FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
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TALLAHASSEE, FLORIDA 32399-2400

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PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601-0111

Authorized Representative:
Mr. Frank Busot, Director, Bayside Power Station
Bayside Power Station

DEP File No. 0570040-032-AC and PSD-FL-301E
Minor Permit Revisions
Bayside Power Station
Hillsborough County
Expires: December 31, 2013

PROJECT AND LOCATION

This permit authorizes miscellaneous revisions to previously issued air construction permits. The proposed work will be conducted at the H.L. Culbreath Bayside Power Station, which is an electric generating utility (Standard Industrial Classification No. 4911). The existing power plant is located at 3602 Port Sutton Road, Tampa, in Hillsborough County. UTM Coordinates are Zone 17, 360.1 km East and 3087.5 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 and as described in the application, approved drawings, plans, and other documents on file with the Department. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C.

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

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

JFK/sa/th

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.

Mr. Frank Busot, TECO, Director, Bayside Power Plant (flbusot@tecoenergy.com)
Mr. Byron Burrows, TECO, Manager-Air Programs, P.E. (btburrows@tecoenergy.com)
Mr. Robert Velasco, TECO, EHS Air Programs (RAVelasco@tecoenergy.com)
Ms. Kelly M. Boatwright, Administrator, Southwest Office: Kelley.M.Boatwright@dep.state.fl.us
Ms. Dianna Lee, Hillsborough County EPC (lee@epchc.org)
Ms. Katy Forney, EPA Region 4: forney.kathleen@epa.gov
Ms. Heather Ceron, EPA Region 4: ceron.heather@epa.gov
Ms. Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
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.

Lynn Scearce
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FACILITY DESCRIPTION

The H. L. Culbreath Bayside Power Station is an electric power plant consisting of six primary electrical generating units, fuel yard, engines, and associated auxiliary equipment. The existing facility is an electric power plant categorized as Standard Industrial Classification No. 4911. The existing plant consists of the following emissions units.

- Unit 1 (EU 020 – 022) is a "3-on-1" combined cycle combustion turbine system consisting of three General Electric Model PG7241(FA) combustion turbines (169 megawatt (MW) each) and one common steam-electrical generator (239 MW) with a combined nominal generating capacity of 746 MW.
- Unit 2 (EU 023 – 026) is a "4-on-1" combined cycle combustion turbine system consisting of four General Electric Model PG7241(FA) combustion turbines (169 MW each) and one common steam-electrical generator (414 MW) with a combined nominal generating capacity of 1090 MW.

  Each combustion turbine set includes an automated gas turbine control system, an inlet air filtration system, an evaporative inlet air cooling system, an unfired heat recovery steam generator (HRSG), a single exhaust stack, electric fuel heaters, cooling towers and associated support equipment. Each combustion turbine fires natural gas and is equipped with dry low-NOx (DLN) combustion technology and a selective catalytic reduction (SCR) system to reduce nitrogen oxides (NOx) emissions. Emissions of CO and NO_X are monitored with continuous emissions monitoring systems (CEMS).
- Units 3 through 6 (EU 031 - 038) consist of four Pratt & Whitney Model No. FT8-3 SwiftPac® aero-derivative combustion turbine-electrical generator sets to operate in simple cycle mode. For each SwiftPac®, two combustion turbines are coupled to one common electrical generator set having a total nominal gross generation capacity of 62 MW. Each unit fires natural gas, controls NO_X emissions with water injection and carbon monoxide (CO) emissions with catalytic oxidation. Emissions of CO and NO_X are monitored with continuous emissions monitoring systems (CEMS).
- Fuel yard activities (EU 008).
- Diesel engines used to power generators and a fire pump (EU-039).

PROJECT DESCRIPTION

This permit addresses all the regulated emissions units at the facility. This permitting action revises several conditions in underlying air construction permits primarily related to permitted capacity, allowable fuels, startup, showdown, malfunctions and low load operations, continuous emissions monitoring requirements, excess emissions reporting requirements; fuel yard activities; and, facility engines.

These revisions to the existing construction permits are shown in ~~strike through~~ format for deletions and in double underline format for additions. For ease of identification, all changes have been highlighted in yellow within this DRAFT permit document. The revisions follow the existing permits numerical order. The revisions to the conditions only cover the paragraphs where the changes are made and not necessarily repeat the entire conditions.

REGULATORY CLASSIFICATION

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

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 (PSD-major source) in accordance with Rule 62-212.400, F.A.C.

The facility operates units subject to the Standards of Performance for New Stationary Sources pursuant to 40 Code of Federal Regulations (CFR) Part 60.

The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants pursuant to 40 CFR Part 63.

The facility operates units subject to the Acid Rain provisions of the Clean Air Act.

The facility operates units subject to the Federal Clean Air Interstate Rule (CAIR) in accordance with the Final

Department Rules issued pursuant to CAIR as implemented by FDEP in Rule 62-296.470, Florida Administrative Code (F.A.C.).

This facility is located in an area (Hillsborough County) designated "unclassifiable" for SO_2, "maintenance" for Ozone (O_3), and lead (Pb), in the "area of influence" of the PM maintenance area, and "attainment" for all the other criteria pollutants pursuant to Rule 62-204.340, F.A.C.

RELEVANT DOCUMENTS

Several documents shown in the following link are not a part of this permit, but helped form the basis for this permitting action. Documents related to this permitting action are posted under permit No. 0570040-032-AC at the following web site address: http://appprod.dep.state.fl.us/air/emission/apds/default.asp

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. The mailing address for the Office of Permitting and Compliance 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 Hillsborough County Environmental Protection Commission (HCEPC), Air Management Division. The mailing address and phone number of the HCEPC are 3629 Queen Palm Drive, Tampa, Florida 33619-1309; (813)627-2600 and (813)627-2620 (fax).

3. Appendices: The following Appendices are attached as part of this permit:
   a. Appendix A. Citation Formats and Glossary Terms;
   b. Appendix B. General Conditions; and
   c. 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, 62-214, 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 emissions unit shall be constructed or 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: This permit does not authorize any physical construction. The expiration date specified above is established to provide adequate time for the concurrently processed Title V air operation permit revision to be issued as a final 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 the expiration date of this 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(4), 62-4.080 & 62-210.300(1), F.A.C.]

8. Applicable Standards and Regulations: Except as specified in Section 3 below, the facility remains subject to all of the rules and requirements contained in all previously issued air construction permits for this facility.

9. Consent Decree References: This permit removes all references to EPA vs TEC Consent Decree in previous construction permits.

A. COMBINED CYCLE ENGINES

This section of the permit addresses the following emissions units.

EU No.	Brief Description
Regulated Emissions Units	
Bayside Unit 1 - Combined Cycle Unit with Three Gas Turbines and One Steam-Electrical Generator (746 MW, total)	
020	CT-1A – Combined Cycle Gas Turbine
021	CT-1B – Combined Cycle Gas Turbine
022	CT-1C – Combined Cycle Gas Turbine
Bayside Unit 2 - Combined Cycle Unit with Four Gas Turbines and One Steam-Electrical Generator (1090 MW, total)	
023	CT-2A – Combined Cycle Gas Turbine
024	CT-2B – Combined Cycle Gas Turbine
025	CT-2C – Combined Cycle Gas Turbine
026	CT-2D – Combined Cycle Gas Turbine

PERMIT BEING MODIFIED:

Permit No. 0570040-015-AC (PSD-FL-301A); 0570040-019-AC (PSD-FL-301C) and 0570040-028-AC (PSD-FL-301D)

Performance Restrictions

*Subsection III.A, Specific Condition **10**: This condition is revised as follows.*

10. ~~Permitted~~ Design Capacity. ~~The maximum heat input rate to each gas turbine shall not exceed 1842 MMBtu per hour while producing approximately 169 MW (shaft).~~ The ~~maximum~~ design heat input rate of 1842 MMBtu per hour is based on operation at 100% load, a compressor inlet air temperature of 59° F, the higher heating value (HHV) of natural gas and expected performance levels. Heat input rates will vary depending upon gas turbine characteristics, ambient conditions, and evaporative cooling. The permittee shall maintain on site records of the manufacturer's performance curves for the gas turbines. Operating data may be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department. [Permit No. PSD-FL-301A (0570040-015-AC); Rules 62-4.160(2), 62-210.200(PTE); 62-212.400(BACT), F.A.C.; and, Application No. 0570040-032-AC]

*Subsection III.A, Specific Condition **11**: This condition is revised as follows.*

11. Allowable Fuels. Each gas turbine shall fire only pipeline-quality natural gas. The fuel sulfur content shall not exceed 2 grains per 100 SCF of natural gas ~~based on a 12-month rolling average~~. Compliance with the fuel sulfur limit for natural gas shall be demonstrated by keeping reports obtained from the vendor indicating the average sulfur content of the natural gas being supplied from the pipeline for each month of operation. ~~Compliance shall be demonstrated each month by compiling the daily fuel sulfur analyses provided by the pipeline vendor~~. Methods for determining the sulfur content of the natural gas shall be in accordance with applicable 40 CFR Part 75 procedures, as amended or ASTM methods D4084-82, D3246-81 or equivalent methods. No other fuels are allowed. [Permit No. PSD-FL-301A (0570040-015-AC); Rules 62-210.200(PTE) and 62-213.410, F.A.C.; DEP/TEC Consent Final Judgment; ~~EPA/TEC Consent Decree~~; and, Application No. 0570040-032-AC]

Startup, Shutdown, Malfunction and Low Load Operations

*Subsection III.A, Specific Condition **17. c. 5**. Alternative Standards and CEMS Data Exclusion: This condition is revised as follows.*

17. Alternative Standards and CEMS Data Exclusion: As provided by the authority in Rule 62-210.700(5), F.A.C., the above requirements are established in lieu of the provisions of Rule 62-210.700(1), F.A.C. The following permit conditions establish alternate standards or allow the exclusion of monitoring data for specifically defined periods of startup, shutdown, malfunction and other limited-use operations. These conditions apply only if operators employ the best operational practices to minimize the amount and duration of emissions during such incidents.

No change to a. through c. (1) - (4).

c. CEMS Data Exclusion

(5) *DLN Tuning*. "DLN Tuning" means operating the gas turbine at intermittent loads throughout the full load range in order to adjust and tune the dry low-NOx (DLN) combustion system. DLN tuning shall be conducted in accordance with manufacturer's recommendations (or industry standards). *{Permitting Note: For example, a major tuning session would occur after combustor change-out.}*

(6) *Other Tuning*: "Other tuning" shall mean any on-line adjustments necessary following maintenance work to allow the units to operate to manufacturers' recommendations or industry standards or modifying the water-to-fuel ratio to affect a change in the post combustion air emissions. Excess CEMS emissions data collected during tuning may be excluded from the compliance averages.

No change to the rest of this condition language; except for the update of paragraphs numbers (6), (7) and (8).

[Design; Rules 62-4.130, 62-210.700(5), and 62-212.400 (BACT), F.A.C.; Permit Nos . PSD-FL-301 ~~B~~ A (0570040-015-AC); PSD-FL-301 D (0570040-028-AC); and, Application No. 0570040-032-AC]

Continuous Monitoring Requirements

*Subsection III.A, Specific Condition **23**. Continuous Emissions Monitoring Systems: This condition is revised as follows.*

23. Continuous Emissions Monitoring Systems: The permittee shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) in the exhaust stack of each emissions unit to measure and record emissions of CO and NO_X in a manner sufficient to demonstrate compliance with the CEMS emission standards of this permit. The carbon dioxide (CO_2) content of the flue gas shall also be monitored at the location where CO and NO_X are monitored to correct the measured emissions rates to 15% oxygen. The oxygen content of the flue gas shall be calculated by the CEMS using the CO_2 content of the flue gas and an F-factor that is appropriate for natural gas.

No change *a*. through *c*.

d. *NO_X and CO_2 Certifications*. The NO_X and CO_2 monitors shall be certified pursuant to 40 CFR Part 75 and maintained in accordance with the applicable requirements of 40 CFR Part 75, Subparts B and C. For purposes of determining compliance with the CEMS emission standards of this permit, missing data shall not be substituted. Instead the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block. Record keeping and reporting shall be conducted pursuant to 40 CFR Part 75, Subparts F and G. The relative accuracy test assessments (RATA) required for the NO_X monitor shall be performed using EPA Method 7E or 20 as defined in Appendix A of 40 CFR 60. The span for the NO_X monitor shall not be greater than 10 ppmvd corrected to 15% oxygen. A dual span monitor may be used. The RATA required for the CO_2 monitor shall be performed using EPA Method 3A, of Appendix A in 40 CFR 60.

e. *CO ~~and CO_2~~ Certification.* ~~The CO_2 monitor shall meet Performance Specification 3 in Appendix B of 40 CFR 60.~~ The CO monitor shall be certified pursuant to Performance Specification 4 in Appendix B of 40 CFR 60. Quality assurance procedures for ~~each~~ this monitor shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of Section 7 shall be made each calendar quarter and reported semi-annually to the Compliance Authority. ~~The RATA required for the CO_2 monitor shall be performed using EPA Method 3A, of Appendix A in 40 CFR 60.~~ The RATA required for the CO monitor shall be performed using EPA Method 10, of Appendix A in 40 CFR 60. The Method 10 analysis shall use a continuous sampling train. The span for the CO monitor shall not be

greater than 25 ppmvd corrected to 15% oxygen. A dual span CO monitor may be used.

f. *Monitor Availability*. Monitor availability shall not be less than 95% in any calendar quarter. ~~The quarterly Data Assessment Report required in Condition 23.e above shall be used to demonstrate monitor availability and shall be reported with the Semiannual CEMS Report.~~ In the event 95% availability is not achieved, the permittee shall provide the Compliance Authority with a report identifying the problems in achieving 95% availability and a plan of corrective actions that will be taken to achieve 95% availability. The permittee shall implement the reported corrective actions within the next calendar quarter. Failure to take corrective actions or continued failure to achieve the minimum monitor availability shall be violations of this permit. The quarterly reports shall be submitted semiannually in conjunction with the Semiannual CEMS Report in Condition 25.

No change to the rest of this condition.

[Permit Nos. PSD-FL-301A (0570040-015-AC) and PSD-FL-301D (0570040-028-AC); Rules 62-4.070(3), 62-210.700(5), and 62-212.400(BACT), F.A.C.; and, Application No. 0570040-032-AC]

Records and Reports

*Subsection III.A, Specific Condition **25**. Semiannual CEMS Reports: This condition is revised as follows.*

25. Semiannual CEMS Report: In addition to the reports required pursuant to 40 CFR 60.7, the permittee shall submit semiannual reports for each gas turbine summarizing the CEMS data and equipment. For each calendar quarter, the report shall include: the 24-hour block compliance averages for each day of operation; the number of 1-hour emission averages excluded from each 24-hour compliance average; the emissions rate of the excluded monitoring data; the reason for excluding monitoring data; the hours of missing data due to monitor downtime; the reason for any monitor downtime; ~~unusual maintenance or repair of the CEMS;~~ and a summary of any RATA tests performed. ~~Based on operational data, the permittee shall also update the general range of ammonia flow rates required to meet NOx emissions limitations over the range of gas turbine load conditions.~~ A report covering operations from January through June shall be submitted by July 30th of each year. A report covering operations from July through December shall be submitted by January 30th of each year. The data assessment report required by Condition 23.e. shall be submitted in conjunction with the Semiannual CEMS Report. The report due dates may be modified by the Title V permit. [Permit Nos. PSD-FL-301A (0570040-015-AC) and PSD-FL-301D (0570040-028-AC); Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.; and, Application No. 0570040-032-AC]

B. SIMPLE CYCLE ENGINES

This section of the permit addresses the following emissions units.

EU No.	Brief Description
Regulated Emissions Units	
Bayside Unit 3 – Simple Cycle Peaking Unit with Two Combustion Turbines and One Electrical Generator Set (62 MW)	
031	Unit 3A - Simple Cycle Combustion Turbine
032	Unit 3B - Simple Cycle Combustion Turbine
Bayside Unit 4 – Simple Cycle Peaking Unit with Two Combustion Turbines and One Electrical Generator Set (62 MW)	
033	Unit 4A - Simple Cycle Combustion Turbine
034	Unit 4B - Simple Cycle Combustion Turbine
Bayside Unit 5 – Simple Cycle Peaking Unit with Two Combustion Turbines and One Electrical Generator Set (62 MW)	
035	Unit 5A - Simple Cycle Combustion Turbine
036	Unit 5B - Simple Cycle Combustion Turbine
Bayside Unit 6 – Simple Cycle Peaking Unit with Two Combustion Turbines and One Electrical Generator Set (62 MW)	
037	Unit 6A - Simple Cycle Combustion Turbine
038	Unit 6B - Simple Cycle Combustion Turbine

PERMIT BEING MODIFIED: Permit No. 0570040-024-AC and 0570040-028-AC

Emission Limitations and Standards

Subsection III, Specific Condition 9: This condition is revised as follows.

9. Emission Standards: Emissions from each SCCT peaking unit shall not exceed the following standards.

Pollutant	Emission Standard [e]	Averaging Time	Compliance Method	Basis
NOx[a]	25~~.0~~ ppmvd @ 15% O_2	4-hr rolling avg.[f]	CEMS	NSPS Subpart KKKK
	32.0 lb/hr/SCCT 56.0 tons/yr/SCCT	3 1-hr runs	Annual RATA	Rule 62-4.070(3), F.A.C.
CO[b]	21~~.0~~ ppmvd @ 15% O_2	3-hr rolling avg.	CEMS	~~ESCPSD~~ Source Obligation Rule 62-212.400(12), F.A.C.
	9.1 lb/hr/SCCT 8.2 tons/yr/SCCT	3 1-hr runs	Annual RATA	

No change to the rest of this condition.

[Rules 62-4.070(3), 62-210.200(Definitions-PTE) and 62-212.400(PSD), F.A.C.; and 40 CFR 60, Subpart KKKK; Permit Nos. 0570040-024-AC; 0570040-028-AC; 0570040-031-AC and, Application No. 0570040-032-AC]

Excess Emissions

*Section IV, Appendix E, Specific Condition **17**. Excess Emissions Allowed. This condition is revised as follows.*

17. Excess CO Emissions Allowed - SIP: If excess CO emissions occur due to startup, shutdown, malfunction, ~~or~~ tuning or black start testing, CEMS data collected during such periods may be excluded from the compliance averages in accordance with the following requirements provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. All periods of excluded data shall be consecutive for each such episode and only data obtained during the described episodes (startup, shutdown, malfunction and tuning) may be excluded.

1. *Startup*: In accordance with the procedures described in the CEMS Data Requirements of this section, no more than the first ~~10~~ 15 minutes of CEMS data indicating exceedences of emission limits collected during startup shall be excluded for each simple cycle combustion turbine. For startups of less than ~~10~~ 15 minutes in duration, only those minutes of exceedances attributable to startup shall be excluded. The total duration of a startup event is not limited

2. *Shutdown*: In accordance with the procedures described in the CEMS Data Requirements of this section, no more than the first ~~10~~ 15 minutes of CEMS data indicating exceedences of emission limits collected during shutdown shall be excluded for each simple cycle combustion turbine. For shutdowns less than ~~10~~ 15 minutes in duration, only those minutes of exceedances attributable to shutdown shall be excluded. The total duration of a startup event is not limited

3. *Malfunction*: In accordance with the procedures described in the CEMS Data Requirements of this section, no more than 120 minutes of CEMS data in a 24-hour period shall be excluded due to malfunctions of each gas turbine or control system. Within one working day of occurrence, the owner or operator shall notify the Compliance Authority of any malfunction resulting in the exclusion of CEMS data.

4. *Tuning*: "Tuning" means any on-line adjustments necessary following maintenance work, adjusting the combustors in accordance with the manufacturer's recommendations (or industry standards) or modifying the water-to-fuel ratio to affect a change in the post-combustion air emissions. Such tuning sessions are infrequent. Excess CEMS emissions data collected during tuning may be excluded from the compliance averages.

5. *Simulated Facility Black Start Testing and Facility Black Start Events*: Up to 8 hours of CEMS data indicating exceedances of emissions limits may be excluded from the compliance demonstration periods for the gas turbines when operating less than full load for extended periods in relation to simulated or actual facility black start conditions.

As provided by the authority in Rule 62-210.700(5), F.A.C., the above conditions replace the provisions in Rule 62-210.700(1), F.A.C. All valid emissions data (including data collected during startup, shutdown, malfunction, ~~and~~ tuning, and black start testing) shall be used to report annual emissions for the Annual Operating Report. The permittee shall notify the Compliance Authority within one working day of discovering any emissions in excess of a CEMS standard subject to the specified averaging period. All such reasonably preventable emissions shall be included in any CEMS compliance determinations. All valid emissions data (including data collected during startup, shutdown and malfunction) shall be used to report annual emissions for the Annual Operating Report.

No change to the rest of this condition.

[Rules 62-4.070(3), 62-210.200, 62-210.370(3) and 62-210.700(4), F.A.C.; Permit Nos. 0570040-024; 0570040-028-AC; and, Application No. 0570040-032-AC]

Continuous Emissions Monitoring

*Subsection III.B, Specific Condition **18**. Continuous Compliance: This condition is revised as follows.*

18. CEMS Continuous Compliance. The permittee shall install, calibrate, operate and maintain a CEMS to measure and record the emissions of CO and NO_X from each simple cycle combustion turbine in terms of the applicable standards. The permittee shall demonstrate continuous compliance with the 3-hour rolling average CO emissions standards and with the 4-hour rolling average NO_X emission standards based on data collected by the required CEMS. ~~Within 45 days of conducting RATA on a CEMS that represents the annual compliance test, the permittee shall submit a report to the Compliance Authority summarizing results of the RATA. If the RATA on a CEMS was not conducted as an annual compliance test, then the results can be submitted with the semiannual report.~~ Results of each RATA shall be submitted with the semiannual report. Compliance with the CO emission standards also serves as an indicator of efficient fuel combustion, which also reduces emissions of PM. Rules 62-4.070(3); 62-297.310 (7) (a) & (b); 62-204.800, F.A.C.; Permit Nos. 05700040-024-AC; 05700040-026-AC; and, Application No. (0570040-032-AC]

C. FUEL YARD ACTIVITIES

This section of the permit addresses the following emissions unit.

EU No.	Brief Description
008	Fuel Yard

PERMIT BEING MODIFIED: No. 0570040-006-AC

Description: Emission Point Summary for Fuel Yard

Emission Point Description	ID No.	Throughput TPH	Control Method	Efficiency
~~Barge to clamshell~~	~~FH-001/002~~	~~2.300~~	~~DS~~	~~95%~~
~~Barge to continuous unloader~~	~~FH-003~~	~~2.300~~	~~DS~~	~~95%~~
~~Clamshell to barge unloading hopper~~	~~FH-004/005~~	~~2.300~~	~~DS~~	~~95%~~
~~Continuous unloader to conveyor A~~	~~FH-006~~	~~2.300~~	~~**DS~~	~~95%~~
~~Barge unloading hoppers to conveyor B~~	~~FH-008/009~~	~~2.300~~	~~**DS/E~~	~~95%~~
~~Railcar to rail unloading hopper~~	~~FH-013~~	~~2.300~~	~~DS/E~~	~~95%~~
~~Rail unloading hopper to conveyor L~~	~~FH-014~~	~~2.300~~	~~**DS/E~~	~~95%~~
Fuel storage pile	FH-022/023 a & b	NA	MWS ~~DS~~	50%
Dozer operations of storage piles	FH-044	NA	MWS ~~DS~~	50%
Truck unloading - auxiliary	AH-001	400	MWS ~~DS~~	85%
Storage pile	AH-002	400	MWS ~~DS/E~~	90%
Truck dump to flux storage pile	OMH-001	NA	MWS ~~DS~~	85%
Flux storage pile maintenance	OMH-002	NA	MWS ~~DS~~	50%
Flux storage pile	OMH-003	NA	MWS ~~DS~~	50%

Notes: "MWS" means manual water suppressant. ~~"DS" means dust suppressant. "E" means enclosure~~. "NA" means not applicable. ~~The double asterisk (**) identifies the dust suppressant application point.~~

Monitoring of Operations

6. ~~Application of Dust Suppressants: Dust suppressants shall be applied to the fuel either prior to or at the time of delivery and at all emission points as specified in Table B-1 of this subsection to control fugitive particulate matter emissions and maintain an opacity of less than or equal to 5%. For the application of dust suppressants prior to delivery, the permittee shall keep monthly records of: 1) the amount of dust suppressant applied for each type and amount of coal delivered, and 2) the type of dust suppressant used (e.g., MSD sheets, product name). [Permit No. 0570040-006-AC]~~

12. Control Techniques: Manual water suppression shall be applied to the emission control points specified in Table B-1 to control fugitives emissions and maintain the opacity of less than or equal of 5%. ~~Water sprays or chemical wetting agents and stabilizers are acceptable methods to be used on coal storage piles as necessary to maintain an opacity of less than or equal to 5%. Other appropriate methods may be applied to maintain this opacity, after they are approved by the Department.~~ Facilities that cause frequent, valid complaints may be required by the Compliance Authority to take these or other reasonable precautions. In determining what constitutes reasonable precautions for a particular source, the Compliance Authority shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice. [Permit Nos. 0570040-006-AC ~~and~~, 0570040-010-AC and Applicant request 3/22/13.]

7. Proper Maintenance: All controls associated with the transfer points shall be maintained to the extent that the capture efficiencies credited will be achieved. [Rule 62-4.070(3), F.A.C.; ~~and~~ Permit No. 0570040-006-AC ~~AO29-216480~~ and, Application No. 0570040-032-AC]]

17 ~~Operation and Maintenance Plan for Particulate Matter Control~~

~~a. Process Parameters~~

~~(1) Operation Schedule: 8760 hours per year~~

~~(2) Equipment Data~~

~~- Conveyor Hoods: Corrugated Aluminum~~

~~- Transfer Point Enclosures: Carbon Steel~~

~~b. Inspection and Maintenance Procedures: If operating, the fuel yard particulate matter control equipment shall receive regular preventative maintenance as follows:~~

(1) ~~Conveyor Enclosures~~

~~(a) Daily random visual inspections of conveyor hoods.~~

~~(b) Daily random visual inspection of the transfer points chute work.~~

(2) ~~Dust Suppression System~~

~~(a) Quarterly inspection of system for water leaks.~~

~~(b) Quarterly inspection of spray nozzles.~~

~~The pumps, tanks, etc., that make-up the dust suppression system undergo normal maintenance including lubrication, flushing, and draining.~~

[Rule 62-296.700, F.A.C.; Permit No. 0570040-006-AC; and, Application No. 0570040-032-AC]

Test Methods and Procedures

9. Visible Emissions: A 30-minute visible emissions test shall be performed on ~~the following material~~ transfer operations during each federal fiscal year (October 1 - September 30) the fuel yard is operational:

~~a. The clamshell to the hopper; and~~

~~b. The railcar to the hopper.~~

The test method for visible emissions shall be determined using EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C. [Rules 62-204.800, 62-297.310(4)(a)2, 62-297.310(7)(a)4, F.A.C.; Permit No. 0570040-006-AC; and, Application No. 0570040-032-AC]

D. DIESEL ENGINES

This section of the permit addresses the following emissions units.

EU No.	Brief Description
039	Four Diesel Emergency Engines

Description

Engine	Qty.	In-Service Date	Engine Displacement	Engine Model Year	Rating	Rule Applicability
Diesel Emergency Generator (replacement)	1	08/2012	548 cu. in. (9 litre)	2012	385 bHP	NSPS Subparts A, IIII NESHAP Subpart A, ZZZZ
Diesel Emergency Fire Pump Engine	1	02/2007	358 cu. in. (5.9 litre)	2006	188 bHP	NSPS Subparts A, IIII NESHAP Subpart A, ZZZZ
Diesel Emergency Backup Generator	1	09/2008	912 cu. in. (14.9 litre)	2007	755 bHP	
Diesel Black Start Engine	1	04/2009	1943 cu. in. (31.8 litre)	2007		

New Source Performance Standards

1. NSPS Subpart A: As identified in the above table, the engines are subject to the applicable regulations in Subpart A (General Provisions) of 40 CFR 60. [Application No. 0570040-032-AC]

2. NSPS Subpart IIII: As identified in the above table, the engines are subject the applicable regulations in Subpart IIII (Stationary Compression Ignition Internal Combustion Engines) of 40 CFR 60. [Application No. 0570040-032-AC]

National Emission Standards for Hazardous Air Pollutants

3. NESHAP Subpart A: All engines identified in the above table are subject to applicable requirements in Subpart A (General Provisions) of 40 CFR 63. [Application No. 0570040-032-AC]

4. NESHAP Subpart ZZZZ: All engines identified in the above table are subject to applicable requirements in Subpart ZZZZ (Reciprocating Internal Combustion Engines) of 40 CFR 63. Pursuant to 40 CFR63.6590, these units comply with NESHAP Subpart ZZZZ by complying with 40 CFR 60, Subpart IIII. [Application No. 0570040-032-AC]