



FLORIDA DEPARTMENT OF Environmental Protection

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PERMITTEE

Florida Power & Light Company
9700 S.W. 344th Street
Homestead, Florida 33035

Authorized Representative:
Gary Kowalczyk, Regional Plant Manager

Air Permit No. 0250003-029-AC (PSD-FL-338D)
Permit Expires: December 31, 2019
Minor Air Construction Permit
Turkey Point Fossil Plant
Concurrent AC with 030-AV (Renewal)

PROJECT

This is the final air construction permit, which revises Permit Nos. 0250003-006-AC (PSD-FL-338) & 024-AC (PSD-FL-338B) for the following items: to revise the cooling tower information from 22-cell to 24-cell configuration (EU No. 014); to change the carbon monoxide (CO) compliance determination method for Unit 5 (EU Nos. 009-012) from continuous emissions monitors (CEMS) to stack testing and revise the time to submit updated manufacturer's performance curves. The Unit 5 annual compliance tests and actual emissions reporting requirements (established from PSD-FL-338B) were also revised to specify the operating conditions for the required CO stack testing. The existing Turkey Point Fossil Plant is an electric utilities facility categorized under Standard Industrial Classification No. 4911. The existing facility is in Miami-Dade County, 10 miles east of Florida City on SW 344 Street, Homestead, Florida. UTM Coordinates are: Zone 17, 567.2 km East and 2813.2 km North; Latitude: 25° 26' 09" North and Longitude: 80° 19' 52" West.

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. As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft 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

For:

Syed Arif, P.E., 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 Construction Permit package 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.

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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 Florida Power and Light (FPL) Company operates the Turkey Point Fossil Plant (TPFP), which is located south of Miami, east of Homestead and Florida City and adjacent to Biscayne Bay, in Miami-Dade County. The existing TPFP consists of a “4-on 1” combined cycle combustion unit system (Unit 5) and its ancillary equipment. Unit 5 commenced operation in 2007. The TPFP facility also includes a diesel engine-driven emergency fire pump, two propane emergency hurricane shelter engine generators, two emergency generators; a cooling tower, a storage tank; and, miscellaneous emissions units and/or activities.

The existing facility consists of the following emissions units (EU).

EU No.	Brief Description
009	Unit 5A gas turbine with supplementary-fired heat recovery steam generator
010	Unit 5B gas turbine with supplementary-fired heat recovery steam generator
011	Unit 5C gas turbine with supplementary-fired heat recovery steam generator
012	Unit 5D gas turbine with supplementary-fired heat recovery steam generator
013	One 4.2-million-gallon distillate fuel oil storage tank for Unit 5 gas turbines
014	One mechanical draft cooling tower for Unit 5
025	One 275 HP (205 kW) emergency diesel fire pump
026	Two 33 HP (25 kW) emergency hurricane shelter engine generators

PROPOSED PROJECT

The applicant is requesting revisions to Air Construction Permit Nos. 0250003-006-AC (PSD-FL-338), 024-AC (PSD-FL-338B), and 027-AC (338C). The miscellaneous revisions to the referenced permits include:

- The revision of the cooling tower information from 22-cell to 24-cell configuration (EU No. 014);
- Increasing the time to submit updated manufacturer’s performance curves for Unit 5 (EU Nos. 009-012);
- Changing the compliance demonstration for Unit 5 from CO CEMS to stack testing; and,
- Revising the State Implementation Plan (SIP) excess emissions reporting requirements for Unit 5 from quarterly to semi-annual submittals.

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.
- The facility does operate units subject to the New Source Performance Standards (NSPS) of Title 40 Part 60 of the Code of Federal Regulations (40 CFR 60).
- The facility does operate units subject to the National Emissions Standards of Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

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 District Office and Local Air Program. The mailing address and phone number of the Southeast District Office is: 400 North Congress Avenue, West Palm Beach, Florida 33401, 561/681-6600. The mailing address and phone number of the Local Air Program is: Miami-Dade County Regulatory and Economic Resources, Division of Environmental Resources Management, 701 NW 1st Court Suite 400 Miami, Florida 33136, 305/372-6925.
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); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).
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: The permittee shall notify the Compliance Authority upon commencement of construction. 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. Construction and Expiration: The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(3) & (4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Source Obligation:
 - a. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
 - b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
[Rule 62-212.400(12), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Combined Cycle Unit 5

This section of the permit addresses the following emissions units.

EU No.	Emission Unit Description
009	Unit 5A gas turbine with supplementary-fired heat recovery steam generator
010	Unit 5B gas turbine with supplementary-fired heat recovery steam generator
011	Unit 5C gas turbine with supplementary-fired heat recovery steam generator
012	Unit 5D gas turbine with supplementary-fired heat recovery steam generator

{Permitting Note: These emissions units are regulated under Acid Rain, Phase II; NSPS Subpart A, General Provisions, and Subpart KKKK, Standards of Performance for Stationary Gas Turbines, of 40 CFR 60, adopted and incorporated by reference in Rule 62 204.800(8)(b)84, F.A.C.; NESHAP Subpart A, General Provisions, and Subpart YYYY, NESHAP for Stationary Combustion Turbines, adopted and incorporated by reference in Rule 62 204.800(11)(b)81, F.A.C.; and Rule 62-212.400 (PSD), F.A.C., Prevention of Significant Deterioration (PSD), Best Available Control Technology (BACT).}

PERMITS BEING MODIFIED

The following revisions replace the referenced specific condition in **Permit Nos. 0250003-006-AC (PSD-FL-338) & 024-AC (338B)**:

1. *Permit No. 0250003-024-AC (PSD-FL-338B), Section 3, Specific Condition 5.*

Permitted Capacity - Gas Turbines: The maximum heat input rate to each gas turbine is 1,884 MMBtu per hour when firing natural gas and 1,908 MMBtu per hour when firing distillate fuel oil (based on a compressor inlet air temperature of 59° F, the lower heating value (LHV) of each fuel, and 100% load). Heat input rates will vary depending upon gas turbine characteristics, ambient conditions, alternate methods of operation, and evaporative cooling. The permittee shall provide manufacturer's performance curves (or equations) that correct for site conditions to the Permitting and Compliance Authorities within 4560 days of completing the initial compliance testing. Operating data may be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department. [Rule 62-210.200(PTE), F.A.C.; Permit No. 0250003-027-AC (338C); and Application No. 0250003-029-AC]

2. *Permit No. 0250003-006-AC (PSD-FL-338), Section 3, Subsection A, Specific Condition 9.a.*

a. Continuous compliance with the continuous 24-hour and 12-month CO standards shall either be demonstrated by stack tests using EPA Method 10 or based on data collected by the required optional CEMS. If a CEMS is used, the initial and annual EPA Method 10 tests associated with the certification of the CEMS instruments shall also be used to demonstrate compliance with the individual standards for natural gas, fuel oil, and basic duct burner mode. If compliance is demonstrated by CEMS, with the 24-hour CO CEMS standards shall be determined separately for the Duct Burner/Power Augmentation mode and all other modes based on the hours of operation for each mode. *{Permitting Note: A 24-hour compliance average may be based on as little as 1-hour of CEMS data or as much as 24-hours of CEMS data.}*

[Rule 62-212.400(BACT), F.A.C. and, Permit No. 0250003-006 (PSD-FL-338); and Application No. 0250003-029-AC]

3. *Permit No. 0250003-024-AC (PSD-FL-338B), Section 3, Specific Condition 9.*

Annual Compliance Tests: During each federal fiscal calendar year (October/January 1st to September 30th/December 31st), each gas turbine shall be tested to demonstrate compliance with the emission standards for visible emissions, CO (if a CO CEMS is not used), and ammonia slip, subject to the following additional requirements:

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Combined Cycle Unit 5

a. CO emissions recorded by the CEMS (if used) shall be reported for the visible emissions observation period.

b. Annual testing to determine the ammonia slip shall be conducted while firing the primary fuel. NO_x emissions recorded by the CEMS shall be reported for each ammonia slip test run. CO emissions recorded by the CEMS shall be reported for the visible emissions observation period.

{Note: After initial compliance with the VOC standards is demonstrated, annual and renewal compliance tests for VOC emissions are not required. Compliance with the continuously monitored CO standards shall indicate efficient combustion and low VOC emissions. The Department retains the right to require VOC testing if CO limits are exceeded or for the reasons given in Appendix SC, Condition 17, Special Compliance Tests.}

Additional Ammonia Slip Testing: If the tested ammonia slip rate for a gas turbine exceeds 5 ppmvd corrected to 15% oxygen when firing natural gas during the annual test, the permittee shall:

a. (1) Begin testing and reporting the ammonia slip for each subsequent calendar quarter;

b. (2) Before the ammonia slip exceeds 7 ppmvd corrected to 15% oxygen, take corrective actions that result in lowering the ammonia slip to less than 5 ppmvd corrected to 15% oxygen, and Corrective actions may include, but are not limited to, adding catalyst, replacing catalyst, or other SCR system maintenance or repair.

c. (3) Test and demonstrate that the ammonia slip is no more than 5 ppmvd corrected to 15% oxygen within 15 days after completing the corrective actions.

Corrective actions may include, but are not limited to, adding catalyst, replacing catalyst, or other SCR system maintenance or repair. After demonstrating that the ammonia slip level is no more than 5 ppmvd corrected to 15% oxygen, testing and reporting shall resume on an annual basis.

c. NO_x emissions recorded by the CEMS shall be reported for each ammonia slip test run.

d. The Department may require the permittee to conduct additional tests after major replacement or major repair of any air pollution control equipment, such as the SCR catalyst, DLN combustors, etc.

e. Annual CO stack testing shall be conducted under normal operating conditions, without firing the duct burners. Annual compliance tests when firing distillate oil are not required for any CT that fires distillate oil for less than 400 hours in the previous calendar year. Annual compliance tests for VOC emissions are not required, if annual CO stack testing demonstrates compliance with the CO emission standards or if CO is continuously monitored through CEMS. Compliance with the CO standards shall indicate efficient combustion and low VOC emissions. The Department retains the right to require VOC testing if CO limits are exceeded or for the reasons stated in Rule 62-297.310(7)(b), F.A.C. (Special Compliance Tests).

[PSD FL 338 and PSD FL 338B (Application 0250003-0024 AC) Specific Condition 20; Rules 62-212.400 (PSDBACT), & 62-297.310(7)(a)4, 62-297.310(7)(b), and 62-297.310(7)(a)1, F.A.C., and 40 CFR 60.8; and Application No. 0250003-029-AC]

4. Permit No. 0250003-006-AC (PSD-FL-338), Section 3, Subsection A, Specific Condition 19.

Continuous Compliance: The permittee shall demonstrate continuous compliance with the 24-hour CO and NO_x emissions standards based on data collected by the certified CEMS. The permittee shall demonstrate compliance with the CO emissions standards by stack tests or based on data collected by an optional certified CEMS. Within 45 days of conducting any Relative Accuracy Test Assessments (RATA) on a CEMS, the permittee shall submit a report to the Compliance Authority summarizing results of the RATA. Compliance with the CO emission standards also serves as an indicator of efficient fuel combustion, which reduces emissions of particulate matter and volatile organic compounds. The Department also reserves the right to use data from the continuous monitoring record and from annual RATA tests to determine compliance with the short term CO and NO_x limits for each method of operation given in Condition 9 above. [Rule 62-212.400 (BACT), F.A.C., and Application No. 0250003-029-AC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Combined Cycle Unit 5

5. *Permit No. 0250003-006-AC (PSD-FL-338), Section 3, Subsection A, Specific Conditions 21 and 21.d.*

CEM Systems: The permittee shall install, calibrate, maintain, and operate continuous emission monitoring systems (CEMS) to measure and record the emissions of CO (optional) and NO_x from the combined cycle gas turbine in a manner sufficient to demonstrate continuous compliance with the CEMS emission standards of this section. Each monitoring system shall be installed, calibrated, and properly functioning prior to the initial performance tests. Within one working day of discovering emissions in excess of a CO or NO_x standard (and subject to the specified averaging period), the permittee shall notify the Compliance Authority.

- d. *1-Hour Block Averages.* Hourly average values shall begin at the top of each hour. Each hourly average value shall be computed using at least one data point in each fifteen-minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly value shall be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour). If less than two such data points are available, the hourly average value is not valid. An hour in which any oil is fired is attributed towards compliance with the permit standards for oil firing. The permittee shall use all valid measurements or data points collected during an hour to calculate the hourly average values. The CEMS shall be designed and operated to sample, analyze, and record data evenly spaced over an hour. If the CEMS measures concentration on a wet basis, the CEM system shall include provisions to determine the moisture content of the exhaust gas and an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Alternatively, the owner or operator may develop through manual stack test measurements a curve of moisture contents in the exhaust gas versus load for each allowable fuel, and use these typical values in an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Final results of the CEMS shall be expressed as ppmvd corrected to 15% oxygen. The CEMS shall be used to demonstrate compliance with the CEMS emission standards for CO (optional) and NO_x as specified in this permit. For purposes of determining compliance with the CEMS emissions standards of this permit, missing (or excluded) data shall not be substituted. Upon request by the Department, the CEMS emission rates shall be corrected to ISO conditions to demonstrate compliance with the applicable standards of 40 CFR 60.332, Subpart KKKK.

[NSPS Subparts Da and GG; Rule 62-297.520, F.A.C.; 40 CFR 60.7(a)(5) and 40 CFR 60.13; 40 CFR Part 51, Appendix P; 40 CFR 60, Appendix B—Performance Specifications; 40 CFR 60, Appendix F—Quality Assurance Procedures; and Rules 62-4.070(3) & 62-212.400(BACT), F.A.C and; Permit Nos. 0250003-006-(PSD-FL-338) & 024 AC (PSD-FL-338B); and, Application No. 0250003-029-AC]

6. *Permit No. 0250003-006-AC (PSD-FL-338), Section 3, Subsection A, Specific Condition 27.*

Semi-Annual/Quarterly Excess Emission Report. Within 3060 days following the end of each calendar quarter/semi-annual period, the permittee shall submit each excess emissions report to the Compliance Authority summarizing periods of CO and NO_x emissions in excess of the permit standards (BACT, SIP and NSPS). The NSPS required excess emissions report should following the NSPS format provided in Figure 1, Summary Report - Gaseous and Opacity Excess Emission and Monitoring System Performance, attached to this permit.

For purposes of reporting emissions in excess of NSPS Subpart GG, excess emissions from the gas turbine are defined as: any operating hour in which the CEMS 4 hr rolling average NO_x concentration exceeds the NSPS NO_x emission standard identified in Appendix GG; and any monitoring period during which the sulfur content of the fuel being fired in the gas turbine exceeds the NSPS standard identified in Appendix GG. For purposes of reporting emissions in excess of NSPS Subpart Da, excess emissions from duct firing are defined as: NO_x or PM emissions in excess of the NSPS standards except during periods of startup, shutdown, or malfunction; and SO₂ emissions in excess of the NSPS standards except during startup or shutdown. For purposes of reporting emissions in excess of NSPS Subpart KKKK, a “4-hour rolling average NO_x emission rate” is the arithmetic average of the average NO_x emission rate in ppm or ng/J (lb/MWh) measured by the continuous emission monitoring equipment for a given hour and the three unit operating hour average NO_x

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Combined Cycle Unit 5

emission rates immediately preceding that unit operating hour. Calculate the rolling average if a valid NO_x emission rate is obtained for at least 3 of the 4 hours. For the purposes of this subpart, a "30-day rolling average NO_x emission rate" is the arithmetic average of all hourly NO_x emission data in ppm or ng/I (lb/MWh) measured by the continuous emission monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day. A new 30-day average is calculated each unit operating day as the average of all hourly NO_x emissions rates for the preceding 30 unit operating days if a valid NO_x emission rate is obtained for at least 75 percent of all operating hours.

Such information shall be summarized for all exceedances including startups, shutdowns, malfunctions, and major tuning sessions. In addition, ~~the each~~ report shall summarize the CEMS systems monitor availability for the previous ~~quarter~~ semi-annual period.

[Rules 62-4.130, ~~& 62-204.800 & 62-210.700(6)~~, F.A.C.; 40 CFR 60.7 & ~~60.334(j)(1)~~60.4380(b)(1); and, Permit PSD-FL-338, Specific Condition A.27Application No. 0250003-029-AC]

7. *Permit No. 0250003-006-AC (PSD-FL-338), Section 3, Subsection A, Specific Condition 28.*

Semi-Annual NSPS Excess Emissions Report: The submittal of the ~~Quarterly~~semi-annual Excess Emission Reports shall constitute compliance with the requirements of 40 CFR 60.7(d) for the submittal of Semiannual Excess Emissions Report.

[40 CFR 60.7(c), 60.7(d) & 60.4375; and, Application No. 0250003-029-AC]

8. *Permit No. 0250003-024-AC (PSD-FL-338B), Section 3, Specific Condition 3.*

Actual Emissions Reporting: This permit is based on an analysis that compared baseline actual emissions with projected actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.

- a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are provided in Appendix C of this permit.
- b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 5-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
 - (1) The name, address and telephone number of the owner or operator of the major stationary source;
 - (2) The annual emissions calculations pursuant to the provisions of 62-210.370, F.A.C., which are provided in Appendix C of this permit;
 - (3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
 - (4) Any other information that the owner or operator wishes to include in the report.
- c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.
- d. For this project, the permittee estimated the following baseline actual emissions: 30.44 tons/year of CO; 183.15 tons/year of NO_x; 13.91 tons/year of SO₂; 14.13 tons/year of VOC; 0.94 tons/year of PM/PM₁₀; and 2.13 tons/year of sulfuric acid mist (SAM).
- e. The Department has identified NO_x and CO as the only PSD-pollutants that could reasonably increase as a result of this modification. The permittee shall use the installed CEMS to determine and report the

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Combined Cycle Unit 5

actual annual emissions of NO_x and EPA Method 10 stack testing to determine and report the actual annual emissions of CO for the purpose of comparisons with baseline actual emissions. The required CO stack testing for the actual emissions report shall be conducted at normal operating conditions, without firing the duct burners.

{Permitting Note: Continuous compliance with the CO and NO_x standards will be demonstrated by CEMS. Other required stack tests may be conducted during the next scheduled period in accordance with existing permit conditions.}

[Rules 62-212.300(1)(e) & 62-210.370, F.A.C.; and, Permit No. 0250003-024-AC (338B) Application No. 0250003-029-AC]

9. *Permit No. 0250003-024-AC (PSD-FL-338B), Section 3, Specific Condition 10.*

CO Monitors (if used). The CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4 or 4A. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, or Part 75, and the Data Assessment Report of Section 7 shall be made each calendar quarter, and reported semiannually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10 in Appendix A of 40 CFR 60 and shall be based on a continuous sampling train. The CO monitor span values shall be set appropriately considering the allowable methods of operation and corresponding emission standards.

[NSPS Subparts Da and GG; Rule 62-297.520, F.A.C.; 40 CFR 60.7(a)(5) and 40 CFR 60.13; 40 CFR Part 51, Appendix P; 40 CFR 60, Appendix B – Performance Specifications; 40 CFR 60, Appendix F – Quality Assurance Procedures; and Rules 62-4.070(3) & 62-212.400(BACT), F.A.C and; Permit Nos. 0250003-006-(PSD-FL-338) & 024-AC (PSD-FL-338B); and, Application No. 0250003-029-AC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. Emissions Units 014

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
014	One mechanical draft cooling tower for Unit 5

{Permitting Note: This unit is regulated under Rule 62-212.400, F.A.C.}

PERMITS BEING MODIFIED

The following revisions replace the referenced specific condition in **Permit No. 0250003-006-AC (PSD-FL-338)**

1. *Section 3, Subsection 3, Specific Condition 1.*

Cooling Tower: The permittee is authorized to install one new 224-cell mechanical draft cooling tower with the following nominal design characteristics: a circulating water flow rate of 306,000 gpm; design hot/cold water temperatures of 105° F/87° F; a design air flow rate of 1,500,000 per cell; a liquid-to-gas air flow ratio of 1.045; and drift eliminators. The permittee shall submit the final design details within 60 days of selecting the vendor. [Application No. 0250003-029-AC; Design]