62-4.070(3), F.A.C.]

**B. 25.** 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, 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 condition **B.3.e.,** the permittee shall notify the Compliance Authority of such excess emissions and the customized fuel monitoring schedule shall be re-examined.

d. Notwithstanding the sulfur limitation in specific condition **B.3.e.**, 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 [40 CFR 60.334(b)(2) & (h)(2); 40 CFR 60.335(b)(10); Rule 62-213.400, F.A.C.; AC53-190437/PSD-FL-166A; and requested by applicant]

**B. 26.** $SO_2$ - Fuel Sulfur Content. To meet the requirements of 40 CFR 60.334(i)(1), the owner or operator shall determine compliance with the No. 2 distillate fuel oil sulfur content standard of 0.20 percent, by weight, using ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 (all of which are incorporated by reference, see 40 CFR 60.17) and ASTM D1072-80, 90 (Reapproved 1994); D3246-81, 92, 96; D4468-85 (Reapproved 2000); or D6667-01 (incorporated by reference - see 40 CFR 60.17) shall be used to determine compliance with the sulfur content standard of the natural gas. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator. The analysis 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); AC53-190437/PSD-FL-166; and 1050003-012-AC/PSD-FL-166D]

**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. 27.** Test Methods. 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 |
| 3 | Gas Analysis For The Determination of Dry Molecular Weight |
| 3A | Determination of Oxygen and Carbon Dioxide Concentrations In Emissions From Stationary Sources |
| 5 | Determination of Particulate Matter Emissions from Stationary Sources |
| 5B | Method for Determining Particulate Matter Emissions (All PM is assumed to be $PM_{10}$.) |
| 7 | Determination of Nitrogen Oxide Emissions from Stationary Sources |

| Method | Description of Method and Comments |
|---|---|
| 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<br>{Note: The method shall be based on a continuous sampling train.} |
| 17 | Determination of Particulate Matter Emissions from Stationary Sources |
| 20 | Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines |
| 25A | Method for Determining Gaseous Organic Concentrations (Flame Ionization) |
| ASTM | ASTM D6522-00 - Nitrogen Oxides, Carbon Monoxide and Oxygen Concentrations |

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. [62-297.401, F.A.C.; AC53-190437/PSD-FL-166; 1050003-012-AC/PSD-FL-166D; 1050003-016-AC/PSD-FL-166E; 40 CFR 60.11(g); 40 CFR 64; 40 CFR 75; and 40 CFR 60.335(a) & (b)(4)]

**B. 28.** 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. 29.** Annual Compliance Tests Required. During each federal fiscal year (October 1st to September 30th), compliance tests shall be conducted for VE, CO, NOx and diluent. Depending on the compliance test results for VE and CO, compliance tests may be required for PM and VOC, respectively. [1050003-012-AC/PSD-FL-166D]

**B. 30.** Compliance Tests Required for Permit Renewal. For permit renewal, compliance tests shall be required for VE, CO, NOx and diluent, and possibly PM and VOC depending the results of the compliance tests results for VE and CO, respectively. [1050003-012-AC/PSD-FL-166D]

**B. 31.** Additional Compliance Test Requirements.

a. NOx and Diluent. EPA Reference Method 20, ASTM D6522-00 (see 40 CFR 60.17), or EPA Reference Method 7E and either EPA Method 3 or 3A in Appendix A, 40 CFR 60, shall be used for compliance and to determine the NOx and diluent concentrations. EPA Reference Method 7E may be used provided there is no stack stratification. The Department may request correction to ISO conditions for comparison to the NSPS Subpart GG standards.

Since a $NO_x$ CEMS is used to monitor $NO_x$ and the owner or operator chose to monitor NOx emissions in accordance with 40 CFR 60.334(b), then the $NO_x$ CEMS monitoring system is the method of compliance. Monitoring of the water-to-fuel ratio is not required for compliance purposes under this section.

The CEMS shall be in continuous operation except for breakdowns, repairs, calibration checks, and zero and span adjustments. The CEMS shall meet minimum frequency of operation requirements: one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data average.

[Rules 62-4.070(3) and 62-213.440(1)(b), F.A.C.; AC53-190437/PSD-FL-166; 1050003-012-AC/PSD-FL-166D; 40 CFR 60.11(g); 40 CFR 64; 40 CFR 75; and 40 CFR 60.335(a) & (b)(4)]

**B. 32.** Nitrogen Oxides ($NO_X$). $NO_X$ emissions shall be determined by conducting EPA Reference Method 7 or 7E, "Determination of Nitrogen Oxide Emissions from Stationary Sources." Annual compliance testing shall be performed for each fuel fired for 400 hours or more during the federal fiscal year. [1050003-016-AC/PSD-FL-166E]

**B. 33.** PM/Opacity. 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 for opacity shall be performed for each fuel fired for 400 hours or more during the federal fiscal year. [1050003-016-AC/PSD-FL-166E]

**B. 34.** Carbon Monoxide (CO). 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 federal fiscal year. [1050003-016-AC/PSD-FL-166E]

**B. 35.** VOC. Compliance with the VOC standard shall be determined using EPA Reference Method 25A, 40 CFR 60, Appendix A, incorporated by reference in Chapter 62-297, F.A.C. 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 Reference Method 25A. Otherwise, all organic compounds measured by EPA Reference Method 25A are assumed to be regulated VOC emissions. Testing for VOC is not required as long as the emissions unit complies with the CO standards. [1050003-012-AC/PSD-FL-166D]

**B. 36.** Hg, Lead and Beryllium. The initial compliance test requirement for these pollutants has been satisfied and no further tests are required. [AC53-190437/PSD-FL-166 and 1050003-005-AC/PSD-FL-166B]

**Recordkeeping and Reporting Requirements**

**B. 37.** Hours of Operation. The applicant shall record the hours of operation for each fuel type and for operation in peaking mode. [1050003-012-AC/PSD-FL-166D]

**B. 38.** Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**B. 39.** Excess $NO_x$ Emissions – Notification. Based on $NO_x$ 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 62-4.070(3), 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. 40.** 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. 41.** 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. [Rule 62-213.440, F.A.C.]

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

| E.U. ID No. | Brief Description |
|---|---|
| -014 | Startup Diesel Engine for Simple Cycle CT Peaking Unit #2 |
| -015 | Startup Diesel Engine for Simple Cycle CT Peaking Unit #3 |

These are Cummins Diesel engines, Model No. VT903-C. They are used as startup engines for the simple cycle combustion turbine peaking units previously described in Section III, Subsection A.

The following table provides important details for these emissions units:

| E.U. ID No. | Engine Brake HP | Date of Construction | Model Year | Primary Fuel | Type of Engine | Displacement liters/cylinder (l/c) | Serial # | Date of last mod. or reconst. |
|---|---|---|---|---|---|---|---|---|
| -014 | 430 | Pre-1962 | Pre-1962 | Diesel | Black Start | | 99525 | N/A |
| -015 | 430 | Pre-1962 | Pre-1962 | Diesel | Black Start | | 37112 271 | N/A |

*{Permitting Note: These emissions units, compression ignition (CI) engines, are regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. These RICE are not used for fire pumps. This permit section addresses "existing" stationary CI RICE less than or equal to 500 HP that are located at an area source of HAP and that have not been modified or reconstructed after 6/12/2006. Unless the RICE is modified or reconstructed after 7/11/2005, NSPS 40 CFR 60, Subpart IIII, will not apply. The permittee shall comply with the following emissions and operating limitations no later than May 3, 2013, or as otherwise stated in Subpart ZZZZ.}*

**Operation and Maintenance Requirements**

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

a. Change oil and filter every 500 hours of operation or annually, whichever comes first;. [40 CFR 63 Table 2c(1)(a)]

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and [40 CFR 63 Table 2c(1)(b)]

c. 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 (4a, 4b, 4c)]

**Monitoring of Operations**

**C.2.** Monitoring of Operations. If you own or operate an existing emergency or black start stationary RICE located at an area source of HAP emissions, you must 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)(3)]

**C.3.** Monitoring of Operations. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing

emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

**C.4.** Monitoring of Operations. If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. [40 CFR 63.6625(h)]

**Compliance**

**C.5.** Work or Management Practices. Existing emergency and black start stationary RICE located at an area source of HAP:

a. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

b. Develop and follow 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 63.6640(c) Table 6 (9.a.i and ii)]

**Recordkeeping Requirements**

**C.6.** Notification, Performance and Compliance Records. If you must comply with the emission and operating limitations, you must keep the records described below:

a. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

b. Records of the occurrence and duration of each malfunction of operation ( *i.e.*, process equipment) or the air pollution control and monitoring equipment.

c. Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

d. Records of all required maintenance performed on the air pollution control and monitoring equipment.

e. Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.. [40 CFR 63.6655(a)(1) through (5)]

**C.7.** Recordkeeping. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d of 40 CFR 63, Subpart ZZZZ . [40 CFR 63.6655(e)(3)]

**General Provisions**

**C.8.** General Provisions. The owner or operator must comply with the general provisions in 40 CFR 63 Subpart A. [40 CFR 63.6665]

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

| E.U. ID No. | Brief Description |
|---|---|
| -016 | Emergency Engine for Site Lighting |

This emissions unit is an International Harvester V8, propane fired engine use for emergency lighting at the facility.

The following table provides important details for this emissions unit:

| E.U. ID No. | Engine Brake HP | Date of Construction | Model Year | Primary Fuel | Type of Engine | Displacement liters/cylinder (l/c) | Serial # | Date of last mod. or reconst. |
|---|---|---|---|---|---|---|---|---|
| -016 | 94.5 | Pre- 1990 | Pre-1990 | Propane | Emergency | | 755790 | N/A |

*{Permitting Note: This emissions unit, compression ignition (CI) engine, is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. This RICE is not used for fire pumps. This permit section addresses "existing" stationary CI RICE less than or equal to 500 HP that are located at an area source of HAP and that have not been modified or reconstructed after 6/12/2006. Unless the RICE is modified or reconstructed after 7/11/2005, NSPS 40 CFR 60, Subpart IIII, will not apply. The permittee shall comply with the following emissions and operating limitations no later than May 3, 2013, or as otherwise stated in Subpart ZZZZ.}*

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

**Operation and Maintenance Requirements**

**D.1.** Work or Management Practice Standards.

a. Change oil and filter every 500 hours of operation or annually, whichever comes first;. [40 CFR 63 Table 2c(1)(a)]

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and [40 CFR 63 Table 2c(1)(b)]

c. 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 (4a, 4b, 4c)]

**Monitoring of Operations**

**D.2.** Monitoring of Operations. If you own or operate an existing emergency or black start stationary RICE located at an area source of HAP emissions, you must 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)(3)]

**D.3.** Monitoring of Operations. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

**D.4.** Monitoring of Operations. If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. [40 CFR 63.6625(h)]

**Compliance**

**D.5.** Requirements for Emergency Stationary RICE. An existing emergency stationary RICE located at an area source of HAP emissions:

a. There is no time limit on the use of emergency stationary RICE in emergency situations.

b. You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. 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.

c. You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power. [40 CFR 63.6640(f)(i) through (iii)]

**Recordkeeping Requirements**

**D.6.** Notification, Performance and Compliance Records. If you must comply with the emission and operating limitations, you must keep the records described below:

a. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

b. Records of the occurrence and duration of each malfunction of operation ( *i.e.*, process equipment) or the air pollution control and monitoring equipment.

c. Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

d. Records of all required maintenance performed on the air pollution control and monitoring equipment.

e. Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.. [40 CFR 63.6655(a)(1) through (5)]

**D.7.** Recordkeeping. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d of 40 CFR 63, Subpart ZZZZ. [40 CFR 63.6655(e)(3)]

**General Provisions**

**D.8.** General Provisions. The owner or operator must comply with the general provisions in 40 CFR 63 Subpart A. [40 CFR 63.6665]

**Operated by:** Lakeland Electric
**ORIS code:** 0675

## SUBSECTION A. ACID RAIN UNITS

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

| EU No. | Brief Description |
|---|---|
| -008 | Combined or Simple Cycle CT #8 |

**A.1.** Acid Rain Applications. The permit applications submitted for this facility, as approved by the Department, are a part of this permit. The owners and operators of these acid rain units must comply with the standard requirements and special provisions set forth in the application received on 07/02/2007. [Chapter 62-213 and Rule 62-214.320, F.A.C.]

**A.2.** Summary of $SO_2$ Allowances. $SO_2$ allowance allocations requirements for each Acid Rain unit are as follows:

| EU No. | EPA ID | $SO_2$ Allowances* for Each Year | | | | |
|---|---|---|---|---|---|---|
| | | 2012 | 2013 | 2014 | 2015 | 2016 |
| -008 | 8 | 666* | 666* | 666* | 666* | 666* |

*The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2 of 40 CFR 73.

**A.3.** Emission Allowances. 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), F.A.C.]

**A.4.** Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3), F.A.C., shall be submitted within 60 days after the end of the calendar year. [Rule 62-214.420(11), F.A.C.]

**A.5.** Comments, Notes, and Justifications. None.

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

# Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ~ new ~ revised (~) for Acid Rain permit renewal

**STEP 1**

Identify the facility name, State, and plant (ORIS) code.

| | | |
|---|---|---|
| **Charles Larsen Memorial Power Plant** | **Florida**<br>State | **0675**<br>Plant Code |

**STEP 2**

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

| a | b |
|---|---|
| Unit ID# | Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1) |
| **EU 008** | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |
| | Yes |

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| Charles Larsen Memorial Power Plant |
|---|
| Facility (Source) Name (from STEP 1) |

Acid Rain - Page 2

**STEP 3**

Read the standard requirements.

**Permit Requirements**

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

**Monitoring Requirements**

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, 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.

**Sulfur Dioxide Requirements**

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; 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 affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected 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 affected unit under 40 CFR 72.6(a)(3).

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| Charles Larsen Memorial Power Plant |
|---|
| Facility (Source) Name (from STEP 1) |

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**Sulfur Dioxide Requirements, Cont'd.**

**STEP 3, Cont'd.**

(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 permit application, the Acid Rain permit, 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 affected 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 affected source 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 affected source 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 affected 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 Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; 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

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| Charles Larsen Memorial Power Plant |
|---|
| Facility (Source) Name (from STEP 1) |



submission of a new certificate of representation changing the designated representative;

STEP 3, Cont'd.

**Recordkeeping and Reporting Requirements, Cont'd.**

(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,
(iv) Copies of all documents used to complete an Acid Rain permit 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 affected source and each affected 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 permit application, an Acid Rain permit, 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 affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected 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 permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

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| Charles Larsen Memorial Power Plant |
|---|
| Facility (Source) Name (from STEP 1) |

Acid Rain - Page 5

STEP 3, Cont'd.

(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 affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

**Effect on Other Authorities, Cont'd.**

to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source 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
Read the certification statement, sign, and date.

**Certification**

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected 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.

| Ronald W. Kremann<br>Name | |
|---|---|
| Signature | Date 7/27/12 |

EPA Form 7610-16 (Revised 12-2009)

**Clean Air Interstate Rule (CAIR).**

**Operated by**: Lakeland Electric
**Plant**: Charles Larsen Memorial Power Plant
**ORIS Code**: 0675

The emissions units below are regulated under the Clean Air Interstate Rule.

| EU No. | EPA Unit ID# | Brief Description |
|---|---|---|
| 008 | 8 | 120 Megawatt Combined or Simple Cycle Combustion Turbine |

**1.** Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b)) dated March 16, 2008, which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]

# Clean Air Interstate Rule (CAIR) Part

For more information, see instructions and refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321 and 96.322; and Rule 62-296.470, F.A.C.

This submission is: ☐ New ☐ Revised ☒ Renewal

**STEP 1**

**Identify the source by plant name and ORIS or EIA plant code**

| Plant Name: | State: | ORIS or EIA Plant Code: |
|---|---|---|
| **Charles Larsen Memorial Power Plant** | **Florida** | **0675** |

**STEP 2**

**In column "a" enter the unit ID# for every CAIR unit at the CAIR source.**

**In columns "b," "c," and "d," indicate to which CAIR program(s) each unit is subject by placing an "X" in the column(s).**

**For new units, enter the requested information in columns "e" and "f.**

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| Unit ID# | Unit will hold nitrogen oxides ($NO_X$) allowances in accordance with 40 CFR 96.106(c)(1) | Unit will hold sulfur dioxide ($SO_2$) allowances in accordance with 40 CFR 96.206(c)(1) | Unit will hold $NO_X$ Ozone Season allowances in accordance with 40 CFR 96.306(c)(1) | New Units<br>Expected Commence Commercial Operation Date | New Units<br>Expected Monitor Certification Deadline |
| **EU 008** | X | X | X | | |
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| Charles Larsen Memorial Power Plant |
|---|
| Plant Name (from STEP 1) |

**STEP 3**

**Read the standard requirements.**

**CAIR $NO_X$ ANNUAL TRADING PROGRAM**

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR $NO_X$ source and each CAIR $NO_X$ unit at the source shall:
(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
(ii) [Reserved];
(2) The owners and operators of each CAIR $NO_X$ source and each CAIR $NO_X$ unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR $NO_X$ source and each CAIR $NO_X$ unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine compliance by each CAIR $NO_X$ source with the following CAIR $NO_X$ Emissions Requirements.

$NO_X$ Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR $NO_X$ source and each CAIR $NO_X$ unit at the source shall hold, in the source's compliance account, CAIR $NO_X$ allowances available for compliance deductions for the control period under 40 CFR 96.154(a) in an amount not less than the tons of total $NO_X$ emissions for the control period from all CAIR $NO_X$ units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
(2) A CAIR $NO_X$ unit shall be subject to the requirements under paragraph (1) of the $NO_X$ Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.
(3) A CAIR $NO_X$ allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the $NO_X$ Requirements, for a control period in a calendar year before the year for which the CAIR $NO_X$ allowance was allocated.
(4) CAIR $NO_X$ allowances shall be held in, deducted from, or transferred into or among CAIR $NO_X$ Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
(5) A CAIR $NO_X$ allowance is a limited authorization to emit one ton of $NO_X$ in accordance with the CAIR $NO_X$ Annual Trading Program. No provision of the CAIR $NO_X$ Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
(6) A CAIR $NO_X$ allowance does not constitute a property right.
(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR $NO_X$ allowance to or from a CAIR $NO_X$ unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR $NO_X$ unit.

Excess Emissions Requirements.

If a CAIR $NO_X$ source emits $NO_X$ during any control period in excess of the CAIR $NO_X$ emissions limitation, then:
(1) The owners and operators of the source and each CAIR $NO_X$ unit at the source shall surrender the CAIR $NO_X$ allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR $NO_X$ source and each CAIR $NO_X$ 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 before the end of 5 years, in writing by the DEP or the Administrator.
(i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR $NO_X$ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under 40 CFR 96.113 changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, 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 CAIR $NO_X$ Annual Trading Program.
(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR $NO_X$ Annual Trading Program or to demonstrate compliance with the requirements of the CAIR $NO_X$ Annual Trading Program.
(2) The CAIR designated representative of a CAIR $NO_X$ source and each CAIR $NO_X$ unit at the source shall submit the reports required under the CAIR $NO_X$ Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

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| Charles Larsen Memorial Power Plant |
|---|
| Plant Name (from STEP 1) |

**STEP 3, Continued**

Liability.

(1) Each CAIR $NO_X$ source and each CAIR $NO_X$ unit shall meet the requirements of the CAIR $NO_X$ Annual Trading Program.
(2) Any provision of the CAIR $NO_X$ Annual Trading Program that applies to a CAIR $NO_X$ source or the CAIR designated representative of a CAIR $NO_X$ source shall also apply to the owners and operators of such source and of the CAIR $NO_X$ units at the source.
(3) Any provision of the CAIR $NO_X$ Annual Trading Program that applies to a CAIR $NO_X$ unit or the CAIR designated representative of a CAIR $NO_X$ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR $NO_X$ Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR $NO_X$ source or CAIR $NO_X$ unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**CAIR $SO_2$ TRADING PROGRAM**

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR $SO_2$ source and each CAIR $SO_2$ unit at the source shall:
 (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 (ii) [Reserved];
(2) The owners and operators of each CAIR $SO_2$ source and each CAIR $SO_2$ unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR $SO_2$ source and each $SO_2$ CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96 ,Subpart HHH, and Rule 62-296.470, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR $SO_2$ source with the following CAIR $SO_2$ Emission Requirements.

$SO_2$ Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR $SO_2$ source and each CAIR $SO_2$ unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR $SO_2$ allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR $SO_2$ units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
(2) A CAIR $SO_2$ unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
(3) A CAIR $SO_2$ allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the $SO_2$ Emission Requirements, for a control period in a calendar year before the year for which the CAIR $SO_2$ allowance was allocated.
(4) CAIR $SO_2$ allowances shall be held in, deducted from, or transferred into or among CAIR $SO_2$ Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
(5) A CAIR $SO_2$ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR $SO_2$ Trading Program. No provision of the CAIR $SO_2$ Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
(6) A CAIR $SO_2$ allowance does not constitute a property right.
(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR $SO_2$ allowance to or from a CAIR $SO_2$ unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR $SO_2$ unit.

Excess Emissions Requirements.

If a CAIR $SO_2$ source emits $SO_2$ during any control period in excess of the CAIR $SO_2$ emissions limitation, then:
(1) The owners and operators of the source and each CAIR $SO_2$ unit at the source shall surrender the CAIR $SO_2$ allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

| Charles Larsen Memorial Power Plant |
|---|
| Plant Name (from STEP 1) |

**STEP 3, Continued**

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR $SO_2$ source and each CAIR $SO_2$ 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 before the end of 5 years, in writing by the Department or the Administrator.

(i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR $SO_2$ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under 40 CFR 96.213 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, 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 CAIR $SO_2$ Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR $SO_2$ Trading Program or to demonstrate compliance with the requirements of the CAIR $SO_2$ Trading Program.

(2) The CAIR designated representative of a CAIR $SO_2$ source and each CAIR $SO_2$ unit at the source shall submit the reports required under the CAIR $SO_2$ Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

(1) Each CAIR $SO_2$ source and each CAIR $SO_2$ unit shall meet the requirements of the CAIR $SO_2$ Trading Program.

(2) Any provision of the CAIR $SO_2$ Trading Program that applies to a CAIR $SO_2$ source or the CAIR designated representative of a CAIR $SO_2$ source shall also apply to the owners and operators of such source and of the CAIR $SO_2$ units at the source.

(3) Any provision of the CAIR $SO_2$ Trading Program that applies to a CAIR $SO_2$ unit or the CAIR designated representative of a CAIR $SO_2$ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR $SO_2$ Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR $SO_2$ source or CAIR $SO_2$ unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**CAIR $NO_X$ OZONE SEASON TRADING PROGRAM**

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR $NO_X$ Ozone Season source and each CAIR $NO_X$ Ozone Season unit at the source shall:

(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and

(ii) [Reserved];

(2) The owners and operators of each CAIR $NO_X$ Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR $NO_X$ Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR $NO_X$ Ozone Season source and each CAIR $NO_X$ Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHHH, and Rule 62-296.470, F.A.C.

(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR $NO_X$ Ozone Season source with the following CAIR $NO_X$ Ozone Season Emissions Requirements.

$NO_X$ Ozone Season Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR $NO_X$ Ozone Season source and each CAIR $NO_X$ Ozone Season unit at the source shall hold, in the source's compliance account, CAIR $NO_X$ Ozone Season allowances available for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total $NO_X$ emissions for the control period from all CAIR $NO_X$ Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.

(2) A CAIR $NO_X$ Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO, Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1),(2), or (3) and for each control period thereafter.

(3) A CAIR $NO_X$ Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the $NO_X$ Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR $NO_X$ Ozone Season allowance was allocated.

(4) CAIR $NO_X$ Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR $NO_X$ Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.

(5) A CAIR $NO_X$ Ozone Season allowance is a limited authorization to emit one ton of $NO_X$ in accordance with the CAIR $NO_X$ Ozone Season Trading Program. No provision of the CAIR $NO_X$ Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR $NO_X$ Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR $NO_X$ Ozone Season allowance to or from a CAIR $NO_X$ Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR $NO_X$ Ozone Season unit.

| Charles Larsen Memorial Power Plant |
|---|
| Plant Name (from STEP 1) |

**STEP 3, Continued**

Excess Emissions Requirements.

If a CAIR $NO_X$ Ozone Season source emits $NO_X$ during any control period in excess of the CAIR $NO_X$ Ozone Season emissions limitation, then:
(1) The owners and operators of the source and each CAIR $NO_X$ Ozone Season unit at the source shall surrender the CAIR $NO_X$ Ozone Season allowances required for deduction under 40 CFR 96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR $NO_X$ Ozone Season source and each CAIR $NO_X$ Ozone Season 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 before the end of 5 years, in writing by the DEP or the Administrator.
(i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR $NO_X$ Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under 40 CFR 96.113 changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, 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 CAIR $NO_X$ Ozone Season Trading Program.
(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR $NO_X$ Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR $NO_X$ Ozone Season Trading Program.
(2) The CAIR designated representative of a CAIR $NO_X$ Ozone Season source and each CAIR $NO_X$ Ozone Season unit at the source shall submit the reports required under the CAIR $NO_X$ Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

(1) Each CAIR $NO_X$ Ozone Season source and each CAIR $NO_X$ Ozone Season unit shall meet the requirements of the CAIR $NO_X$ Ozone Season Trading Program.
(2) Any provision of the CAIR $NO_X$ Ozone Season Trading Program that applies to a CAIR $NO_X$ Ozone Season source or the CAIR designated representative of a CAIR $NO_X$ Ozone Season source shall also apply to the owners and operators of such source and of the CAIR $NO_X$ Ozone Season units at the source.
(3) Any provision of the CAIR $NO_X$ Ozone Season Trading Program that applies to a CAIR $NO_X$ Ozone Season unit or the CAIR designated representative of a CAIR $NO_X$ Ozone Season unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR $NO_X$ Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR $NO_X$ Ozone Season source or CAIR $NO_X$ Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**STEP 4**

**Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.**

**Certification (for designated representative or alternate designated representative only)**

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR 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.

| | |
|---|---|
| **Ronald W. Kremann**<br>Name | **Plant Manager**<br>Title |
| **Lakeland Electric**<br>Company Owner Name | |
| **(863) 834 - 6684**<br>Phone | **Ron.Kremann@lakelandelectric.com**<br>E-mail Address |
| Signature | Date 7/27/12 |

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## SECTION VI. APPENDICES.

**The Following Appendices Are Enforceable Parts of This Permit:**

Appendix A, Glossary.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP, Subpart A – General Provisions.
Appendix NESHAP, Subpart ZZZZ, - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.
Appendix NSPS, Subpart A – General Provisions.
Appendix NSPS, Subpart GG, Stationary Gas Turbines.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.

## REFERENCED ATTACHMENTS.

**The Following Attachments Are Included for Applicant Convenience:**

Figure 1, Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance (40 CFR 60, July, 1996).
Table H, Permit History.
Table 1, Summary of Air Pollutant Standards and Terms.
Table 2, Compliance Requirements.