Title V Air Operation Permit Revision
Permit No. 1050004-036-AV

APPLICANT

The applicant for this project is Lakeland Electric. The applicant's responsible official and mailing address are: Tony Candales, Assistant General Manager of Production, 501 East Lemon Street, Lakeland, Florida 33801.

FACILITY DESCRIPTION

The applicant operates the existing C.D. McIntosh, Jr. Power Plant which is located in Polk County at 3030 East Lake Parker Drive in Lakeland, Florida.

This facility consists of three fossil fuel fired steam generators, three diesel powered engines, and two gas turbines. Fossil fuel fired steam generator Unit 1 is fired with natural gas, No. 6 fuel oil or on-specification used oil generated by the City of Lakeland. Fossil fuel fired steam generator Unit 2 is fired with natural gas, propane, No. 2 fuel oil or No. 6 fuel oil. Fossil fuel fired steam generator 3 is fired with coal, natural gas and petroleum coke. Gas Turbine Peaking Unit 1 is primarily fired with natural gas or No. 2 fuel oil with a maximum sulfur content of 0.5 percent by weight. McIntosh Unit 5, a 370 MW combined cycle stationary combustion turbine, is fired with natural gas, or No. 2 or superior grade fuel oil with a maximum sulfur content of 0.05 percent by weight. The three diesel engines are: a 25 horsepower non-emergency Lister Coal Tunnel Sump diesel engine; a 300 horsepower emergency Fire Water UPS Diesel No. 32 engine; and a 500 horsepower black-start CT Startup Diesel engine.

This facility also includes miscellaneous unregulated/insignificant emissions units and/or activities.

PROJECT DESCRIPTION

The purpose of this permitting project is to revise the existing Title V air operation permit for the above referenced facility. The applicant applied on April 10, 2014, to the Department for a minor source air construction (AC) permit & a concurrent Title V air operation permit revision. The minor source AC permit & Title V air operation permit revision are for the removal of sulfuric acid mist (SAM) test requirements for Unit 3 at the C.D. McIntosh, Jr. Power Plant.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for an AC Permit Revision & a concurrent Title V Air Operation Permit Revision received on April 10, 2014 (complete application).
Draft AC Permit Revision clerked (issued) on April 24, 2014.
Final AC Permit Revision clerked (issued) on May 20, 2014.
Draft/Proposed Title V Air Operation Permit Revision posted onto web site on April 24, 2014.
Public Notice published on April 30, 2014.

PRIMARY REGULATORY REQUIREMENTS

Standard Industrial Classification (SIC) Code: 4911 – Electrical Generation.

HAP: The facility is identified as a major source of hazardous air pollutants (HAP).

Title IV: The facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

CAIR: The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

Siting: Unit 3 was originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) applies only to Unit 3 for control of particulate matter emissions by use of an electrostatic precipitator (ESP).

GHG: The facility is identified as a major source of greenhouse gas (GHG) pollutants.

PROJECT REVIEW

This project review summarizes the changes made in this Title V air operation permit revision.

The changes made in the draft/proposed permit document are specifically shown as follows: deletions are noted in ~~strikethrough~~ and additions are noted in double underline. Where Specific Condition were deleted subsequent condition were renumber accordingly. The changes are not shown in the final permit documents.

Permit

- Incorporation of Permit No. 1050004-035-AC (E.U. ID No. 006). The revisions that were made in Permit No. 1050004-035-AC are reflected in this revised Title V air operation permit. Specifically, the SAM test requirements in Specific Condition **D.35.** of the Title V air operation permit are removed.

CONCLUSION

This project revises Title V air operation permit No. 1050004-033-AV, which was effective on January 1, 2014. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 and 214, F.A.C.