TECHNICAL EVALUATION

APPLICANT

Florida Power & Light Company
700 Universe Boulevard
Juno Beach, Florida 33408

Turkey Point Nuclear Plant
Facility ID No. 0250003

PROJECT

Project No. 0250003-017-AC
Determination of Need for Air Construction Permit

Temporary Diesel Equipment

COUNTY

Miami-Dade County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
Power Plant Group
2600 Blair Stone Road, MS #5505
Tallahassee, Florida 32399-2400

October 3, 2011

1. GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Facility Description and Location

Turkey Point Nuclear Plant is an existing electrical generating power plant, which is categorized under Standard Industrial Classification Code No. 4911. The existing Turkey Point Nuclear Plant is located in Miami-Dade County, 10 miles east of Florida City on SW 344th Street, in Florida City, Florida. The UTM coordinates of the existing facility are Zone 17,567.2 km East, and 2813.2 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to state and federal Ambient Air Quality Standards (AAQS).

Facility Regulatory Categories

- 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.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Project Description

- On September 27, 2011, the Department received a request from FPL to evaluate the need for a construction permit to allow the deployment of six Diesel powered engines as temporary equipment to support the pending extended power uprate of the facility.

2. DEPARTMENT REVIEW

- The equipment will be deployed on a temporary basis only. The engines' status is non-road and portable. The expected duration of use ranges from one month to eighteen months. The Department has determined that the project qualifies for exemption under Rule 62-4, F.A.C.

3. CONCLUSION

Pursuant to Rule 62.4.040(1)(b) of the Florida Administrative Code (F.A.C.) and for the reasons previously stated, the Office of Permitting and Compliance in the Division of Air Resource Management determines that the activity will not emit air pollutants, "… in sufficient quantity, with respect to its character, quality or content, and the circumstances surrounding its location, use and operation, as to contribute significantly to the pollution problems

within the State, so that the regulation thereof is not reasonably justified." Therefore, the project is exempt from the requirement to obtain an air construction permit. This determination may be revoked if the proposed activity is substantially modified or the basis for the exemption is determined to be materially incorrect. Dr. Tom Cascio is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.