



Florida Department of Environmental Protection

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Herschel T. Vinyard Jr.
Secretary

PERMITTEE

Lakeland Electric
501 East Lemon Street
Lakeland, Florida 33801

Air Permit No. 1050004-032-AC
Minor Air Construction Permit
C.D. McIntosh Jr. Power Plant Sulfur
Restrictions for U1 and U3

Authorized Representative:
Ms. Farzie Shelton, Assistant General Manager

PROJECT

This is the final air construction permit, which authorizes restrictions on sulfur content of fuel oil on Unit 1 and prohibits the use of petroleum coke fuel in Unit 3. The proposed work/change will be conducted at the existing C.D. McIntosh Jr. Power Plant, which is a fossil fuel steam generating electrical production plant categorized under Standard Industrial Classification No. 4911. The existing facility is located in Polk County at 3030 East Lake Parker Drive in Lakeland, Florida. The UTM coordinates are Zone 17, 409.0 km East and 3106.2 km North.

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

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

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

Executed in Tallahassee, Florida

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

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Ms. Farzie Shelton, Lakeland Electric (farzie.shelton@lakelandelectric.com)

Mr. Tony Candales, RO for Lakeland Electric (tony.candales@lakelandelectric.com)

Mr. Bret Galbraith, Lakeland Electric (bret.galbraith@lakelandelectric.com)

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Ms. Lynn Scearce, DEP OPC (lynn.scearce@dep.state.fl.us)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The existing facility consists of the following emissions units.

Facility ID No. 1050004	
ID No.	Emission Unit Description
<i>Regulated Emissions Units</i>	
001	McIntosh Unit 1 - Fossil Fuel Fired Steam Generator
002	Diesel Engine Peaking Unit 2
003	Diesel Engine Peaking Unit 3
004	Gas Turbine Peaking Unit 1
005	McIntosh Unit 2 - Fossil Fuel Fired Steam Generator
006	McIntosh Unit 3 - Fossil Fuel Fired Steam Generator
028	McIntosh Unit 5 - 370 MW Combined Cycle Stationary Combustion Turbine
<i>Unregulated Emissions Units and Activities</i>	
007	Tanks with greater than 10,000 gallon capacity installed prior to July 23, 1984
008	Diesel drive coal tunnel sump engine
009	Fire water UPS diesel No. 31
010	Fire water UPS diesel No. 32
011	CT startup diesel
012	General purpose diesel engines
013	Emergency generators
014	General purpose painting
015	Parts Cleaning
016	Sand Blasting (Maintenance only)
017	Wastewater Treatment Tank
018	Three Cooling Towers (Units 2 and 3)
019	Northside Waste Water Treatment Facility - Wastewater treatment processes and tanks
020	Northside Waste Water Treatment Facility - Two emergency diesel generators
021	Northside Waste Water Treatment Facility - Chemical and petroleum storage
022	Northside Waste Water Treatment Facility - Miscellaneous activities
023	Coal processing and conveying system
024	Coal storage system
025	Coal transfer and loading system
026	Limestone handling and storage system
027	Fly ash handling and storage system
029	1.05 million gallon storage tank for McIntosh Unit 5, subject only to the reporting requirements of 40 CFR 60, Subpart Kb
030	Mechanical Draft Cooling Tower

SECTION 1. GENERAL INFORMATION

PROPOSED PROJECT

This project restricts the sulfur content of fuel oil to 0.7% for Unit 1 and removes petroleum coke as an authorized fuel for Unit 3.

This project establishes/modifies requirements for the following emissions units.

Facility ID No. 1050004	
ID No.	Emission Unit Description
001	McIntosh Unit 1 - Fossil Fuel Fired Steam Generator
006	McIntosh Unit 3 - Fossil Fuel Fired Steam Generator

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the DEP Southwest District Office at: 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); and Appendix C (Common Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Application for Title V Permit: This permit imposes the restrictions shown below to the authorized fuels of the permitted emissions units. A Title V air operation permit is required for regular operation of the permitted emissions unit. An application to incorporate the conditions of this permit into the facility's Title V air operation permit shall be submitted within 180 days of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan. To apply for a Title V air operation permit, the applicant shall submit the appropriate application form and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Unit 1

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
001	McIntosh Unit 1 - Fossil Fuel Fired Steam Generator

PERFORMANCE RESTRICTIONS

A.1. Authorized Fuel: Fuel oil deliveries into the Unit 1 fuel oil storage tank shall not exceed 0.7% sulfur content, by weight. This fuel sulfur limitation shall become effective upon the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan. [Application No. 1050004-032-AC and Rule 62-210.200(PTE), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS)

B. Unit 3

This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
006	McIntosh Unit 3 - Fossil Fuel Fired Steam Generator.

PERFORMANCE RESTRICTIONS

B.1. Authorized Fuel: Petroleum coke shall not be fired in Unit 3. This prohibition shall become effective upon the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan. [Rule 62-4.160(2) F.A.C. and Application No. 1050004-032-AC]

Note: Upon the effective date of EPA's approval of the above requirement in the Florida Regional Haze State Implementation plan, this condition will supersede the authority to fire petcoke authorized by permit No. PSD-FL-008(B), issued December 11, 1995, which was a revision to the original PSD permit issued by EPA in 1978.