Title V Air Operation Permit Revision
Permit No. 0090006-010-AV

APPLICANT

The applicant for this project is Florida Power & Light Company. The applicant's responsible official and mailing address are: Mr. Mark Lemasney, Plant General Manager, Cape Canaveral Energy Center, 700 Universe Boulevard, Juno Beach, Florida 33408.

FACILITY DESCRIPTION

The applicant operates the existing Cape Canaveral Energy Center, which is located in Brevard County on the West side of the Indian River, approximately eight miles North of Cocoa, Florida on U.S. Highway One.

This facility includes the following emissions units:

- Combined Cycle Unit 3 which is comprised of emissions units (EU) 009, 010, and 011. Each EU consists of: a combustion turbine generator (CTG) with automated control, inlet air filtration system and evaporative cooling, a gas-fired heat recovery steam generator (HRSG) with duct burner (DB), a HRSG stack, and associated support equipment. The project also includes one steam turbine generator (STG) that serves the combined cycle units.
- Two nominal 3,000 kilowatt (kW) liquid fueled emergency generators; Caterpillar C175; 6 MW. This is EU 015.
- One emergency diesel fire pump engine (315 hp) and a nominal 500 gallon fuel oil storage tank; John Deere; Model Number JU6H-UFAD98. This is EU 016.

PROJECT DESCRIPTION

The purpose of this permitting project is to revise the existing Title V permit for the above referenced facility.

PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is not 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.

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

PROJECT REVIEW

This Title V permit revision removes the fossil fuel fired boilers from the facility and adds the combined cycle unit. The underlying air construction permits for these actions are 0090006-005-AC and 0090006-007-AC. The applicant requested an air construction permit revision to change several conditions related to the power ratings of the two liquid fueled emergency generators and the one emergency diesel fire pump engine planned for installation at the facility. There was also a request for a change in hours of operation of the fire pump engine. These changes were implemented in concurrent air construction permit revision 0090006-009-AC. Potential increases in pollutants (PTE) are minimal. New source review for the proposed project is not triggered since the potential emission increases for all pollutants are less than their respective significant emission rate increase thresholds. Please note that the EU numbers of the emergency generators and the fire pump engine are different

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from the numbers in the Title V permit revision. This discrepancy was corrected using an administrative correction in an earlier permitting action. Permit number for this action was 0090006-008-AC.

CONCLUSION

This project revises Title V air operation permit No. 0090006-006-AV, which was effective on January 1, 2010. This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C.

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