

# Florida Department of Environmental Protection

## Memorandum

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TO: Joseph Kahn, Division of Air Resource Management  
THROUGH: Trina Vielhauer, Bureau of Air Regulation  
Jeff Koerner, New Source Review Section  
FROM: Tammy McWade, New Source Review  
DATE: November 25, 2009  
SUBJECT: Title V Air Operation Permit No. 0570040-027-AV  
Tampa Electric Company  
H.L. Culbreath Bayside Power Station  
Final Title V Air Operation Permit Renewal

The final permit for this project is attached for your approval and signature.

The attached Final Determination identifies issuance of the draft/proposed Title V air operation permit and summarizes the publication process. There were no comments received from EPA in response to the draft/proposed permit.

I recommend your approval of the attached final permit for this project.

Attachments

## NOTICE OF FINAL PERMIT

*In the Matter of an  
Application for Permit by:*

Tampa Electric Company  
P.O. Box 111  
Tampa, Florida 33601-0111

Permit No. 0570040-027-AV  
H.L. Culbreath Bayside Power Station  
Title V Air Operation Permit Renewal  
Hillsborough County, Florida

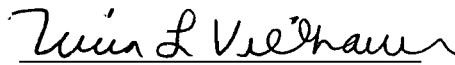
*Responsible Official:*

Frank Busot, Director, Bayside Power Station

Enclosed is the final permit package to renew the Title V air operation permit for H.L. Culbreath Bayside Power Station. The existing facility is located in Hillsborough County at 3602 Port Sutton Road in Tampa, Florida. This permit is issued pursuant to Chapter 403, Florida Statutes.

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.



Trina Vielhauer, Chief  
Bureau of Air Regulation

TLV/jk/tm

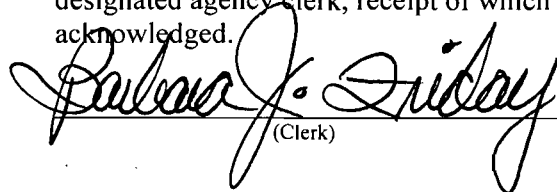
## CERTIFICATE OF SERVICE

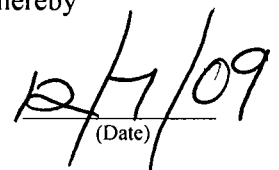
The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit and Final Determination), or a link to these documents available electronically on a publicly accessible server, was sent by electronic mail with received receipt requested to the persons listed below:

Mr. Frank Busot, TECO: ([flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com))  
Mr. Byron Burrows, TECO: ([btburrows@tecoenergy.com](mailto:btburrows@tecoenergy.com))  
Ms. Laurie Pence, TECO: ([lapence@tecoenergy.com](mailto:lapence@tecoenergy.com))  
Mr. Ben Willoughby, TECO: ([bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com))  
Ms. Cindy Zhang-Torres, DEP Southwest District Office: ([cindy.zhang-torres@dep.state.fl.us](mailto:cindy.zhang-torres@dep.state.fl.us))  
Ms. Dianna Lee, Hillsborough County EPC: ([lee@epchc.org](mailto:lee@epchc.org))  
Mr. Mike Halpin, DEP Siting Office: ([mike.halpin@dep.state.fl.us](mailto:mike.halpin@dep.state.fl.us))  
Ms. Katy Forney, U.S. EPA Region 4: ([forney.kathleen@epa.gov](mailto:forney.kathleen@epa.gov))  
Ms. Ana Oquendo, U.S. EPA Region 4: ([oquendo.ana@epa.gov](mailto:oquendo.ana@epa.gov))  
Ms. Barbara Friday, DEP BAR: ([barbara.friday@dep.state.fl.us](mailto:barbara.friday@dep.state.fl.us)) (for posting with U.S. EPA, Region 4)  
Ms. Victoria Gibson, DEP BAR: ([victoria.gibson@dep.state.fl.us](mailto:victoria.gibson@dep.state.fl.us)) (for reading file)

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.

  
(Clerk)

  
(Date)

## FINAL DETERMINATION

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### PERMITTEE

Tampa Electric Company  
P.O. Box 111  
Tampa, Florida 33601-0111

### PERMITTING AUTHORITY

Florida Department of Environmental Protection (Department)  
Division of Air Resource Management  
Bureau of Air Regulation, Title V Section  
2600 Blair Stone Road, MS #5505  
Tallahassee, Florida 32399-2400

### PROJECT

Permit No. 0570040-027-AV  
H.L. Culbreath Bayside Power Station

The purpose of this project is to renew the Title V air operation permit for the above referenced facility.

### NOTICE AND PUBLICATION

The Department distributed an Intent to Issue a Draft/Proposed Title V Air Operation Permit Renewal package on September 30, 2009. The applicant published the Public Notice of Intent to Issue a Title V Air Operation Permit Renewal in The Tampa Tribune on October 3, 2009. We notified EPA Region 4 of the publication date on October 6, 2009. The Department received the notarized proof of publication on October 9, 2009.

### COMMENTS

No comments on the draft/proposed permit were received from the EPA Region 4 Office. The applicant had minor comments on the draft/proposed permit package. The following summarizes these comments and the Department's response.

#### Applicant

On September 30, 2009, the Department received minor comments from the applicant. The following summarizes the comments and the Department's response.

- Comment:* The SCR system and CEMS monitor is existing equipment. Therefore, the word "install" in Conditions A.6 and A.14 is requested to be removed from the permit.

*Response:* The Department agrees and removed the word "install" from these conditions for the existing equipment.
- Comment:* There is a typo in the second sentence of the paragraph below the table in Condition A.15. The word "and" should be removed after "Method 320".

*Response:* The Department corrected the typographical error.
- Comment:* Conditions B.7b and B.8 require visible emissions tests and inspection and maintenance procedures in the fuel yard. Since the fuel yard is not currently in operation, the applicant requests that the words "if operating" be inserted to help clarify that such inspections and tests are not required unless operation of the fuel yard restarted.

*Response:* The Department revised the conditions as requested; however, it is still be necessary to keep records identifying whether the fuel yard is in operation.
- Other:* The draft/proposed permit identified Ms. Karen Sheffield, Director of Bayside Power Station, as the

## **FINAL DETERMINATION**

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responsible official. Prior to issuing the final permit, Mr. Frank Busot was identified as the new Director of Bayside Power Station as well as the new responsible official. The final permit was revised accordingly.

On page 8 in Subsection III.A, the Department corrected the reference from Condition "A.9" to "A.7" in the paragraph following the permitting note under the heading "Emissions Limitations and Standards".

### **CONCLUSION**

As noted above, only minor revisions were made to the draft/proposed permit. The final action of the Department is to issue the final permit with the minor changes described above.

## STATEMENT OF BASIS

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### Title V Air Operation Permit Renewal Permit No. 0570040-027-AV

#### APPLICANT

The applicant for this project is Tampa Electric Company. The applicant's responsible official and mailing address are: Frank Busot, Director, Bayside Power Station, Tampa Electric Company, P.O. Box 111, Tampa, Florida 33601-0111.

#### FACILITY DESCRIPTION

The applicant operates the H.L. Culbreath Bayside Power Station, which is located at 3602 Port Sutton Road, Tampa, Florida, 33619. 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 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 combustion turbines (169 MW each) and one common steam-electrical generator (414 MW) with a combined nominal generating capacity of 1090 MW.
- Diesel engines are used to power generators and a fire pump (EU-039).

Each combustion turbine is General Electric Model PG7241(FA) combustion turbine-electrical generator set, which 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. At a compressor inlet air temperature of 59° F and firing 1,842 million British thermal units (MMBtu) per hour of natural gas, each unit produces a nominal 169 MW of shaft-driven electricity. Heat energy is recovered from each HRSG to produce steam, which is delivered to a common header to generate additional power from the steam-electrical generator set for each combined cycle unit. Each combustion turbine is equipped with dry low-NOx (DLN) combustion technology and a selective catalytic reduction (SCR) system to reduce nitrogen oxides (NOx) emissions. Each combustion turbine is equipped with continuous emissions monitoring systems (CEMS) to measure and record carbon monoxide (CO) and NOx emissions as well as flue gas carbon dioxide content. Each combustion turbine has a single exhaust stack that is 150 feet tall and 19.0 feet in diameter. Exhaust gases exit the stack with a volumetric flow rate of approximately 1,030,000 actual cubic feet per minute (acfm) at 220° F.

Also included in this permit are miscellaneous unregulated and insignificant activities.

#### PROJECT DESCRIPTION

The purpose of this permitting project is to renew Title V air operation Permit No. 0570040-023-AV.

#### PROCESSING SCHEDULE AND RELATED DOCUMENTS

- 05/20/2009 Department received application to renew the Title V air operation permit;  
07/09/2009 Department requested additional information; and  
08/26/2009 Department received additional information.

#### PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is not identified as a major source of hazardous air pollutants (HAP).

Title IV: The combustion turbines are subject to Phase II of the acid rain provisions of the Clean Air Act.

## STATEMENT OF BASIS

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**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 major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

**NSPS:** The facility operates units subject to applicable provisions in the following New Source Performance Standards (NSPS) in Part 60 of Title 40, Code of Federal Regulations (CFR):

- Subpart A, General Provisions (EU-020 – EU-026 and EU-039);
- Subpart GG, Stationary Gas Turbines (EU-020 – EU-026); and
- Subpart IIII, Stationary Compression Ignition Internal Combustion Engines (EU-039).

**NESHAP:** The facility operates units subject to applicable provisions in the following National Emissions Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR 63:

- Subpart A, General Provisions (EU-020 – EU-026 and EU-039); and
- Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines (EU-039).

**CAIR:** The existing combustion turbines (EU-020 – EU-026) are subject to the applicable requirements of the Clean Air Interstate Rule (CAIR) in accordance with Rule 62-296.470, F.A.C.

**CAM:** Each combustion turbine is equipped with an SCR system to control NO<sub>x</sub> emissions; however, compliance is continuously demonstrated by a CEMS. There are no other add on control equipment. Therefore, a Compliance Assurance Monitoring (CAM) Plan is not required for any of the emissions units.

### **PROJECT REVIEW**

The renewal permit includes the following changes.

#### **General Permit Format**

The renewal permit is based on the Department's updated formats for a Title V air operation permit.

#### **Section I. Facility Information**

##### Subsection B. Summary of Emissions Units

- Added the diesel generator and fire pump engines to EU-039.
- Moved the following in the Appendices from the Insignificant Activities to Unregulated Activities: surface coating operations; fire and safety equipment; non-halogenated solvent storage and cleaning operations; architectural and equipment maintenance painting; and degreasing units.

##### Subsection C. Applicable Regulations

- Identified the federal NSPS and NESHAP regulations for engines that apply to Emissions Unit 039.

#### **Section III. Emissions Units and Specific Conditions**

##### Subsection A. Emissions Units 020 – 026

- Removed obsolete initial requirement to submit the manufacturer's performance curves (or equations) for the heat input rate at various loads and compressor inlet temperatures. Clarified that these records must be maintained on site.
- Added the 40 CFR Part 75 procedures as acceptable alternative methods for determining the sulfur content of natural gas.
- Added "PSD-FL-301A" as an underlying requirement for the emission standards based the performance tests.

## STATEMENT OF BASIS

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- Removed the words “designed” and “install” for existing equipment.
- Removed the requirement for initial certification of the NO<sub>x</sub> monitor since it is already installed and certified. Nevertheless, the permittee must operate and maintain the NO<sub>x</sub> monitor in accordance with the applicable requirements of 40 CFR Part 75.
- Removed the requirement for initial certification of the CO and CO<sub>2</sub> monitors since these are already installed and certified. Nevertheless, the CO<sub>2</sub> monitor must meet Performance Specification 3 in Appendix B of 40 CFR 60 and the CO monitor must meet Performance Specification 4 in Appendix B of 40 CFR 60.
- Added EPA Method 320 as an acceptable alternative method to determine the ammonia slip for these units.

### Subsection B. Emissions Unit 008

- Removed references to emissions points listed in Table B-1 that have been dismantled and permanently removed from the site.
- Removed references to equipment that have been removed from the site including: grab buckets, windshield, enclosures and wet spray systems that are associated with the transfer points; wet dust suppression equipment (Benetech); conveyors E1 and E2 and their respective stockpiles; and conveyors C, L and S and their scales.

### Subsection C. Emissions Unit 039

- This subsection was updated to include the diesel generators and fire pump engines and the applicable regulations.

### **Appendices**

- Renamed “Appendix A-1. Citation Formats” to “Appendix A. Abbreviations, Acronyms, Citations and Identification Numbers”.
- Renamed “Appendix CT. Common Compliance Test Requirements” to “Appendix TR. Facility-Wide Reporting Requirements”.
- Removed “Appendix XS. Semi-Annual Continuous Monitor Systems Report”, which was Figure 1 from NSPS Subpart A (General Provisions). This report is now included in Appendix NS with the other applicable provisions of NSPS Subpart A.
- Updated and renamed “Appendix TV-4. Title V Conditions” to “Appendix TV. Title V General Conditions”.
- Removed “Appendix AR. Phase II Acid Rain Part and Retired Unit Exemption”. Section IV (Acid Rain Part) of the permit now includes all acid rain requirements.
- Moved the following activities from “Appendix I. Insignificant Activities” to “Appendix U. Unregulated Activities”: fire and safety equipment; non-halogenated solvent storage and cleaning operations; architectural and equipment maintenance painting; and degreasing units using heavier-than-air vapors exclusively, except any such unit using or emitting any substance classified as a hazardous air pollutant.
- Added “Appendix RR. Facility-Wide Reporting Requirements” to identify generally applicable notification and reporting requirements.
- Updated the Appendix for NSPS Subpart GG for Stationary Gas Turbines.
- The following appendices have been included to identify potentially applicable federal regulations: Appendix NS, NSPS Subpart A for General Provisions; Appendix IIII, NSPS Subpart IIII for Stationary Compression Ignition Internal Combustion Engines; Appendix NE, NESHAP Subpart A for General Provisions; and Appendix ZZZZ, NESHAP Subpart ZZZZ for Stationary Reciprocating Internal Combustion Engines.

## STATEMENT OF BASIS

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### Attachments

- Updated Table 1 (Summary of Air Pollutant Standards and Terms) and Table 2 (Summary of Compliance Requirements).

### Other Changes Requested by Applicant

- As part of the original application, the applicant requested significant changes to Condition A.11 in Permit No. 0570040-023-AV, which specifies requirements for data exclusion for excess emissions due to startups, shutdowns and malfunctions. In the initial request for additional information, the Department notified the applicant that changes would require a modification of the underlying air construction permit and supporting documentation. The applicant's response did not include enough information to process this request.
- On September 1, 2009, the applicant submitted a letter requesting inclusion of applicable requirements from Permit No. 0570040-026-AC, which authorized construction of eight new simple cycle combustion turbines. However, the applicant did not provide the application forms necessary to process this request.
- On September 18, 2009, the Department called the application contact and explained that it would process the Title V renewal permit for the existing units. The applicant will need to submit the appropriate applications to revise the Title V permit to incorporate the applicable requirements from Permit No. 0570040-026-AC for the new units along with a concurrent air construction permit revision to modify the conditions related to data exclusion for excess emissions from Units 1 and 2 due to startups, shutdowns and malfunctions. This will allow the renewal permit to be processed and issued prior to January 1, 2010 so that the Title V and Title IV parts of the permit will remain consistent.
- On September 23, 2009, the Department sent a letter to the applicant summarizing this discussion.

### CONCLUSION

This project renews Title V Air Operation Permit No. 0570040-023-AV, which was issued on December 28, 2004. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C. In accordance with the terms and conditions of this permit, the above named permittee is hereby authorized to operate the facility as shown on the application and approved drawings, plans, and other documents, on file with the permitting authority.



Tampa Electric Company  
H.L. Culbreath Bayside Power Station  
Facility ID No. 0570040-027-AV  
Hillsborough County

**Final Title V Air Operation Permit Renewal**

Permit No. 0570040-027-AV  
(Renewal of Title V Air Operation Permit No. 0570040-023-AV)



**Permitting Authority:**

State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation  
Title V Section  
2600 Blair Stone Road  
Mail Station #5505  
Tallahassee, Florida 32399-2400  
Telephone: (850) 488-0114  
Fax: (850) 921-9533

**Compliance Authority:**

Environmental Protection Commission of Hillsborough County  
Air Management  
3629 Queen Palm Drive  
Tampa, Florida 33619  
Telephone: 813/627-2600  
Fax: 813/627-2660

**Title V Air Operation Permit Renewal  
Permit No. 0570040-027-AV**

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# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

**PERMITTEE:**

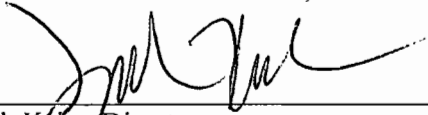
Tampa Electric Company  
P.O. Box 111  
Tampa, Florida 33601-0111

Permit No. 0570040-027-AV  
H.L. Culbreath Bayside Power Station  
Facility ID No. 0570040  
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit for the above referenced facility. The existing H.L. Culbreath Bayside Power Station 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. Latitude is: 28° 02' 31" North; and, Longitude is: 82° 25' 31" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: January 1, 2010  
Renewal Application Due Date: May 20, 2014  
Expiration Date: December 31, 2014

  
\_\_\_\_\_  
Joseph Kahn, Director  
Division of Air Resource Management

JK/tlv/jfk/ttm

**SECTION I. FACILITY INFORMATION.**

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**Subsection A. Facility Description.**

The H. L. Culbreath Bayside Power Station is an electric power plant consisting of combined cycle Units 1 and 2. Unit 1 (EU 020 – 022) is a “3-on-1” combined cycle combustion turbine system with a nominal generating capacity of 746 MW, which consists of three combustion turbines (169 megawatt (MW) each) and one steam-electrical generator (239 MW). Unit 2 (EU 023 – 026) is a “4-on-1” combined cycle combustion turbine system with a nominal generating capacity of 1090 MW, which consists of four combustion turbines (169 MW each) and one steam-electrical generator (414 MW). These units fire natural gas as the exclusive fuel and employ selective catalytic reduction (SCR) to reduce emissions of nitrogen oxides.

Based on the application to renew the Title V air operation permit received on May 20, 2009:

**Title III:** The facility is not identified as a major source of hazardous air pollutants (HAP).

**Title IV:** The combustion turbines are subject to Phase II of 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 major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

**NESHAP:** The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) in Part 63, Title 40, Code of Federal Regulations (CFR).

**NSPS:** The facility operates units subject to the New Source Performance Standards (NSPS) in Part 60, Title 40, CFR.

**Subsection B. Summary of Emissions Units.**

<b>EU No.</b>	<b>Brief Description</b>
<i>Regulated Emissions Units</i>	
008	F. J. Gannon Station Fuel Yard
Bayside Unit 1 - Three combined cycle gas turbines with one steam-electrical generator (746 MW, total)	
020	CT-1A – Combined cycle gas turbine (169 MW, shaft)
021	CT-1B – Combined cycle gas turbine (169 MW, shaft)
022	CT-1C – Combined cycle gas turbine (169 MW, shaft)
Bayside Unit 2 - Four combined cycle gas turbines with one steam-electrical generator (1090 MW, total)	
023	CT-2A – Combined cycle gas turbine (169 MW, shaft)
024	CT-2B – Combined cycle gas turbine (169 MW, shaft)
025	CT-2C – Combined cycle gas turbine (169 MW, shaft)
026	CT-2D – Combined cycle gas turbine (169 MW, shaft)
039	Diesel Generator and Fire Pump Engines

Other than the fuel yard identified above, the F. J. Gannon Units 1 - 6 and other emissions units associated with the coal-fired boilers have been permanently shut down, dismantled and removed from the site (EU- 001 through EU-007 and EU-009 through EU-019). This facility also includes other miscellaneous insignificant emissions units and activities. Please reference the permit number, facility identification number, and the corresponding emissions unit identification numbers on all correspondence, test submittals, applications, etc.

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**SECTION I. FACILITY INFORMATION.**

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**Subsection C. Applicable Regulations.**

Based on the Title V Air Operation Renewal application received May 20, 2009, this facility is NOT a major source of hazardous air pollutants (HAPs). A summary of applicable regulations is shown in the following table.

<b>Regulation</b>	<b>EU Nos.</b>
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A: NSPS General Provisions	020-026, 039
40 CFR 60, Subpart GG: Standards of Performance for Stationary gas Turbines	020-026
40 CFR 60, Subpart IIII: NSPS Stationary Compression Ignition Internal Combustion Engines	039
40 CFR 63, Subpart A: NESHAP General Provisions	039
40 CFR 63, Subpart ZZZZ: NESHAP Reciprocating Internal Combustion Engines	039
40 CFR 72: Acid Rain Program Permit Regulations	020-026
40 CFR 75: Acid Rain Program Continuous Emissions Monitoring	020-026
40 CFR 77: Acid Rain Program Excess Emissions	020-026
40 CFR 78: Acid Rain Program Appeal Procedures	020-026
40 CFR 96: Clean Air Interstate Rule	020-026
<i>State Rule Citations</i>	
Rule 62-204.800, F.A.C.: Federal Regulations Adopted by Reference	020-026
Rule 62-212.400, F.A.C.: Prevention of Significant Deterioration (PSD) of Air Quality	020-026
Rule 62-213.413, F.A.C.: Fast-Track Revisions of Acid Rain Parts.	020-026
Chapter 62-214, F.A.C.: Requirements For Sources Subject To The Federal Acid Rain Program	020-026
Rule 62-296.470, F.A.C.: Implementation of Federal Clean Air Interstate Rule	020-026
Rule 62-296.700, F.A.C.: Reasonably Available Control Technology (RACT) for PM	008
Rule 62.296.711, F.A.C.: Materials Handling, Sizing, Screening, Crushing, and Grinding Operations	008

## SECTION II. FACILITY-WIDE CONDITIONS.

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**The following conditions apply facility-wide to all emission units and activities:**

**FW1. Appendices.** The permittee shall comply with all documents identified in Section VI, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

### **Emissions and Controls**

**FW2. Not federally enforceable. Objectionable Odor Prohibited.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

**FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. Nothing is deemed necessary and ordered at this time. [Rule 62-296.320(1), F.A.C.]

**FW4. General Visible Emissions.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

**FW5. Unconfined Particulate Matter.** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- Chemical or water application to unpaved roads and unpaved yard areas.
- Paving and maintenance of roads, parking areas, and yards.
- Landscaping or planting of vegetation.
- Confining abrasive blasting where possible.
- Other techniques, as necessary.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in Title V air operation permit renewal application received May 20, 2009.]

### **Annual Reports and Fees**

See Appendix RR, Facility-wide Reporting Requirements for additional details.

**FW6. Annual Operating Report.** The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1<sup>st</sup> of each year. [Rule 62-210.370(3), F.A.C.]

**FW7. Annual Emissions Fee Form and Fee.** The annual Title V emissions fees are due (postmarked) by March 1<sup>st</sup> of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/Air/permitting/tvfee.htm>. [Rule 62-213.205, F.A.C.]

**FW8. Annual Statement of Compliance.** The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

## SECTION II. FACILITY-WIDE CONDITIONS.

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### **FW9.** Prevention of Accidental Releases (Section 112(r) of CAA).

- a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center.
- b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Department of Community Affairs (DCA), as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.
- c. The owner or operator shall submit the required annual registration fee to the DCA on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.
- d. Any required written reports, notifications, certifications, and data required to be sent to the DCA, should be sent to: Department of Community Affairs, Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: 850/413-9921, Fax: 850/488-1739.
- e. Any Risk Management Plans, original submittals, revisions, or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: 703/227-7650.

Any required reports to be sent to the National Response Center, should be sent to: National Response Center, EPA Office of Solid Waste and Emergency Response, USEPA (5305 W), 401 M Street SW, Washington, D.C. 20460, Telephone: (800) 424-8802.

Send the required annual registration fee using approved forms made payable to: Cashier, Department of Community Affairs, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149.

[Part IV, Chapter 252, F.S.; and, Rule 9G-21, F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)**

The specific conditions in this section apply to the following emissions units:

EU No.	Bayside Combustion Turbines (CT)			Steam Turbines (ST)		Total
	Unit No.	CT No.	MW, Shaft	ST Unit No.	MW, Steam	
020	Combined Cycle Unit No. 1	CT-1A	169 MW	No. 5	239	746
021		CT-1B	169 MW			
022		CT-1C	169 MW			
023	Combined Cycle Unit No. 2	CT-2A	169 MW	No. 6	414	1090
024		CT-2B	169 MW			
025		CT-2C	169 MW			
026		CT-2D	169 MW			
Totals	2 Combined Cycle Units	7 GTs	1183 MW	2 STs	653	1836

Bayside Unit 1 (EU 020 – 022) is a “3-on-1” combined cycle combustion turbine system consisting of three combustion turbines (169 megawatt (MW) each) and one common steam-electrical generator (239 MW) with a combined nominal generating capacity of 746 MW. Bayside Unit 2 (EU 023 – 026) is a “4-on-1” combined cycle combustion turbine system consisting of four combustion turbines (169 MW each) and one common steam-electrical generator (414 MW) with a combined nominal generating capacity of 1090 MW. The nameplate generating capacity is identified for the steam turbine-electrical generators. The final design may not fully utilize the nameplate generating capacity.

Each combustion turbine is General Electric Model PG7241(FA) combustion turbine-electrical generator set, which 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. At a compressor inlet air temperature of 59° F and firing 1,842 million British thermal units (MMBtu) per hour of natural gas, each unit produces a nominal 169 MW of shaft-driven electricity. Heat energy is recovered from each HRSG to produce steam, which is delivered to a common header to generate additional power from the steam-electrical generator set for each combined cycle unit. Each combustion turbine is equipped with dry low-NO<sub>x</sub> (DLN) combustion technology and a selective catalytic reduction (SCR) system to reduce nitrogen oxides (NO<sub>x</sub>) emissions. Each combustion turbine is equipped with continuous emissions monitoring systems (CEMS) to measure and record carbon monoxide (CO) and NO<sub>x</sub> emissions as well as flue gas carbon dioxide content. Each combustion turbine has a single exhaust stack that is 150 feet tall and 19.0 feet in diameter. Exhaust gases exit the stack with a volumetric flow rate of approximately 1,030,000 actual cubic feet per minute (acfm) at 220° F.

**CAM Plan:** Although an SCR system is required to achieve the NO<sub>x</sub> standard, a Compliance Assurance Monitoring (CAM) Plan is not required because compliance is continuously demonstrated by CEMS.

*{Permitting Notes: These emissions units are regulated under: NSPS Subpart GG for Stationary Gas Turbines in 40 CFR 60 adopted and incorporated by reference in Rule 62-204.800, F.A.C.; Rule 212.400, F.A.C. for the Prevention of Significant Deterioration (PSD), which required Best Available Control Technology (BACT) determinations as specified in Permit No. PSD-FL-301 (as modified) for carbon monoxide (CO), particulate matter (PM/PM<sub>10</sub>), and volatile organic compounds (VOC); Chapter 62-214, F.A.C., the Phase II Acid Rain Program as specified in Section IV of this permit; and Rule 62-296.470, F.A.C., the Clean Air Interstate Rule as specified in Section V of this permit.}*



## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)

#### **Essential Potential to Emit (PTE) Parameters**

- A.1. Permitted 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 heat input rate 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; Rules 62-4.160(2), 62-210.200(PTE), and 62-212.400(BACT), F.A.C.]
- A.2. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]
- A.3. Methods of Operation.**
- 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 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; Rules 62-210.200(PTE) and 62-213.410, F.A.C.; DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree]
  - Operating Procedures.*** The Best Available Control Technology (BACT) determinations established by this permit rely on "good operating practices" to minimize emissions. Therefore, all operators and supervisors shall be properly trained to operate and maintain the gas turbines and pollution control systems in accordance with the guidelines and procedures established by the manufacturer. The training shall include good operating practices as well as methods to minimize emissions during startup and shutdown. [Permit No. PSD-FL-301A; Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]
- A.4. Hours of Operation.** These emissions units may operate continuously (8760 hours/year). [Rule 62-210.200(PTE), F.A.C., Permit No. PSD-FL-301A]

#### **Control Technology**

- A.5. DLN Combustion Technology.** The permittee shall tune, operate and maintain the General Electric dry low-NOx combustion system (DLN 2.6 or better) to provide efficient lean premix combustion. Each system shall be maintained and tuned in accordance with the manufacturer's recommendations. [Permit No. PSD-FL-301A; Rule 62-212.400(BACT), F.A.C.]
- A.6. SCR System.** The permittee shall tune, operate and maintain a selective catalytic reduction (SCR) system to reduce NOx emissions from each combined cycle gas turbine. The SCR system shall consist of an ammonia injection grid, catalyst, ammonia storage, a monitoring and control system, electrical system, piping, and other ancillary equipment. The SCR system shall be designed to reduce NOx emissions while minimizing ammonia slip within the permitted levels. *{Permitting Note: In general, the SCR system is placed in service once the exhaust gas temperature reaches 446° F.}* [Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree; Rule 62-4.070(3), F.A.C.]

#### **Emission Limitations and Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)

Unless otherwise specified, the averaging times for Specific Condition A.7 are based on the specified averaging time of the applicable test method.

**A.7. Emissions Standards Based on Performance Tests:** The following standards apply to each combined cycle gas turbine as determined by emissions performance tests conducted at permitted capacity. The mass emission limits are based on a compressor inlet temperature of 59° F. The permittee shall maintain on site the manufacturer's performance curves (or equations) that correct for site conditions. Operating data shall be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department.

- a. *Ammonia Slip.* Subject to the requirements of Condition A.18 in this section, each SCR system shall be designed and operated for an ammonia slip target of less than 5 ppmvd corrected to 15% oxygen based on the average of three test runs. [Rule 62-4.070(3), F.A.C. and PSD-FL-301A]
- b. *Carbon Monoxide (CO).* CO emissions shall not exceed 28.7 pounds per hour and 7.8 ppmvd corrected to 15% oxygen based on the average of three test runs as determined by EPA Method 10. [Rule 62-212.400(BACT), F.A.C. and PSD-FL-301A]
- c. *Nitrogen Oxides (NOx).* NOx emissions shall not exceed 23.1 pounds per hour and 3.5 ppmvd corrected to 15% oxygen based on the average of three test runs as determined by EPA Method 7E. NOx emissions are defined as oxides of nitrogen reported as NO<sub>2</sub>. [DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree; and PSD-FL-301A]
- d. *Particulate Matter (PM/PM<sub>10</sub>).* The exclusive firing of pipeline-quality natural gas combined with the efficient combustion design and operation of each gas turbine represent the Best Available Control Technology (BACT) requirements for particulate matter emissions. Compliance with carbon monoxide and visible emissions standards shall serve as continuous indicators of efficient combustion to minimize particulate matter emissions. No performance tests are required. [Rule 62-212.400(BACT), F.A.C. and PSD-FL-301A]
- e. *Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO<sub>2</sub>).* The exclusive firing of pipeline-quality natural gas effectively limits potential emissions of SO<sub>2</sub> and SAM. No performance tests are required. [Design; DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree; and PSD-FL-301A]
- f. *Visible Emissions.* Visible emissions shall not exceed 10% opacity, based on a 6-minute average as determined by EPA Method 9. Except as allowed by Condition A.10 of this section, this standard applies to all loads. [Rule 62-212.400(BACT), F.A.C. and PSD-FL-301A]
- g. *Volatile Organic Compounds (VOC).* The exclusive firing of pipeline-quality natural gas combined with the efficient combustion design and operation of each gas turbine represent the Best Available Control Technology (BACT) requirements for VOC emissions. Compliance with carbon monoxide standards shall serve as a continuous indicator of efficient combustion to minimize VOC emissions. No performance tests are required. [PSD-FL-301A and Rule 62-212.400(BACT), F.A.C.]

**A.8. Emissions Standards Based on CEMS Data:** The following standards apply to each gas turbine based on data collected from each required Continuous Emissions Monitoring System (CEMS).

- a. *Carbon Monoxide (CO):* CO emissions shall not exceed 9.0 ppmvd corrected to 15% oxygen based on a 24-hour block average of CEMS data.
- b. *Nitrogen Oxides (NOx):* NOx emissions shall not exceed 3.5 ppmvd corrected to 15% oxygen based on a 24-hour block average of CEMS data.

Each 24-hour block average shall start at midnight each operating day and shall be calculated from 24 consecutive 1-hour averages. If a unit operates less than 24 hours during the block, the 24-hour block average shall be the average of the available valid 1-hour averages. [Permit No. PSD-FL-301A; Rules 62-

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## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)

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212.400(BACT) and 62-4.070(3), F.A.C.]

#### Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- A.9. Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction, shall be prohibited. All such preventable emissions shall be included in the compliance averages determined from the CO and NO<sub>x</sub> CEMS data. [Permit No. PSD-FL-301A and Rule 62-210.700(4), F.A.C.]
- A.10. Alternate Standards and CEMS Data Exclusion:** The following permit conditions establish alternate standards or allow the exclusion of monitoring data for specifically defined periods of startup, shutdown, and malfunction. These conditions apply only if operators employ the best operational practices to minimize the amount and duration of emissions during such incidents.
- a. *Opacity During Startup and Shutdown.* During startup and shutdown, the opacity of the exhaust gases shall not exceed 10%, except for up to ten 6-minute averaging periods in a calendar day during which the opacity shall not exceed 20%. Data for each 6-minute averaging period shall be exclusive from other 6-minute averaging periods.
  - b. *Low Load Operation.* Excluding startup, shutdown, malfunction, DLN tuning, compressor blade drying, and over speed trip tests, each gas turbine may operate below 50% base load providing: the gas turbine is firing natural gas and operating in full dry low-NO<sub>x</sub> combustion mode; the CO and NO<sub>x</sub> CEMS are functioning properly during such periods and recording valid emissions data within the span range of the monitors; and the gas turbine remains in compliance with the CO and NO<sub>x</sub> emissions standards (24-hour block averages).
  - c. *CEMS Data Exclusion.* For the following specified operational periods, CO and NO<sub>x</sub> emissions data may be excluded from the 24-hour block compliance averages in accordance with the corresponding requirements.
    - (1) *Definitions:* Rule 62-210.200, F.A.C. "shutdown" is defined as the cessation of the operation of an emissions unit for any purpose. "Malfunction" is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner. "Startup" is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.
    - (2) *Standard Startups, Shutdowns, and Malfunctions.* For each gas turbine, no more than four 1-hour CEMS emission averages shall be excluded from any 24-hour block compliance average due to standard startups, shutdowns, and malfunctions (total).
    - (3) *Cold Steam Turbine Startup.* "Cold steam turbine startup" means a startup after the steam turbine has been offline for 24 hours or more, or the first stage turbine metal temperature is 250° F or less. To minimize emissions, no more than one gas turbine per Bayside Unit shall be operated during a cold steam turbine startup. No more than sixteen 1-hour CEMS emission averages shall be excluded from the 24-hour block compliance averages due to a cold steam turbine startup. In addition, no more than sixteen 1-hour CEMS emission averages shall be excluded from any 24-hour block compliance average due to cold steam turbine startup. In the event of a cold steam turbine startup and standard startups, shutdowns and/or malfunctions within the same 24 hour period, a total of sixteen 1-hour CEMS emissions averages may be excluded with no more than four of those

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)

sixteen 1-hour CEMS emissions averages being excluded due to standard startups, shutdowns, and malfunctions (total). This condition applies only to the gas turbine being used for the cold steam turbine startup. The permittee shall notify the Compliance Authority no later than 24 hours after beginning a cold steam turbine startup. Notification may be by phone, facsimile, email, or letter.

- (4) *Steam Turbine Startup Following an Unplanned Forced Outage.* “Steam turbine startup following unplanned, forced outage” means startup when the first stage turbine metal temperature is 250° F or more and occurs within 24 hours after either (1) the steam turbine inadvertently trips offline, or (2) the plant is forced to take the steam turbine offline for repair. To minimize emissions, no more than one gas turbine per Bayside Unit shall be operated during a steam turbine startup following an unplanned forced outage. No more than eight 1-hour CEMS emissions averages shall be excluded from the 24-hour block compliance averages due to a steam turbine startup following an unplanned forced outage. In addition, no more than eight 1-hour CEMS emission averages shall be excluded from any 24-hour block compliance average due to steam turbine startups following an unplanned forced outage. In the event of a startup following an unplanned forced outage and standard startups, shutdowns and/or malfunctions within the same 24 hour period, a total of eight 1-hour CEMS emissions averages may be excluded with no more than four of those eight 1-hour CEMS emissions averages being excluded due to standard startups, shutdowns, and malfunctions (total). This condition applies only to the gas turbine being used for steam turbine startup following an unplanned forced outage. The permittee shall notify the Compliance Authority no later than 24 hours after beginning a steam turbine startup following an unplanned forced outage. Notification may be by phone, facsimile, email, or letter and shall include the reason for the unplanned forced outage.
- (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. Emissions data collected during DLN tuning may be excluded from the 24-hour block compliance averages. *{Permitting Note: For example, a major tuning session would occur after combustor change-out.}*
- (6) *Compressor Blade Drying.* Following a compressor blade wash in accordance with the manufacturer’s recommendations, the permittee may operate a gas turbine at very low loads to heat and dry the compressor blades. Emissions data collected while drying the compressor blades may be excluded from the 24-hour block compliance averages. *{Permitting Note: A gas turbine would typically operate at approximately 10% of base load or less to perform compressor blade drying.}*
- (7) *Over Speed Trip Test.* As a periodic maintenance practice, the permittee may perform over speed trip tests in accordance with the manufacturer’s recommendations. Emissions data collected while conducting over speed trip tests may be excluded from the 24-hour block compliance averages. *{Permitting Note: During this test, the gas turbine is operated at full speed, no load (FSNL) for approximately 5 to 6 hours. The unit is gradually accelerated to 110% speed (3960 rpm) to initiate a trip and then coasts down normally. Over speed trip tests are typically performed after a long outage or a major component overhaul.}*

To the extent practicable, the permittee shall minimize the amount and duration of emissions during periods of startup, shutdown, malfunction, DLN tuning, compressor blade drying, and over speed trip testing. If a CEMS reports emissions in excess of an emissions standard (24-hour block), the permittee shall notify the Compliance Authority within one working day with a preliminary report of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Compliance Authority may request a written summary report of the incident. All emissions data allowed for exclusion shall be summarized in the Semiannual CEMS Report required in Condition A.20 of this subsection.

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## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)

- d. *Startup and Shutdown Plan.* The permittee shall maintain on site a “Startup and Shutdown Plan” that describes procedures for startup and shutdown of the Bayside Units.

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.

*{Permitting Note: The durations for a cold steam turbine startup and a steam turbine startup following an unplanned forced outage are not typical for combined cycle units. The Bayside Units utilize the existing Gannon steam turbines. Operating procedures require one gas turbine to operate at low loads for extended periods to gradually warm the main and hot reheat steam lines to the steam turbine as well as the steam turbine. Some steam lines are in excess of 1700 feet. Such startups are expected to occur infrequently.}* [Design; Rules 62-4.130, 62-210.700(5), and 62-212.400 (BACT), F.A.C.; Permit No. PSD-FL-301B]

- A.11. Excess Emissions - Notification:** In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

#### **Monitoring of Operations**

- A.12. Monitoring of Operations:** To demonstrate compliance with the gas turbine capacity requirements, the permittee shall monitor and record the operating rate of each gas turbine on a daily average basis, considering the number of hours of operation during each day (including the times of startup, shutdown and malfunction). Such monitoring shall be made using a monitoring component of the CEMS required above, or by monitoring daily rates of consumption and heat content of natural gas in accordance with the provisions of 40 CFR 75 Appendix D. [Permit No. PSD-FL-301A; Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

- A.13. Ammonia Monitoring Requirements:** The permittee shall calibrate, maintain and operate, in accordance with the manufacturer’s specifications, an ammonia flow meter to measure and record the ammonia injection rate through each SCR system. The permittee shall document the general range of ammonia flow rates required to meet emissions limitations over the range of gas turbine load conditions allowed in this permit by comparing NO<sub>x</sub> emissions recorded by the NO<sub>x</sub> monitor with ammonia flow rates recorded using the ammonia flow meter. During NO<sub>x</sub> monitor downtimes or malfunctions, the permittee shall operate at the ammonia flow rate that is consistent with the documented flow rate for the gas turbine load. [Permit No. PSD-FL-301A; Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

#### **Continuous Monitoring Requirements**

- A.14. Continuous Emissions Monitoring Systems:** The permittee shall 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<sub>x</sub> in a manner sufficient to demonstrate compliance with the CEMS emission standards of this permit. The carbon dioxide (CO<sub>2</sub>) content of the flue gas shall also be monitored at the location where CO and NO<sub>x</sub> 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<sub>2</sub> content of the flue gas and an F-factor that is appropriate for natural gas.
- a. *Emission Averages.* Compliance with the 24-hour standards for CO and NO<sub>x</sub> emissions shall be based on data collected by the required CEMS. The 24-hour block shall start at midnight of each operating day and consist of 24 consecutive 1-hour blocks. If a unit operates continuously throughout the day, the 24-hour block average shall be the average of 24 consecutive 1-hour emission averages. If a unit operates less than 24 hours during the day, the 24-hour block average shall be the average of available valid 1-hour emission averages collected during operation. If monitoring data is authorized for exclusion (due to startup, shutdown, malfunction, or tuning), the 24-hour block average shall be the average of the

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)

remaining available valid 1-hour emission averages collected during operation. Upon a request from the Compliance Authority, the NO<sub>x</sub> emission rate shall be corrected to ISO conditions to demonstrate compliance with the applicable standards of 40 CFR 60.332.

- b. *Data Collection.* The CEMS shall be operated to sample, analyze, and record CO, CO<sub>2</sub>, and NO<sub>x</sub> data evenly spaced over the hour. Each 1-hour emission average shall be computed using at least one data point in each fifteen minute quadrant of the 1-hour block during which the unit combusted fuel. Notwithstanding this requirement, each 1-hour emission average shall be computed from at least two data points separated by a minimum of 15 minutes. If the unit does not operate in more than one quadrant of a 1-hour block, the data is insufficient to determine a 1-hour emission average and shall be ignored. (Example: Unit begins startup with only ten minutes remaining in the 1-hour block. Data is insufficient to determine a 1-hour average and is ignored.) All valid measurements or data points collected during a 1-hour block shall be used to calculate the 1-hour emission averages. If the CEMS measures concentration on a wet basis, the CEMS 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, a curve of the flue gas moisture content versus load may be developed through manual stack test measurements and used in an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). The CO and NO<sub>x</sub> CEMS shall express the 1-hour emission averages and the 24-hour block averages in terms of “ppmvd corrected to 15% oxygen”.
- c. *Data Exclusion.* CO, CO<sub>2</sub>, and NO<sub>x</sub> emissions data shall be recorded by the CEMS at all times including episodes of startup, shutdown, malfunction, and tuning. CO and NO<sub>x</sub> emissions data recorded during such episodes may be excluded from the 24-hour block compliance averages in accordance with the requirements of Condition A.10 of this section. All periods of data excluded due to startup, shutdown or malfunction shall be consecutive for each episode. The permittee shall minimize the duration of data excluded for startup, shutdown and malfunctions, to the extent practicable. Data recorded during startup, shutdown or malfunction shall not be excluded if the episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented. Best operational practices shall be used to minimize hourly emissions that occur during startup, shutdown and malfunction. Emissions of any quantity or duration that occur entirely or in part from poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented, shall be prohibited. Excluded emissions shall be summarized in the required semiannual report.
- d. *NO<sub>x</sub> Certification.* The NO<sub>x</sub> monitor shall be operated 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<sub>x</sub> monitor shall be performed using EPA Method 7E or 20 as defined in Appendix A of 40 CFR 60. The span for the NO<sub>x</sub> monitor shall not be greater than 10 ppmvd corrected to 15% O<sub>2</sub>. A dual span monitor may be used.
- e. *CO and CO<sub>2</sub> Certification.* The CO<sub>2</sub> monitor shall meet Performance Specification 3 in Appendix B of 40 CFR 60. The CO monitor shall meet Performance Specification 4 in Appendix B of 40 CFR 60. Quality assurance procedures for each 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<sub>2</sub> 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 ppm corrected to 15% oxygen. A dual span CO monitor may be used.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)**

- f. *Monitor Availability.* Monitor availability shall not be less than 95% in any calendar quarter. The Data Assessment Report required by Section 7 in Appendix F of 40 CFR 60 shall be used to demonstrate monitor availability. 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.

{Permitting Note: Compliance with these requirements will ensure compliance with the other applicable CEMS requirements such as: NSPS Subpart 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; and 40 CFR 60, Appendix F - Quality Assurance Procedures.}

[Permit No. PSD-FL-301A; Rules 62-4.070(3), 62-210.700(5), and 62-212.400(BACT), F.A.C.]

**Test Methods and Procedures**

- A.15. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
320	<i>Measurement of Vapor Phase Organic and Inorganic Emissions by Extractive Fourier Transform Infrared (FTIR) Spectroscopy</i>
CTM-027	<i>Procedure for Collection and Analysis of Ammonia in Stationary Source:</i> This is an EPA conditional test method. The minimum detection limit shall be 1 ppm.
5	<i>Determination of Particulate Matter Emissions from Stationary Sources:</i> The minimum sampling time shall be two hours per run and the minimum sampling volume shall be 60 dscf per run.
7E	<i>Determination of Nitrogen Oxide Emissions from Stationary Sources</i>
9	<i>Visual Determination of the Opacity of Emissions from Stationary Sources</i>
10	<i>Determination of Carbon Monoxide Emissions from Stationary Sources:</i> The method shall use a continuous sampling train.
18	<i>Measurement of Gaseous Organic Compound Emissions by Gas Chromatography:</i> EPA Method 18 may be used concurrently with EPA Method 25A to deduct emissions of methane and ethane from the measured VOC emissions.
20	<i>Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines</i>
25A	<i>Determination of Volatile Organic Concentrations</i>

Except for Method 320 and Method CTM-027, the above methods are described in Appendix A of 40 CFR 60, which is adopted by reference in Rule 62-204.800, F.A.C. Method 320 is described in Appendix A of 40 CFR 63, which is adopted by reference in Rule 62-204.800, F.A.C. Method CTM-027 is published on EPA's Technology Transfer Network Web Site at "<http://www.epa.gov/ttn/emc/ctm.html>". Although no specific tests are required for emissions of particulate matter and volatile organic compounds, the test methods are included for completeness. No other methods may be used for compliance testing unless prior written approval is received from the Department. [Permit No. PSD-FL-301A; Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A]

- A.16. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

- A.17. Annual Compliance Tests.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each gas turbine shall be tested to demonstrate compliance with the emission standards for ammonia slip and visible emissions. The test results for ammonia slip shall also report the CO and NOx emissions recorded by the

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. COMBUSTION TURBINES (EU-020 to EU-026)**

CEMS during each test run. {Permitting Note: Continuous compliance with the CO and NOx standards will be demonstrated with certified CEMS data.} [Permit No. PSD-FL-301A; Rules 62-212.400(BACT) and 62-297.310(7)(a)4, F.A.C.]

- A.18. 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. Begin testing and reporting the ammonia slip for each subsequent calendar quarter;
  - b. 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
  - c. Test and demonstrate that the ammonia slip is less 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 less than 5 ppmvd corrected to 15% oxygen, testing and reporting shall resume on an annual basis. [Permit No. PSD-FL-301A; Rules 62-4.070(3) and 62-297.310(7)(b), F.A.C.]

- A.19. Compliance Testing Requirements:** Appendix TR of this permit identifies other compliance testing requirements commonly applicable to the emissions units in this subsection. [Rule 62-297.310, F.A.C.]

**Recordkeeping and Reporting Requirements**

- A.20. 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 30<sup>th</sup> of each year. A report covering operations from July through December shall be submitted by January 30<sup>th</sup> of each year. The report due dates may be modified by the Title V permit. [Permit No. PSD-FL-301A; Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

- A.21. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Conditions
Data Assessment Report for Quality Assurance for each CO and CO <sub>2</sub> Monitor	Done each calendar quarter and reported semi-annually to the Compliance Authority	A.14.
Corrective Action Report for Monitor Availability for each CO, CO <sub>2</sub> and NO <sub>x</sub> Monitor	If monitor availability is less than 95% in any calendar quarter, provide report to Compliance Authority identifying the problems and a plan of corrective actions.	A.14.
Semiannual CEMS Report for each CO and NO <sub>x</sub> Monitor	July 30 <sup>th</sup> (for January through June), and January 30 <sup>th</sup> (July through December)	A.20

{Permitting Note: See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.}



**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection B. Fuel Yard (EU-008)**

The specific conditions in this section apply to the following emissions unit.

EU No.	Brief Description
008	Fuel Yard

Activities related to the existing fuel yard include: barge unloading of coal (clamshell and continuous); railcar unloading of coal; truck, barge, and train unloading of flux; and the transfer and storage of these materials. The following table identifies the emissions points and particulate matter control equipment information.

Table B-1. 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	DS	50%
Dozer operations of storage piles	FH-044	NA	DS	50%
Truck unloading - auxiliary	AH-001	400	DS	85%
Storage pile	AH-002	400	DS/E	90%
Truck dump to flux storage pile	OMH-001	NA	DS	85%
Flux storage pile maintenance	OMH-002	NA	DS	50%
Flux storage pile	OMH-003	NA	DS	50%

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

*{Permitting Note: The above activities are regulated under the following: Rule 62-296.711, F.A.C. (Materials Handling, Sizing, Screening, Crushing and Grinding Operation); and Rule 62-296.700, F.A.C. (Reasonably Available Control Technology (RACT) for Particulate Matter). The existing fuel yard equipment previously served F. J. Gannon Station Units 1 through 6; however, the coal-fired boilers are permanently shut down.}*

**Essential Potential to Emit (PTE) Parameters**

**B.1. Permitted Capacity:** Coal throughput for this facility shall not exceed 2.85 million tons in any 12 consecutive months. [Rules 62-4.160(2), 62-210.200 (PTE), and 62-212.400(2)(a)2, F.A.C.; Permit No. 0570040-006-AC]

**B.2. Hours of Operation.** This emissions unit is allowed to operate continuously (8760 hours per year). [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

**Control Technology**

**B.3. Control Techniques:** 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

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Fuel Yard (EU-008)

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]

- B.4. 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]

#### **Emission Limitations and Standards**

- B.5. Visible Emissions.** Visible emissions generated by fugitive or unconfined particulate matter from fuel yard shall not exceed 5% opacity. *{Permitting note: The averaging time for this condition is based on the specified averaging time of the applicable test method, unless otherwise specified in this permit.}* [Rule 62-296.711(2)(a), F.A.C. and Permit No. AC29-152987]

#### **Monitoring of Operations**

- B.6. 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. AO29-216480]

- B.7. 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.]

#### **Test Methods and Procedures**

- B.8. 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:

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. Fuel Yard (EU-008)

- 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]

#### **Recordkeeping and Reporting Requirements**

- B.9. Testing Rates:** All compliance testing shall be conducted during normal operation and at the maximum material (including limestone or iron ore where applicable) transfer rate attainable during the test period. [Rule 62-4.070(3), F.A.C.; Permit No. AO29-216480]
- B.10. O&M Records:** Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Compliance Authority upon request. [Rules 62-213.440(1)(b)2.b and 62-296.700(6)(e), F.A.C.]
- B.11. Common Compliance Testing Requirements:** Appendix TR of this permit identifies other compliance testing requirements commonly applicable to the emissions units in this subsection. These include the following requirements: Rule 297.310(7)(a)9, F.A.C. (Test Notification); Rule 62-297.310(5), F.A.C. (Determination of Process Variables); Rule 62-297.310(8), F.A.C. (Test Reports); and Rule 62-297.310(7), F.A.C. (Special Compliance Tests).

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection C. ENGINES (EU-039)**

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
039	Diesel Generator and Fire Pump Engines

Table C-1: The following engines are currently on site.

Engine	Qty.	In-Service Date	Engine Displacement	Engine Model Year	Rating	Rule Applicability
Standby Diesel Generator	1	02/1980	638 cu. in. (10.5 litre)	1979	227 bHP	NESHAP Subparts A and ZZZZ
Diesel Emergency Fire Pump Engine	1	02/2007	358 cu. in. (5.9 litre)	2006	188 bHP	NSPS Subparts A and IIII NESHAP Subpart A and ZZZZ
Diesel Emergency Backup Generator	1	09/2008	912 cu. in. (14.9 litre)	2007	755 bHP	
Diesel Emergency Black Start Generator	1	04/2009	1943 cu. in. (31.8 litre)	2007	1495 bHP	

**New Source Performance Standards**

- C.1. NSPS Subpart A: As identified above in Table C-1, three of the engines are subject to the applicable regulations in Subpart A (General Provisions) of 40 CFR 60. See Appendix NS.
- C.2. NSPS Subpart IIII: As identified above in Table C-1, three of the engines are subject the applicable regulations in Subpart IIII (Stationary Compression Ignition Internal Combustion Engines) of 40 CFR 60. See Appendix IIII.

**National Emission Standards for HAP**

- C.3. NESHAP Subpart A: All engines identified in Table C-1 are subject to the applicable regulations in Subpart A (General Provisions) of 40 CFR 63. See Appendix NE.
- C.4. NESHAP Subpart ZZZZ: All engines identified in Table C-1 are subject to the applicable regulations in Subpart ZZZZ (Reciprocating Internal Combustion Engines) of 40 CFR 63. See Appendix ZZZZ.
  - a. The Standby Diesel Generator (227 bHP) is an existing unit as defined by NESHAP Subpart ZZZZ; however, there are no unit-specific applicable requirements at this time.
  - b. The Diesel Emergency Fire Pump Engine (188 bHP), Diesel Emergency Backup Generator (755 bHP) and Diesel Emergency Black Start Generator (1495 bHP) are new units as defined by NESAHP Subpart ZZZZ. Pursuant to 40 CFR63.6590, these units comply with NESHAP Subpart ZZZZ by complying with NSPS Subpart IIII.

**SECTION IV. ACID RAIN PART.**

**Operated by:** Tampa Electric  
**ORIS Code:** 7873

The emissions units listed below are regulated under Acid Rain, Phase II.

EU No.	EPA Unit ID#	Brief Description
020	CT-1A	Combined Cycle Gas Turbine CT-1A
021	CT-1B	Combined Cycle Gas Turbine CT-1B
022	CT-1C	Combined Cycle Gas Turbine CT-1C
023	CT-2A	Combined Cycle Gas Turbine CT-2A
024	CT-2B	Combined Cycle Gas Turbine CT-2B
025	CT-2C	Combined Cycle Gas Turbine CT-2C
026	CT-2D	Combined Cycle Gas Turbine CT-2D

*{Permitting Note: In accordance with the Consent Final Judgment (DEP vs. TECO) dated December 6, 1999 and the Consent Decree (U.S. vs. TECO) dated February 29, 2000, coal-fired Emissions Units 001 through 006 are permanently shut down. As required by these agreements, Emission Units 001 through 006 are permanently shutdown, dismantled and removed from the site. Previously, the permittee submitted the appropriate Retired Emissions Units Acid Rain forms.}*

**A.1.** The Phase II Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:

- a. DEP Form No. 62-210.900(1)(a), dated 05/18/2009, received 05/20/2009.
- b. DEP Form No. 62-210.900(1)(a), dated 05/18/2009, received 05/20/2009.

[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

**A.2.** Sulfur dioxide (SO<sub>2</sub>) Emission Allowances. SO<sub>2</sub> emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.

- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
- b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
- c. Allowances shall be accounted for under the Federal Acid Rain Program.

[Rule 62-213.440(1)(c)1., 2. & 3., F.A.C.]

**SECTION IV. ACID RAIN PART.**

## Acid Rain Part Application

For more information, see instructions and refer to 40 CFR 72.30, 72.31, and 74; and Chapter 62-214, F.A.C.

This submission is:  New     Revised     Renewal

**STEP 1**

Identify the source by plant name, state, and ORIS or plant code.

Bayside Power Station	Florida	7873
Plant name	State	ORIS/Plant Code

**STEP 2**

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a."

If unit a SO<sub>2</sub> Opt-in unit, enter "yes" in column "b".

For new units or SO<sub>2</sub> Opt-In units, enter the requested information in columns "d" and "e."

a	b	c	d	e
Unit ID#	SO <sub>2</sub> Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO <sub>2</sub> Opt-In Units Commence Operation Date	New or SO <sub>2</sub> Opt-In Units Monitor Certification Deadline
CT1A	No	Yes	N/A	N/A
CT1B	No	Yes	N/A	N/A
CT1C	No	Yes	N/A	N/A
CT2A	No	Yes	N/A	N/A
CT2B	No	Yes	N/A	N/A
CT2C	No	Yes	N/A	N/A
CT2D	No	Yes	N/A	N/A
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

## SECTION IV. ACID RAIN PART.

### Bayside Power Station

Name (from STEP 1)

### STEP 3

#### Read the standard requirements.

#### Acid Rain Part Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Submit a complete Acid Rain Part application (including a compliance plan) under 40 CFR Part 72 and Rules 62-214.320 and 330, F.A.C., in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
  - (ii) Submit in a timely manner any supplemental information that the DEP determines is necessary in order to review an Acid Rain Part application and issue or deny an Acid Rain Part;
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain Part application or a superseding Acid Rain Part issued by the DEP; and
  - (ii) Have an Acid Rain Part.

#### Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.
- (4) For applications including a SO<sub>2</sub> Opt-In unit, a monitoring plan for each SO<sub>2</sub> Opt-In unit must be submitted with this application pursuant to 40 CFR 74.14(e). For renewal applications for SO<sub>2</sub> Opt-In units include an updated monitoring plan if applicable under 40 CFR 75.83(b).

#### Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000, or the deadline for monitor certification under 40 CFR Part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain Part application, the Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

#### Excess Emissions Requirements.

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77.

#### Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the EPA or the DEP:
  - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR Part 75; provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and

**SECTION IV. ACID RAIN PART.**

<p><b>Bayside Power Station</b></p> <p>Plant Name (from STEP 1)</p>
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**STEP 3,  
Continued.**

Recordkeeping and Reporting Requirements (cont)

(iv) Copies of all documents used to complete an Acid Rain Part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72, Subpart I, and 40 CFR Part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.

(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 75.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities.

No provision of the Acid Rain Program, an Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

**STEP 4**

For SO<sub>2</sub> Opt-In units only.

In column "f" enter the unit ID# for every SO<sub>2</sub> Opt-In unit identified in column "a" of STEP 2.

For column "g" describe the combustion unit and attach information and diagrams on the combustion unit's configuration.

In column "h" enter the hours.

f	g	h (not required for renewal application)
Unit ID#	Description of the combustion unit	Number of hours unit operated in the six months preceding initial application



**SECTION IV. ACID RAIN PART.**

**Bayside Power Station**  
Plant Name (from STEP 1)

**STEP 5**

For SO<sub>2</sub> Opt-in units only.  
(Not required for SO<sub>2</sub> Opt-in renewal applications.)

In column "i" enter the unit ID# for every SO<sub>2</sub> Opt-in unit identified in column "a" (and in column "f").

For columns "j" through "n," enter the information required under 40 CFR 74.20-74.25 and attach all supporting documentation required by 40 CFR 74.20-74.25.

i	j	k	l	m	n
Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20 (mmBtu)	Actual SO <sub>2</sub> Emissions Rate under 40 CFR 74.22 (lbs/mmBtu)	Allowable 1985 SO <sub>2</sub> Emissions Rate under 40 CFR 74.23 (lbs/mmBtu)	Current Allowable SO <sub>2</sub> Emissions Rate under 40 CFR 74.24 (lbs/mmBtu)	Current Promulgated SO <sub>2</sub> Emissions Rate under 40 CFR 74.25 (lbs/mmBtu)

**STEP 6**

For SO<sub>2</sub> Opt-in units only.  
Attach additional requirements, certify and sign.

- A. If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 40 CFR 74.47 for combustion sources must be attached.
- B. A statement whether the combustion unit was previously an affected unit under 40 CFR 74.
- C. A statement that the combustion unit is not an affected unit under 40 CFR 72.6 and does not have an exemption under 40 CFR 72.7, 72.8, or 72.14.
- D. Attach a complete compliance plan for SO<sub>2</sub> under 40 CFR 72.40.
- E. The designated representative of the combustion unit shall submit a monitoring plan in accordance with 40 CFR 74.81. For renewal application, submit an updated monitoring plan if applicable under 40 CFR 75.53(b).
- F. The following statement must be signed by the designated representative or alternate designated representative of the combustion source: "I certify that the data submitted under 40 CFR Part 74, Subpart C, reflects actual operations of the combustion source and has not been adjusted in any way."

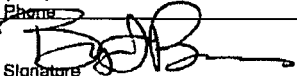
Signature	Date
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**STEP 7**

Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.

**Certification (for designated representative or alternate designated representative only)**

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

<b>Byron T. Burrows</b> Name	<b>Manager – Air Programs, EHS</b> Title
<b>Tampa Electric Company</b> Owner Company Name	
<b>(813) 228-4740</b> Phone	<b>btburrows@tecoenergy.com</b> E-mail address
 Signature	<b>5/18/09</b> Date

**SECTION V. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

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**Clean Air Interstate Rule (CAIR).**

**Operated by:** Tampa Electric Company  
**Plant:** H.L. Culbreath Bayside Power Station  
**ORIS Code:** 7873

The emissions units below are regulated under the Clean Air Interstate Rule.

<b>EU No.</b>	<b>EPA Unit ID#</b>	<b>Brief Description</b>
020	CT-1A	Combined Cycle Gas Turbine CT-1A
021	CT-1B	Combined Cycle Gas Turbine CT-1B
022	CT-1C	Combined Cycle Gas Turbine CT-1C
023	CT-2A	Combined Cycle Gas Turbine CT-2A
024	CT-2B	Combined Cycle Gas Turbine CT-2B
025	CT-2C	Combined Cycle Gas Turbine CT-2C
026	CT-2D	Combined Cycle Gas Turbine CT-2D

1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b)) dated March 16, 2008, which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]

**SECTION V. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

## Clean Air Interstate Rule (CAIR) Part

For more information, see instructions and refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321 and 96.322; and Rule 62-296.470, F.A.C.

This submission is:  New     Revised     Renewal

**STEP 1**

Identify the source by plant name and ORIS or EIA plant code

Plant Name: <b>Bayside Power Station</b>	State: <b>Florida</b>	ORIS or EIA Plant Code:  <b>7873</b>
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**STEP 2**

In column "a" enter the unit ID# for every CAIR unit at the CAIR source.

In columns "b," "c," and "d," indicate to which CAIR program(s) each unit is subject by placing an "X" in the column(s).

For new units, enter the requested information in columns "e" and "f."

a	b	c	d	e	f
Unit ID#	Unit will hold nitrogen oxides (NO <sub>x</sub> ) allowances in accordance with 40 CFR 96.106(c)(1)	Unit will hold sulfur dioxide (SO <sub>2</sub> ) allowances in accordance with 40 CFR 96.206(c)(1)	Unit will hold NO <sub>x</sub> Ozone Season allowances in accordance with 40 CFR 96.306(c)(1)	New Units Expected Commence Commercial Operation Date	New Units Expected Monitor Certification Deadline
CT1A	X	X	X	N/A	N/A
CT1B	X	X	X	N/A	N/A
CT1C	X	X	X	N/A	N/A
CT2A	X	X	X	N/A	N/A
CT2B	X	X	X	N/A	N/A
CT2C	X	X	X	N/A	N/A
CT2D	X	X	X	N/A	N/A

DEP Form No. 62-210.900(1)(b) – Form  
Effective: 3/16/08

Tampa Electric Company  
H.L. Culbreath Bayside Power Station

Page 25

Permit No. 0570040-027-AV  
Title V Air Operation Permit Renewal

**SECTION V. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

<b>Bayside Power Station</b>
Plant Name (from STEP 1)

STEP 3

Read the standard requirements.

**CAIR NO<sub>x</sub> ANNUAL TRADING PROGRAM**

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall:
  - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
  - (ii) [Reserved];
- (2) The owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine compliance by each CAIR NO<sub>x</sub> source with the following CAIR NO<sub>x</sub> Emissions Requirements.

NO<sub>x</sub> Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> allowances available for compliance deductions for the control period under 40 CFR 96.154(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for the control period from all CAIR NO<sub>x</sub> units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
- (2) A CAIR NO<sub>x</sub> unit shall be subject to the requirements under paragraph (1) of the NO<sub>x</sub> Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR NO<sub>x</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO<sub>x</sub> Requirements, for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated.
- (4) CAIR NO<sub>x</sub> allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one ton of NO<sub>x</sub> in accordance with the CAIR NO<sub>x</sub> Annual Trading Program. No provision of the CAIR NO<sub>x</sub> Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO<sub>x</sub> allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO<sub>x</sub> unit.

Excess Emissions Requirements.

If a CAIR NO<sub>x</sub> source emits NO<sub>x</sub> during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
  - (i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO<sub>x</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
  - (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Annual Trading Program.
  - (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO<sub>x</sub> Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.
- (2) The CAIR designated representative of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

**SECTION V. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

<b>Bayside Power Station</b>
Plant Name (from STEP 1)

**STEP 3,  
Continued**

Liability.

- (1) Each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.
- (2) Any provision of the CAIR NO<sub>x</sub> Annual Trading Program that applies to a CAIR NO<sub>x</sub> source or the CAIR designated representative of a CAIR NO<sub>x</sub> source shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> units at the source.
- (3) Any provision of the CAIR NO<sub>x</sub> Annual Trading Program that applies to a CAIR NO<sub>x</sub> unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO<sub>x</sub> Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> source or CAIR NO<sub>x</sub> unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**CAIR SO<sub>2</sub> TRADING PROGRAM**

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall:
  - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-298.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
  - (ii) [Reserved];
- (2) The owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR SO<sub>2</sub> source and each SO<sub>2</sub> CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-298.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO<sub>2</sub> source with the following CAIR SO<sub>2</sub> Emission Requirements.

SO<sub>2</sub> Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
- (2) A CAIR SO<sub>2</sub> unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR SO<sub>2</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO<sub>2</sub> Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated.
- (4) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> Trading Program. No provision of the CAIR SO<sub>2</sub> Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR SO<sub>2</sub> allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO<sub>2</sub> unit.

Excess Emissions Requirements.

If a CAIR SO<sub>2</sub> source emits SO<sub>2</sub> during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

**SECTION V. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

**Bayside Power Station**

Plant Name (from STEP 1)

**STEP 3,  
Continued**

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.

(i) The certificate of representation under 40 CFR 98.213 for the CAIR designated representative for the source and each CAIR SO<sub>2</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 98.213 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 98, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 98, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO<sub>2</sub> Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR SO<sub>2</sub> Trading Program.

(2) The CAIR designated representative of a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR SO<sub>2</sub> Trading Program, including those under 40 CFR Part 98, Subpart HHH.

Liability.

(1) Each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program.

(2) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> source or the CAIR designated representative of a CAIR SO<sub>2</sub> source shall also apply to the owners and operators of such source and of the CAIR SO<sub>2</sub> units at the source.

(3) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO<sub>2</sub> Trading Program, a CAIR Part, or an exemption under 40 CFR 98.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO<sub>2</sub> source or CAIR SO<sub>2</sub> unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**CAIR NO<sub>x</sub> OZONE SEASON TRADING PROGRAM**

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall:

(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 98.322 and Rule 62-298.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and

(ii) [Reserved];

(2) The owners and operators of each CAIR NO<sub>x</sub> Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO<sub>x</sub> Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 98, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 98, Subpart HHHH, and Rule 62-298.470, F.A.C.

(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 98, Subpart HHHH, shall be used to determine compliance by each CAIR NO<sub>x</sub> Ozone Season source with the following CAIR NO<sub>x</sub> Ozone Season Emissions Requirements.

NO<sub>x</sub> Ozone Season Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> Ozone Season allowances available for compliance deductions for the control period under 40 CFR 98.354(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for the control period from all CAIR NO<sub>x</sub> Ozone Season units at the source, as determined in accordance with 40 CFR Part 98, Subpart HHHH.

(2) A CAIR NO<sub>x</sub> Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO<sub>x</sub> Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 98.370(b)(1),(2), or (3) and for each control period thereafter.

(3) A CAIR NO<sub>x</sub> Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO<sub>x</sub> Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> Ozone Season allowance was allocated.

(4) CAIR NO<sub>x</sub> Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 98, Subparts FFFF and GGGG.

(5) A CAIR NO<sub>x</sub> Ozone Season allowance is a limited authorization to emit one ton of NO<sub>x</sub> in accordance with the CAIR NO<sub>x</sub> Ozone Season Trading Program. No provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 98.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO<sub>x</sub> Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under 40 CFR Part 98, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> Ozone Season allowance to or from a CAIR NO<sub>x</sub> Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO<sub>x</sub> Ozone Season unit.

**SECTION V. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

**STEP 3,  
Continued**

<b>Bayside Power Station</b>
Plant Name (from STEP 1)

Excess Emissions Requirements.

If a CAIR NO<sub>x</sub> Ozone Season source emits NO<sub>x</sub> during any control period in excess of the CAIR NO<sub>x</sub> Ozone Season emissions limitation, then:  
 (1) The owners and operators of the source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall surrender the CAIR NO<sub>x</sub> Ozone Season allowances required for deduction under 40 CFR 98.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and  
 (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 98, Subpart AAAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.  
 (i) The certificate of representation under 40 CFR 98.313 for the CAIR designated representative for the source and each CAIR NO<sub>x</sub> Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 98.113 changing the CAIR designated representative.  
 (ii) All emissions monitoring information, in accordance with 40 CFR Part 98, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 98, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.  
 (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Ozone Season Trading Program.  
 (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO<sub>x</sub> Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Ozone Season Trading Program.  
 (2) The CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Ozone Season Trading Program, including those under 40 CFR Part 98, Subpart HHHH.

Liability.

(1) Each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit shall meet the requirements of the CAIR NO<sub>x</sub> Ozone Season Trading Program.  
 (2) Any provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program that applies to a CAIR NO<sub>x</sub> Ozone Season source or the CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season source shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> Ozone Season units at the source.  
 (3) Any provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program that applies to a CAIR NO<sub>x</sub> Ozone Season unit or the CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.


No provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 98.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> Ozone Season source or CAIR NO<sub>x</sub> Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**STEP 4**

**Certification (for designated representative or alternate designated representative only)**

**Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.**

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

<b>Byron T. Burrows</b> Name	<b>Manager – Air Programs, EHS</b> Title
<b>Tampa Electric Company</b> Owner Company Name	
<b>(813) 228-4740</b> Phone	<b>btburrows@tecoenergy.com</b> E-mail address
 Signature	<b>5/18/09</b> Date

## Friday, Barbara

---

**To:** fibusot@tecoenergy.com  
**Cc:** Byron Burrows; lapence@tecoenergy.com; bpwilloughby@tecoenergy.com; Zhang-Torres; lee@epchc.org; Halpin, Mike; 'Forney.Kathleen@epamail.epa.gov'; 'Oquendo.Ana@epamail.epa.gov'; Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
**Attachments:** 0570040-027-AV SignedNoticeofFinalPermit.pdf

Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

*Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).*

Click on the following link to access the permit project documents:

[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0570040.027.AV.F\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0570040.027.AV.F_pdf.zip)

Attention: Tammy McWade

Owner/Company Name: TAMPA ELECTRIC COMPANY  
Facility Name: H. L. CULBREATH BAYSIDE POWER STATION  
Project Number: 0570040-027-AV  
Permit Status: FINAL  
Permit Activity: PERMIT RENEWAL  
Facility County: HILLSBOROUGH

“The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the “*Air Permit Documents Search*” website at <http://www.dep.state.fl.us/air/emission/apds/default.asp> . “

Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
(850)921-9524



## Friday, Barbara

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**From:** Busot, Frank L. [FLBusot@tecoenergy.com]  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 2:27 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

Your message

**To:** [FLBusot@tecoenergy.com](mailto:FLBusot@tecoenergy.com)  
**Subject:**

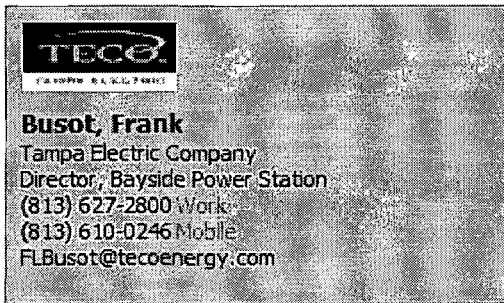
was read on 12/7/2009 2:27 PM.

## Friday, Barbara

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**From:** Busot, Frank L. [FLBusot@tecoenergy.com]  
**Sent:** Monday, December 07, 2009 2:30 PM  
**To:** Friday, Barbara  
**Cc:** Pence, Laurie A.; Vance, Elena B.; Willoughby, Ben P.  
**Subject:** RE: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV  
**Attachments:** Busot Frank.vcf

I can view the documents.



---

**From:** Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]  
**Sent:** Monday, December 07, 2009 2:27 PM  
**To:** Busot, Frank L.  
**Cc:** Burrows, Byron T.; Pence, Laurie A.; Willoughby, Ben P.; Zhang-Torres; lee@epchc.org; Halpin, Mike; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

*Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).*

Click on the following link to access the permit project documents:

[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0570040.027.AV.F\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0570040.027.AV.F_pdf.zip)

Attention: Tammy McWade

Owner/Company Name: TAMPA ELECTRIC COMPANY  
Facility Name: H. L. CULBREATH BAYSIDE POWER STATION  
Project Number: 0570040-027-AV  
Permit Status: FINAL  
Permit Activity: PERMIT RENEWAL  
Facility County: HILLSBOROUGH

“The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the “*Air Permit Documents Search*” website at <http://www.dep.state.fl.us/air/emission/apds/default.asp> . “

Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
(850)921-9524

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

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NOTICE: This email is intended only for the individual(s) to whom it is addressed and may contain confidential information. If you have received this email by mistake, please notify the sender immediately, delete this email from your system and do not copy or disclose it to anyone else. Although we take precautions to protect against viruses, we advise you to take your own precautions to protect against viruses as we accept no liability for any which remain.

## Friday, Barbara

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**From:** Burrows, Byron T. [BTBurrows@tecoenergy.com]  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 4:28 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

Your message

**To:** [BTBurrows@tecoenergy.com](mailto:BTBurrows@tecoenergy.com)  
**Subject:**

was read on 12/7/2009 4:28 PM.

## Friday, Barbara

---

**From:** Pence, Laurie A. [lapence@tecoenergy.com]  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 2:37 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

Your message

**To:** [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com)  
**Subject:**

was read on 12/7/2009 2:37 PM.

## Friday, Barbara

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**From:** Willoughby, Ben P. [BPWilloughby@tecoenergy.com]  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 2:53 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

Your message

**To:** [BPWilloughby@tecoenergy.com](mailto:BPWilloughby@tecoenergy.com)  
**Subject:**

was read on 12/7/2009 2:53 PM.

## Friday, Barbara

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**From:** System Administrator  
**To:** Zhang-Torres; Gibson, Victoria  
**Sent:** Monday, December 07, 2009 2:27 PM  
**Subject:** Delivered:TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

Your message

To: [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
Cc: Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres; [lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov); [Oquendo.Ana@epamail.epa.gov](mailto:Oquendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
Subject: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
Sent: 12/7/2009 2:27 PM

was delivered to the following recipient(s):

Zhang-Torres on 12/7/2009 2:27 PM  
Gibson, Victoria on 12/7/2009 2:27 PM

## Friday, Barbara

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**From:** Zhang-Torres  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 2:27 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

Your message

**To:** [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
**Cc:** Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres; [lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov); [Oquendo.Ana@epamail.epa.gov](mailto:Oquendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
**Sent:** 12/7/2009 2:27 PM

was read on 12/7/2009 2:27 PM.



## Friday, Barbara

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**From:** Gibson, Victoria  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 2:28 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

Your message

**To:** [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
**Cc:** Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres;  
[lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov);  
[Oquendo.Ana@epamail.epa.gov](mailto:Oquendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan;  
Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-  
027-AV  
**Sent:** 12/7/2009 2:27 PM

was read on 12/7/2009 2:28 PM.

## Friday, Barbara

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**From:** Exchange Administrator  
**Sent:** Monday, December 07, 2009 2:27 PM  
**To:** Friday, Barbara  
**Subject:** Delivery Status Notification (Relay)  
**Attachments:** ATT518370.txt; TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

[lee@epchc.org](mailto:lee@epchc.org)

## Friday, Barbara

---

**From:** Lee, Diana [Lee@epchc.org]  
**To:** Friday, Barbara  
**Sent:** Tuesday, December 08, 2009 9:25 AM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

Your message

To: [Lee@epchc.org](mailto:Lee@epchc.org)  
Subject:

was read on 12/8/2009 9:25 AM.

## Friday, Barbara

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**From:** Halpin, Mike  
**Sent:** Monday, December 07, 2009 2:32 PM  
**To:** Friday, Barbara  
**Subject:** Delivered: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV  
**Attachments:** ATT518966.txt

Your message was delivered to the recipient.

## Friday, Barbara

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**From:** System Administrator  
**To:** Halpin, Mike; Holtom, Jonathan  
**Sent:** Monday, December 07, 2009 2:27 PM  
**Subject:** Delivered:TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

Your message

**To:** [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
**Cc:** Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres; [lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov); [Quendo.Ana@epamail.epa.gov](mailto:Quendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
**Sent:** 12/7/2009 2:27 PM

was delivered to the following recipient(s):

Halpin, Mike on 12/7/2009 2:27 PM  
Holtom, Jonathan on 12/7/2009 2:27 PM

## Friday, Barbara

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**From:** Holtom, Jonathan  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 2:57 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION;  
0570040-027-AV

### Your message

**To:** [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
**Cc:** Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres; [lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov); [Oquendo.Ana@epamail.epa.gov](mailto:Oquendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
**Sent:** 12/7/2009 2:27 PM

was read on 12/7/2009 2:57 PM.

## Friday, Barbara

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**From:** Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]  
**Sent:** Monday, December 07, 2009 2:27 PM  
**To:** Friday, Barbara  
**Subject:** Successful Mail Delivery Report  
**Attachments:** Delivery report; Message Headers

This is the mail system at host mseive01.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4B1D5700\_2862\_383\_3 A503C44364

<Oquendo.Ana@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4B1D5700\_2862\_383\_3 A503C44364

## Friday, Barbara

---

**From:** System Administrator  
**To:** McWade, Tammy; Koerner, Jeff  
**Sent:** Monday, December 07, 2009 2:27 PM  
**Subject:** Delivered:TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

### Your message

**To:** [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
**Cc:** Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres; [lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov); [Oquendo.Ana@epamail.epa.gov](mailto:Oquendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
**Sent:** 12/7/2009 2:27 PM

was delivered to the following recipient(s):

McWade, Tammy on 12/7/2009 2:27 PM  
Koerner, Jeff on 12/7/2009 2:27 PM



## Friday, Barbara

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**From:** Koerner, Jeff  
**To:** Friday, Barbara  
**Sent:** Monday, December 07, 2009 3:45 PM  
**Subject:** Read: TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV

Your message

**To:** [flbusot@tecoenergy.com](mailto:flbusot@tecoenergy.com)  
**Cc:** Byron Burrows; [lapence@tecoenergy.com](mailto:lapence@tecoenergy.com); [bpwilloughby@tecoenergy.com](mailto:bpwilloughby@tecoenergy.com); Zhang-Torres; [lee@epchc.org](mailto:lee@epchc.org); Halpin, Mike; [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov); [Oquendo.Ana@epamail.epa.gov](mailto:Oquendo.Ana@epamail.epa.gov); Gibson, Victoria; McWade, Tammy; Holtom, Jonathan; Koerner, Jeff  
**Subject:** TAMPA ELECTRIC COMPANY - H. L. CULBREATH BAYSIDE POWER STATION; 0570040-027-AV  
**Sent:** 12/7/2009 2:27 PM

was read on 12/7/2009 3:45 PM.