

Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

David B. Struhs Secretary

March 11, 2004

Mr. Gregg M. Worley, Chief Air Permits Section U.S. EPA, Region 4 61 Forsyth Street Atlanta, Georgia 30303-8960

RE: Tampa Electric Company
Bayside Power Station
DEP File No. 0570040-021-AC, PSD-FL-301B

Dear Mr. Worley:

Enclosed for your review and comment is a PSD application submitted by Tampa Electric Company for proposed modifications at their Bayside Power Station in Hillsborough County, Florida.

Your comments may be forwarded to my attention at the letterhead address or faxed to the Bureau of Air Regulation at 850/921-9533. If you have any questions, please contact Jeff Koerner, review engineer, at 850/921-9536.

Sincerely,

A. A. Linero, P.E.

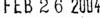
South Permitting Section

Pathy adams

AAL/pa Enclosure cc: J. Koerner

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FEB 26 2004



BUREAU OF AIR REGULATION



TAMPA ELECTRIC

February 25, 2004

Mr. Jeff Koerner, P.E. Florida Department of **Environmental Protection** Division of Air Resource Management 111 South Magnolia Drive, Suite 4 Tallahassee, Florida 32301

Via FedEx Airbill No. 7924 3837 8239

Re:

Tampa Electric Company **Bayside Power Station** PSD Air Construction Permit Revision Request Permit No. PSD-FL-301A

Dear Mr. Koerner:

Tampa Electric Company (TEC) submits a request for a revision to the Bayside Power Station (BPS) PSD Air Construction Permit Number PSD-FL-301A. This request addresses a number of minor items in the current PSD permit TEC believes can be improved through minor revisions and clarifications. For the most part, these requested modifications involve procedural issues, and do not affect the nature and character of the emissions from this facility. As such, this request is submitted as a PSD air construction permit revision in accordance with the Florida Department of Environmental Protection (FDEP) guidance.

The proposed PSD permit condition changes address clarification of requirements during startup, shutdown, malfunction and low load operation, and includes both a cold startup plan (Attachment D) and a warm startup plan (Attachment E).

As requested by the Department per the January 30, 2004 conversation, the enclosed PSD air operation permit revision application includes the following materials:

- (1) Attachment A: Completed Application for Air Permit Long Form (Facility Information section only, including Responsible Official and Professional Engineer certifications);
- (2) Attachment B: Detailed narrative describing each requested permit condition change and the rationale for the change, followed by supporting information for the request (e.g., pertinent guidance memoranda);
- (3) Attachment C: Marked-up copy of the current Title V permit that contains the requested permit condition changes. For each permit condition change, the requested permit language (strikeout and/or additional text) is shown;
- (4) Attachment D: Cold Startup Plan;
- (5) Attachment E: Warm Startup Plan;
- (6) Attachment F: Typical Tuning Schedule;
- (7) Attachment G: CT Water Wash CEM Data.

TAMPA ELECTRIC COMPANY P. O. BOX 111 TAMPA, FL 33601-0111 Mr. Jeff Koerner February 25, 2004 Page 2 of 2

To facilitate the Department's review of this PSD permit revision request, an electronic copy of the marked up BPS PSD permit is also being submitted to you via e-mail. This electronic file of the complete BPS PSD permit shows the requested condition changes using highlighted formats (i.e., red strikeout for deleted text and blue underline for added text).

TEC appreciates the cooperation and consideration of the Department in this requested PSD permit revision for the BPS. Your expeditious processing of this request for a permit revision will be appreciated. If you have any questions or comments pertaining to this request, please direct them to Ms. Greer Briggs at (813) 228-4302.

Sincerely,

Laura R. Crouch

Manager - Air Programs

Environmental, Health & Safety

Lawal. Circon

EA/bmr/GMB166

Enclosure

c/enc: Mr. Ed Svec, FDEP

Mr. Jerry Kissel, FDEP SW District



Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

David B. Struhs Secretary

March 19, 2004

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Wade A. Maye, General Manager Bayside Power Station / F. J. Gannon Station P.O. Box 111 Tampa, FL 336601-0111

Re: Request for Additional Information

Project No. 0570040-021-AC Permit No. PSD-FL-301B

Minor Modifications to PSD Permit, Specific Condition 17

Dear Mr. Maye:

On February 26, 2004, the Department received your application requesting minor modifications to the PSD air construction permit for the Bayside Power Station, which is located on Port Sutton Road in Tampa, Florida. The requested changes relate to Specific Condition 17 and generally regard low load operation and emissions data exclusion for certain recognized periods. The application is incomplete. In order to continue processing your application, the Department will need the additional information requested below. Should your response to any of the below items require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. **Low Load Conditions**: The application requests the ability to operate at loads lower than 50% load as long as the emissions standards are met. This may be acceptable as long as the unit is operating in full "lean pre-mix mode" with the low CO and NOx characteristics. Is this the case?

2. CEMS Data Exclusion

<u>Malfunctions</u>: The application requests removal of the requirement to notify the Compliance Authority within one working day of a malfunction that results in elevated emissions. Note that only malfunctions resulting in the exclusion of emissions data must be documented. Notification may be by telephone, facsimile transmittal, or electronic mail. The purpose of this notification is to ensure that malfunctions are quickly recognized and corrected. It is important that the Compliance Authority be aware of frequently recurring malfunctions so that they do not become "normal operation" for a facility. A part of the authority for this requirement is based on Rule 62-4.130, F.A.C., which requires "immediate" notification. Please comment.

Steam Turbine Cold Startup: The application requests retaining the 16 hours of data exclusion for a cold startup and 8 hours of data exclusion for a warm startup. The PSD permit requires, "... the permittee shall submit a revised plan to the Department based on actual operating data and experience. The Department shall review the actual operational data and determine whether data exclusion allowed for a steam turbine cold startup defined in Condition 23 of this section shall be modified to represent good operational practices. The Department shall also evaluate the operational information and determine whether a separate "warm startup" requirement shall be specified in the Title V operation permit for startup after the steam turbine has been offline for 24 hours or more, but less than 48 hours." To support your request, please provide the following "operational data": the number of cold and warm steam turbine startups to date; the

hours operated at each of the six phases of startup defined in Attachment D; the CO emissions, NOx emissions, gas turbine load (MW), and first stage metal temperature during each 1-hour block of startup. Have the requirements of the current condition prevented a "warm startup" and caused additional cold startups? Similar to a cold startup, is only one gas turbine operated at low load during a warm startup?

<u>Tuning</u>: The application requests removing the 5-day advance notice prior to a tuning session and allowing all data collected during a tuning session to be excluded from the compliance demonstration. Please provide an example of emissions (CO and NOx) and load data during a major tuning session to support this request. Is the SCR functioning during a tuning session? Is the request limited to the exclusion of CO data? Approximately how many major tuning sessions are necessary each year?

<u>Drying After an Off-Line Compressor Water Wash</u>: The application requests up to two hours to perform a water wash of the compressor for maintenance purposes. Are such compressor water washes regularly scheduled by General Electric, performed on an "as needed" basis, or both? During the drying period, is the gas turbine operated at loads less than 10 MW?

3. **Startup Plans**: The application requests removal of the requirement to provide a 24-hour notice prior to a cold steam turbine startup. To support this request, please submit the "operational data" for startups as requested above. For Attachments D and F (Plans for Steam Turbine Cold and Warm Startups) of the application, please clarify the loads at each of the six identified operating steps.

The Department will resume processing your application after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the authorized representative or responsible official. You are reminded that Rule 62-4.055(1), F.A.C. now requires applicants to respond to requests for information within 90 days or provide a written request for an additional period of time to submit the information.

If you have any questions regarding this matter, please call me at 850/921-9536.

Sincerely,

Jeffery F. Koerner

New Source Review Section

cc: Ms. Greer Briggs, TECO

Mr. Tom Davis, ECT

Mr. Jerry Kissel, SWD

Mr. Jerry Campbell, HEPC

Mr. Jim Little, EPA Region 4

3/22/04 cc=

Mr. John Bunyak, NPS

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Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Colleen M. Castille Secretary

April 9, 2004

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Wade A. Maye, General Manager Bayside Power Station / F. J. Gannon Station P.O. Box 111 Tampa, FL 336601-0111

Re: Air Permit Project Status Updates

Bayside Power Station

Dear Mr. Maye:

This is simply a courtesy letter to provide an update on the status of two pending applications for air permits for the Bayside Power Station located on Port Sutton Road in Tampa, Florida.

Project No. 0570040-019-AC

Modification of Air Permit No. PSD-FL-301

Request for a Phase of Simple Cycle Operation for Bayside Unit 3 and the Use of Distillate Oil

Status: We received this application on July 23, 2003 and requested additional information in a letter dated August 13, 2003. On November 7, 2003 we sent a reminder. On November 11, 2003, we received an email request for an additional 90 days, which we approved on November 12, 2003. On February 12, 2004, we received a portion of the additional information marked "draft" and a second request for an additional 90 days by email, which we approved on February 13, 2004. It is our understanding that your consultant continues to work on the questions regarding modeling issues. This application remains incomplete and cannot be processed without the requested additional information. The final deadline for submitting this information is May 11, 2004.

Project No. 0570040-021-AC

Modification of Air Permit No. PSD-FL-301

Request for Minor Modification of Permit Condition 17 (Excess Emissions)

Status: We received this application on February 26, 2004 and requested additional information in a letter dated March 19, 2004. Based on several phone conversations with your staff, we believe that the additional information will be submitted shortly. This application remains incomplete and cannot be processed without the requested additional information. The final deadline for submitting this information is June 20, 2004.

We will resume processing your applications after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the authorized representative or responsible official. If you have any questions regarding this matter, please call me at 850/921-9536.

Sincerely,

Jeffery F. Koerner, Air Permitting South

Bureau of Air Regulation

Joffens J. Kon

cc: Ms. Greer Briggs, TECO Mr. Tom Davis, ECT

Mr. Jerry Campbell, HEPC Mr. Jim Little, EPA Region 4

Mr. Jerry Kissel, SWD

Mr. John Bunyak, NPS

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JUN 21 2004

BUREAU OF AIR REGULATION

June 18, 2004

Mr. Jeffery F. Koerner, P.E. New Source Review Section Florida Department of Environmental Protection 111 South Magnolia Avenue, Suite 4 Tallahassee, Florida 32301 Via FedEx Airbill No. 7926 6616 9874

Re: Request for Additional Information

H.L. Culbreath Bayside Power Station

Project No. 0570040-021-AC, Permit No. PSD-FL-301A Minor modifications to PSD Permit, Specific Condition 17

Dear Mr. Koerner:

Tampa Electric Company (TEC) has received your letter dated March 19, 2004 (received by TEC on March 29, 2004), requesting additional information with regards to H.L. Culbreath Bayside Power Station (Bayside) modifications to the existing PSD permit. This correspondence is intended to provide a response to each specific issue raised by the Department. The Responsible Official Certification and the Professional Engineer Certification are provided in Attachment A. For your convenience, TEC has restated each point and provided a response below each specific issue.

FDEP Item 1

<u>Low Load Conditions</u>: The application requests the ability to operate at loads lower than 50% load as long as the emissions standards are met. This may be acceptable as long as the unit is operating in full "lean pre-mix mode" with the low CO and NOx characteristics. Is this the case?

TEC Response

Yes, this is the case.

FDEP Item 2: CEMS Data Exclusion

<u>Malfunctions</u>: The application requests removal of the requirement to notify the Compliance Authority within one working day of a malfunction that results in elevated emissions. Note that only malfunctions resulting in the exclusion of emissions data must be documented. Notification may be by telephone, facsimile transmittal, or electronic mail. The purpose of this notification is to ensure that malfunctions are quickly recognized and corrected. It is important that the Compliance Authority be aware of frequently recurring malfunctions so that they do not become "normal operation" for a facility. A part of

TAMPA ELECTRIC COMPANY
P. O. BOX 111 TAMPA, FL 33601-0111

(B13) 22B-4111

Mr. Jeffery F. Koerner, P.E. June 18, 2004 Page 2 of 5

the authority for this requirement is based on Rule 62-4.130, F.A.C., which requires "immediate" notification. Please comment.

Steam Turbine Cold Startup: The application requests retaining the 16 hours of data exclusion for a cold startup and 8 hours of data exclusion for a warm startup. The PSD permit requires, "... the permittee shall submit a revised plan to the Department based on actual operating data and experience. The Department shall review the actual operational data and determine whether data exclusion allowed for a steam turbine cold startup defined in Condition 23 of this section shall be modified to represent good operational practices. The Department shall also evaluate the operational information and determine whether a separate "warm startup" requirement shall be specified in the Title V operation permit for startup after the steam turbine has been offline for 24 hours or more, but less than 48 hours." To support your request, please provide the following "operational data": the number of cold and warm steam turbine startups to date; the hours operated at each of the six phases of startup defined in Attachment D; the CO emissions, NOx emissions, gas turbine load (MW), and first stage metal temperature during each 1-hour block of startup. Have the requirements of the current condition prevented a "warm startup" and caused additional cold startups? Similar to a cold startup, is only one gas turbine operated at low load during a warm startup?

<u>Tuning</u>: The application requests removing the 5-day advance notice prior to a tuning session and allowing all data collected during a tuning session to be excluded from the compliance demonstration. Please provide an example of emissions (CO and NOx) and load data during a major tuning session to support this request. Is the SCR functioning during a tuning session? Is the request limited to the exclusion of CO data? Approximately how many major tuning sessions are necessary each year?

<u>Drying After an Off-Line Compressor Water Wash</u>: The application requests up to two hours to perform a water wash of the compressor for maintenance purposes. Are such compressor water washes regularly scheduled by General Electric performed on an "as needed" basis, or both? During the drying period, is the gas turbine operated at loads less than 10 MW?

TEC Response

<u>Malfunctions</u>: Malfunctions are currently reported in both the BPS Excess emissions report and the BPS Subpart GG report. Based on recent discussions with the Department, TEC does not believe that the full intent of the permit condition is clear in the permit and would like to explore modifications to the language to reflect more clearly the Departments' concerns. TEC would appreciate further discussions on this item with FDEP's Jeff Koerner to clarify this issue.

Steam Turbine Cold Startup: BPS has experienced a total of 16 steam turbine (ST) cold startups and several instances where a ST warm startup procedure would have been utilized if the permit allowed. For the hours operated at each of the six phases of startup, please see Attachment D (Revised). For CO emissions, NOx emissions, gas turbine load, and first stage metal temperature during each 1-hour block of startup, please see Attachment H – Operational Data: Cold Startup.

The requirements of the current permit have not resulted in additional ST cold startups at this point. TEC requests a ST warm startup procedure in the existing permit to give the facility the flexibility it may need to more efficiently operate the plant while minimizing emissions. Some examples of potential ST warm startups follow:

Mr. Jeffery F. Koerner, P.E. June 18, 2004 Page 3 of 5

- On February 28th, 2004, the ST needed to be brought back up after the ST tripped. While attempting to bring the ST back on-line, it experienced a malfunction and the subsequent startup resulted in a total of six hours of excess emissions before the ST was on-line. The first hour of excess emissions began in the last hour on February 28, 2004. Five hours of excess emissions were observed during the ST startup on February 29, 2004, and per the permit, four hours were excluded. Averaging in the fifth hour as part of the 24-hour block average resulted in an exceedance of both NOx and CO. This particular event would qualify under a warm startup procedure since the ST was not off-line for 24 hours or more, or the first stage turbine metal temperature was not 250°F or less.
- On June 5, 2004, a lightning strike hit an insulator near the substation at Bayside (BPS), which caused a problem with the ST voltage regulator on BPS 2 ST. When the lightning hit, it caused the voltage regulator to go into manual mode, and putting it back into automatic mode caused the ST to trip on June 6, 2004. After troubleshooting, an attempt to bring the ST online was made using BPS Unit 2C at 20:00 on June 6, 2004. The load on Unit 2C was reduced to 10MW, and experienced excess emissions until 00:00 on June 7, 2004. It was later found that there was a problem with the timer in the voltage regulator. As a result, BPS Unit 2C experienced a total of five hours of excess emissions during startup of Unit 2 ST. Although at the end of the 24-hour block period, the unit was in compliance with both the NO_x and CO emission limits, neither criterion for a ST cold startup was met before the ST came on-line. This would qualify as a ST warm startup, under the ST warm startup procedure.

TEC has provided two examples above that demonstrate the need for a warm startup procedure and supporting data in Attachment H: Operational Data – Warm Startup, to back its request. TEC believes that a ST warm startup procedure results in the best operational practices for the plant, and as a result minimizes emissions. During startup of the ST, the permit only allows data exclusion hours if we are experiencing a cold startup. Once the ST is on-line and trips, for example, the permit does not make any provisions for data exclusion hours during such an event. The request to wait 24 hours or until the first stage turbine metal temperature is less than 250°F does not allow for any flexibility, and attempting to bring the ST back on-line may result in excess emissions that cannot be excluded. Requesting that the ST remain off-line for 24 hours before it can be brought back on-line (the cold startup provision) is not an option for TEC and would lead to additional excess emissions over a warm startup. Attempting to bring the ST back on-line, and starting up a new CT, would result in more total hours of excess emissions, although those hours can be excluded. TEC believes that with a ST warm startup, the total number of hours of excess emissions will be less if we are allowed to continue startup with an already hot/warm CT.

Yes, only one gas turbine is operated at low loads during a warm startup. This is reflected in the revised Warm Startup Procedure. Please see Attachment E (Revised)

<u>Tuning:</u> Please see Attachment H: Operational data – Tuning, for examples of Emissions (CO and NOx) and load data as recorded during a tuning session. The SCR is not functioning during a tuning session and thus, both CO and NOx are exceeded during such an event. Tuning sessions can be determined by both GE and TEC and can be based on the result of either a major component change-out or through a review of operational data. Thus, it is difficult to say with any certainty how many tuning sessions are necessary each year.

Mr. Jeffery F. Koerner, P.E. June 18, 2004 Page 4 of 5

<u>Drying After an Off-Line Compressor Water Wash</u>: Compressor water washes are scheduled when there is a reduction in efficiency at the combustion turbine. They are scheduled as needed and are required to have a drying period, during which they shall be operated at 10 MW or less.

FDEP Item 3: Startup Plans

The application requests removal of the requirement to provide a 24-hour notice prior to a cold steam turbine startup. To support this request, please submit the "operational data" for startups as requested above. For Attachments D and E (Plans for Steam Turbine Cold and Warm Startups) of the application, please clarify the loads at each of the six identified operating steps.

TEC Response

Please see Attachment D (Revised) and Attachment E (Revised) for clarification of the loads at each of the six identified operating steps.

Upon further discussions with the plant after the initial submittal of the clean-up application to FDEP, TEC decided to add one additional requirement under Condition 17 - CEMS Data Exclusion. In conversations with FDEP, the request for <u>data exclusion during an Over Speed Trip test</u> and TEC's suggested permit language for inclusion into the BPS permit is addressed below.

TEC Additional Permit Revision Request: Over Speed Trip Test data exclusion

1.0 STARTUP, SHUTDOWN, AND LOW LOAD OPERATION

1.1.8 OVER SPEED TRIP TEST DATA EXCLUSION EXPLANATION

An Over Speed trip test is a requirement by both GE and TEC's insurance carrier, FM Global. It is an annual test that is performed to prevent the turbine from over speed, i.e. @ 3960rpm, and is typically performed when a unit is coming out of an outage or has experienced a major overhaul. The turbine reaches speed at 3600rpm. The speed is slowly increased to 3960 rpm (110%) and a trip is initiated. During this operation, the CO and NOx emission levels are elevated to greater than the permitted emission limits. (See Attachment J)

2.0 SUGGESTED PERMIT LANGUAGE

TEC proposes the following language to effect the requested change.

Add:

A.17(c)(6) Over Speed Trip Test: For each gas turbine, periods of data excluded due to an overspeed trip test shall not exceed six 1-hour emission averages in a 24-hour block. During this activity, the gas turbine shall operate at FSNL. {Permitting Note: This is a period maintenance activity required by the manufacturer and TEC's insurance carrier. It is expected to occur approximately once per year, per CT, at a minimum.}

Mr. Jeffery F. Koerner, P.E. June 18, 2004 Page 5 of 5

TEC appreciates your consideration in this matter and if you have any questions, please call me at (813) 228-4302.

Sincerely,

Greer Briggs

Environmental Engineer

Environmental, Health & Safety

EHS\gm\GMB189

Attachments

c/att: Mr. Jerry Kissel, FDEP-SWD

Mr. Jerry Campbell, EPCHC Mr. Jim Little, EPA Region 4

Mr. John Bunyak, NPS

Attachment A Responsible Official Certification Professional Engineer Certification

Responsible Official Certification

I hereby certify that the Minor Modifications to the Prevention of Significant Deterioration (PSD) Application, Condition 17, being submitted for Bayside Power Station is authentic and accurate to the best of my knowledge.

Date: 6/18/04

Signature: World My

Wade A. Maye General Manager

H.L. Culbreath Bayside Power Station

TAMPA ELECTRIC COMPANY H.L. CULBREATH BAYSIDE POWER STATION MODIFICATIONS TO PERMIT PSD-FL-301A

Professional Engineer Certification

Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, the information presented in the Tampa Electric Company (TEC) response to the Department's Request for Additional Information (RAI) dated March 19, 2004 concerning minor modifications to Permit No. PSD-FL-301A are true, accurate, and complete based on my review of material provided by TEC engineering and environmental staff; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this submittations true, accurate, and complete and are either based upon reasonable dechniques available for calculating emissions or, for emission estimates of air pollutants not regulated for an emissions unit, based solely upon the materials, information and colculations provided with this certification.

Data

* Certification is applicable to the Tampa Electric Company (TEC) response to the Department's Request for Additional Information (RAI) dated March 19, 2004 concerning minor modifications to Permit No. PSD-FL-301A.

ATTACHMENT D (REVISED)

STEAM TURBINE COLD START-UP PLAN

ST COLD START-UP

Below is the ST cold startup procedure for Bayside:

1. Fire the CT to minimum load of 10 MW to begin the steam turbine steam line warm-up. The cold startup process requires that 10 MW be maintained to keep the exhaust gas temperatures to a minimum during the warm-up period.

10 MW

Approximately 1 hour*

2. Warm the main steam, and hot reheat lines to the steam turbine.

10 MW

Approximately 8 to 10 hours*

3. The steam turbine is heated slowly, such that the rotating and stationary elements can heat and grow at the same rate. The steam turbine rotor must then be allowed to heat up such that the temperature differential between the inner bore and surface meet stress requirements. The CT remains at low MWs to ensure the steam temperatures are kept low, so that the steam turbine is not heated too quickly.

10 MW

Approximately 2 to 4 hours*

4. The steam turbine must complete a low load soak. This allows the steam turbine to grow while the steam turbine is rolling.

10 MW

Approximately 1 hour*

- 5. The cold reheat line is then heated up. These lines cannot be heated up until the steam turbine is rolling because they return to the HRSG.
- 6. CT load can be increased to bring the steam turbine load up and maintain emissions.

35 MW to Max

Total: 12 to 16 hours*

* Cold steam turbine startup times vary depending on the steam turbine metal temperatures.

ATTACHMENT E (REVISED)

STEAM TURBINE WARM START-UP PLAN

ST WARM START-UP

Below is the ST warm startup procedure for Bayside:

1. Fire the CT to minimum load of 10 MW to begin the steam turbine steam line warm-up. The cold startup process requires that 10 MW be maintained to keep the exhaust gas temperatures to a minimum during the warm-up period.

10 MW

Approximately 1 hour*

2. Warm the main steam, and hot reheat lines to the steam turbine.

10 MW

Approximately 2 to 4 hours*

3. The steam turbine is heated slowly, such that the rotating and stationary elements can heat and grow at the same rate. The steam turbine rotor must then be allowed to heat up such that the temperature differential between the inner bore and surface meet stress requirements. The CT remains at low MWs to ensure the steam temperatures are kept low, so that the steam turbine is not heated too quickly.

10 MW

Approximately 1 to 2 hours*

4. The steam turbine must complete a low load soak. This allows the steam turbine to grow while the steam turbine is rolling.

10 MW

Approximately 1 hour*

- 5. The cold reheat line is then heated up. These lines cannot be heated up until the steam turbine is rolling because they return to the HRSG.
- 6. CT load can be increased to bring the steam turbine load up and maintain emissions.

35 MW to Max

Total: 5 to 8 hours*

* Warm steam turbine startup times vary depending on the steam turbine metal temperatures.

ATTACHMENT H

OPERATIONAL DATA

COLD START-UP

CO, NOx EMISSIONS & GAS TURBINE LOAD (MW)
FIRST STAGE METAL TEMPERATURE

Tampa Electric Company Bayside CT2C Hillsborough County, Florida

Today's Date: 03/18/2004

Time: 13:08:07

Reporting Period Day: 12/21/2003

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	%	ppm	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0100	4.0	3.6	0.011	3.0	1.2	1.0	121.2	1379.6
0200	4.0	3.6	0.011	3.0	1.2	1.0	143.0	1536.7
0300	4.0	3.6	0.011	3.0	1.2	1.0	161.0	1674.1
0400	4.0	3.6	0.011	3.0	1.2	1.0	157.0	1643.1
0500	4.0	3.5	0.011	2.9	1.2	1.0	148.8	1581.1
0600	4.0	3.6	0.011	3.0	1.3	1.1	146.1	1563.6
0700	4.0	3.5	0.011	2.9	1.2	1.0	132.8	1463.0
0800	4.0	3.6	0.011	3.0	1.2	1.0	118.5	1363.7
0900	4.0	3.5	0.011	2.9	1.2	1.0	128.9	1434.6
1000	4.0	3.5	0.011	2.9	1.2	1.0	161.9	1684.2
1100	4.0	3.6	0.011	3.0	1.1	0.9	165.1	1711.7
1200	3.0	16.3	0.067	18.3	230.7	259.2	68.5	863.9
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2200	0.01	0.01	0.000	0.0	0.0.	0.0	0.0	0.0
2300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
AVG	2.0	2.3	0.008	2.1	10.2	11.3	68.9	745.8

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	2TMITI914	Start Time	Stop Time	Interv
21-Dec-03 00:00:00	877.04425	12/21/2003 0:00	12/21/2003 23:00	1 hr
21-Dec-03 01:00:00	878.81073			
21-Dec-03 02:00:00	878.65863			
21-Dec-03 03:00:00	868.7417			
21-Dec-03 04:00:00	876.21997			
21-Dec-03 05:00:00	876.21265			
21-Dec-03 06:00:00	876.87433			
21-Dec-03 07:00:00	879.38959			
21-Dec-03 08:00:00	879.25549			
21-Dec-03 09:00:00				
21-Dec-03 10:00:00				
21-Dec-03 11:00:00				
21-Dec-03 12:00:00				
21-Dec-03 13:00:00	860.64825			
21-Dec-03 14:00:00	854.90808			
21-Dec-03 15:00:00	848.87048			
21-Dec-03 16:00:00	842.13837			
21-Dec-03 17:00:00	835.17279			
21-Dec-03 18:00:00	828.12909			
21-Dec-03 19:00:00	821.07727	,		
21-Dec-03 20:00:00	813.89203			
21-Dec-03 21:00:00	806.5368			
21-Dec-03 22:00:00	799.06482			
21-Dec-03 23:00:00	792.04169			

Interval

Tampa Electric Company Bayside CT1C Hillsborough County, Florida

Today's Date: 08/15/2003 Time: 14:09:49

Reporting Period Day: 07/23/2003

Time	CO2 %	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP
0100 0200 0300	4.1 4.1 4.1	3.7 3.8	0.011 0.012	3.0	1.1	0.9	137.6 124.2	1543.2 1437.8
0400	4.1	3.6 3.7	0.011	3.0	1.1	0.9	101.0	1269.2 1249.4
0500 0600	4.1 4.1	3.7 3.6	0.011 0.011	3.0 3.0	1.1 1.1	0.9 0.9	97.2 94.9	1243.6 1227.2
0700 0800	4.1 4.1	3.6 3.7	0.011 0.011	3.0 3.0	$1.1 \\ 1.1$	0.9 0.9	98.7 118.2	1253.2 1395.0
0900 1000	4.1	3.7 3.7	0.011	3.0	1.1 1.1	0.9 0.9	103.5 105.9	1284.5 1304.5
1100	4.1	3.7 3.7	0.011	3.0	1.1	0.9	147.3 106.0	1630.7 1305.8
1300 1400	4.1	3.6 14.7	0.011	3.0	1.0	0.8	125.7	1450.0 1200.5
1500	2.1	20.1	0.119	32.3	192.0	308.2	8.7	492.3
1600 1700	2.6 4.0	27.3 11.7	0.130 0.036	35.4 9.9	269.6 14.2	349.5 12.0	20.9 116.4	612.6 1381.6
1800 1900	$4.1 \\ 4.1$	3.7	0.011 0.011	3.0 3.0	1.1	0.9 0.8	130.3 124.8	1482.6 1442.5
2000 2100	4.1 4.1	3.6 3.8	0.011 0.012	3.0 3.1	1.0 1.1	0.8 0.9	112.3 139.1	1348.4 1555.8
2200 2300	4.1 4.1	3.7 3.6	0.011	3.0	1.1 1.1	0.9 0.9	114.3 109.4	1361.4 1329.3
2400	4.1	3.7	0.011	3.0	1.0	0.8	100.9	1267.8
AVG	3.9	6.1	0.023	6.3	25.8	33.2	105.4	1294.5

Operating Hours: 24

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	1-TMIT1913	
23-Jul-03 00:00:00	808.56604	
23-Jul-03 01:00:00	813.14178	
23-Jul-03 02:00:00	811.56506	
23-Jul-03 03:00:00	810.112	
23-Jul-03 04:00:00	807.97107	
23-Jul-03 05:00:00	807.55798	
23-Jul-03 06:00:00	807.09735	
23-Jul-03 07:00:00	806.87469	
23-Jul-03 08:00:00	806.93512	
23-Jul-03 09:00:00	805.85852	
23-Jul-03 10:00:00	802.90369	
23-Jul-03 11:00:00	808.93011	
23-Jul-03 12:00:00	814.32025	
23-Jul-03 13:00:00	810.18719	
23-Jul-03 14:00:00	810.3053	
23-Jul-03 15:00:00	827.19604	
23-Jul-03 16:00:00	823.6026	
23-Jul-03 17:00:00	748:15338	
23-Jul-03 18:00:00	798.01141	
23-Jul-03 19:00:00	815.52441	
23-Jul-03 20:00:00	816.77875	
23-Jul-03 21:00:00	814.08789	
23-Jul-03 22:00:00	818.15149	
23-Jul-03 23:00:00	814.6557	

Start Time Stop Time Interval 7/23/2003 0:00 7/23/2003 23:00 1 hr

Tampa Electric Company Bayside CT1A Hillsborough County, Florida

Today's Date: 07/16/2003

Time: 09:30:46

Reporting Period Day: 06/02/2003

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	\mathtt{HTIP}
	%	ppm	lb/mmBtu	@15% O2	ppm	@15% O2	MW	lb/mmBtu
0100	4.2	3.7	0.011	3.0	0.4	0.3	140.2	1523.3
0200	4.2	3.7 .	0.011	3.0	0.4	0.3	139.5	1516.3
0300	4.2	3.7	0.011	3.0	0.4	0.3	123.3	1390.0
0400	4.2	3.7	0.011	3.0	0.4	0.3	126.0	1410.6
0500	4.2	3.8	0.011	3.0	0.4	0.3	115.8	1335.3
0600	4.2	3.7	0.011	3.0	0.3	0.2	134.8	1478.7
0700	4.2	3.8	0.011	3.0	0.4	0.3	117.7	1350.0
0800	4.2	3.8	0.011	3.0	0.4	0.3	134.9	1483.8
0900	4.2	3.7	0.011	3.0	0.4	0.3	147.7	1584.4
1000	4.2	3.7	0.011	3.0	0.4	0.3	149.5	1598.6
1100	4.1	3.7 '	0.011	3.0	0.4	0.3	142.0	1536.3
1200	4.2	3.7	0.011	3.0	0.5	0.4	141.0	1527.9
1300	4.2	3.7	0.011	3.0	0.5	0.4	135.1	1479.2
1400	4.1	3.7	0.011	3.0	0.5	0.4	121.9	1375.8
1500	4.1	3.7	0.011	3.0	0.5	0.4	144.8	1556.4
1600	4.1	3.7	0.011	3.0	0.5	0.4	148.5	1588.0
1700	4.1	3.8	0.012	3.1	0.4	0.3	145.1	1557.9
1800	4.2	3.7	0.011	3.0	0.4	0.3	150.7	1609.5
1900	2,5	23.3	0.116	31.4	132.1	178.1	23.2	595.4
2000	2.7	29.7	0.137	37.1	254.6	317.8	25.9	637.4
2100	2.4	25.7	0.133	36.1	231.6	325.3	16.3	553.2
2200	3.7	26.0	0.087	23.7	152.7	139.1	88.1	1135.8
2300	4.2	3.7	0.011	3.0	0.4	0.3	153.9	1637.4
2400	4.2	3.8	0.011	3.0	0.5	0.4	155.2	1647.8
				1				
AVG	4.0	7.5	0.029	7.9	32.5	40.3	121.7	1379.5

Operating Hours: 24

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	1-TMITI913
02-Jun-03 00:00:00	814.1225
02-Jun-03 01:00:00	814.55634
02-Jun-03 02:00:00	815.64783
02-Jun-03 03:00:00	816.49811
02-Jun-03 04:00:00	815.31384
02-Jun-03 05:00:00	814.98389
02-Jun-03 06:00:00	813.46808
02-Jun-03 07:00:00	814.85425
02-Jun-03 08:00:00	812.08832
02-Jun-03 09:00:00	815.60425
02-Jun-03 10:00:00	816.76758
02-Jun-03 11:00:00	816.61078
02-Jun-03 12:00:00	815.50848
02-Jun-03 13:00:00	817.50909
02-Jun-03 14:00:00	815.37854
02-Jun-03 15:00:00	814.12848
02-Jun-03 16:00:00	817.15289
02-Jun-03 17:00:00	817.51141
02-Jun-03 18:00:00	828.61475
02-Jun-03 19:00:00	830.50244
02-Jun-03 20:00:00	829.25977
02-Jun-03 21:00:00	815.77869
02-Jun-03 22:00:00	759.52209
02-Jun-03 23:00:00	756.98108

Start Time Stop Time Interval 6/2/2003 0:00 6/2/2003 23:00 1 hr

Tampa Electric Company Bayside CT1B Hillsborough County, Florida

Today's Date: 03/18/2004 Time: 12:57:04

Reporting Period Day: 01/19/2004

Time	CO2 %	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	0.07	0 0 7	0.000	0 0		0 0	0 0	2 2
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	. 0.0I	0.000	0.0	0.0	0.0	0.0	0.0
1100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2000	2.0	23.2	0.144	39.1	461.7	778.1	4.5	451.5
2100	2.3	27.7	0.150	40.6	785.2	1150.7	9.7	563.8
2200	2.3	27.8	0.150	40.7	781.3	1145.0	9.7	564.0
2300	2.6	34.7	0.166	45.0	595.3	771.8	17.2	632.1
2400	2.3	28.9	0.156	42.4	786.4	1152.5	9.7	566.6
AVG	2.3	28.5	0.153	41.6	682.0	999.6	10.2	555.6

Operating Hours: 5

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	1-TMITI913	Start Time	Stop Time		Interv
19-Jan-04 00:00:00		1/19/2004 0:00	•		
19-Jan-04 01:00:00		17 10/200 1 0.00	1710720042	20.00	• • • • •
19-Jan-04 02:00:00					
19-Jan-04 03:00:00					
19-Jan-04 04:00:00					
19-Jan-04 05:00:00					
19-Jan-04 06:00:00	418.78479				
19-Jan-04 07:00:00					
19-Jan-04 08:00:00	411.68439				
19-Jan-04 09:00:00	408.30667				
19-Jan-04 10:00:00	404.66486				
19-Jan-04 11:00:00	401.15854				
19-Jan-04 12:00:00	397.94122				
19-Jan-04 13:00:00	394.51248				
19-Jan-04 14:00:00	391.13638				
19-Jan-04 15:00:00	387.96725				
19-Jan-04 16:00:00	384.79755				
19-Jan-04 17:00:00	381:94336				
19-Jan-04 18:00:00	378.46954				
19-Jan-04 19:00:00	375.2991				
19-Jan-04 20:00:00	300.74966				
19-Jan-04 21:00:00	315.97156				
19-Jan-04 22:00:00	307.60596				
19-Jan-04 23:00:00	472.35843				

Interval

Tampa Electric Company Bayside CT1B Hillsborough County, Florida

Reporting Period

Day: 01/20/2004

Today's Date: 03/18/2004

Time: 12:57:18

Daily Emissions Log								
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	%	ppm	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0100	2.3	28.6	0.154	41.9	787.1	1153.5	9.7	567.5
0,200	2.2	28.8	0.163	44.1	788.7	1208.4	9.7	568.7
0300	3.1	39.0	0.156	42.4	317.1	344.8	62.7	1023.1
0400	3.8	3.1	0.010	2.7	2.0	1.8	135.2	1632.5
0500	3.7	3.2	0.011	2.9	2.0	1.8	120.1	1492.3
0600	3.5	3.2	0.011	3.1	1.9	1.8	113.6	1437.7
0700	3.5	3.1	0.011	3.0	1.9	1.8	129.6	1572.9
0800	3.5	3.2	0.011	3.1	1.9	1.8	129.7	1572.1
0900	3.5	3.1	0.011	3.0	2.0	1.9	129.7	1572.3
1000	2.9	27.5	0.118	32.0	180.6	209.9	56.3	937.8
1100	4.0	19.6	0.061	16.5	6.3	5.3	137.9	1543.4
1200	4.0	3.7	0.011	3.1	1.9	1.6	158.5	1699.0
1300	4.0	3.6	0.011	3.0	1.9	1.6	160.9	1721.8
1400	3.9	3.5	0.011	3.0	1.9	1.6	136.6	1523.8
1500	3.9	3.5	0.011	3.0	1.9	1.6	141.2	1561.0
1600	3.9	3.5	0.011	3.0	1.9	1.6	116.7	1372.4
1700	3.9	3.5	0.011	3.0	1.9	1.6	138.2	1536.7
1800	3.9	3.6	0.011	3.1	1.9	1.6	107.3	1308.1
1900	3.9	3.4	0.011	2.9	1.9	1.6	121.9	1414.3
2000	4.0	3.5	0.011	2.9	1.9	1.6	167.2	1776.2
2100	4.0	3.5	0.011	2.9	1.9	1.6	171.6	1811.0
2200	4.0	3.6	0.011	3.0	1.9	1.6	154.3	1665.7
2300	4.0	3.5	0.011	2.9	1.9	1.6	155.8	1680.8
2400	2.3	24.6	0.133	36.1	424.4	622.0	20.3	425.9
				1				

Operating Hours: 24

3.6 9.6

AVG

Legend

C - Out of Control

0.041 11.1 105.8

D - Out of Service

I - Insufficient Data

148.9

116.0

1392.4

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	1-TMITI913
20-Jan-04 00:00:00	528.62134
20-Jan-04 01:00:00	571.90521
20-Jan-04 02:00:00	598.42163
20-Jan-04 03:00:00	682.43396
20-Jan-04 04:00:00	750.35779
20-Jan-04 05:00:00	758.04724
20-Jan-04 06:00:00	755.56116
20-Jan-04 07:00:00	721.62305
20-Jan-04 08:00:00	763.12775
20-Jan-04 09:00:00	766.09534
20-Jan-04 10:00:00	746.9989
20-Jan-04 11:00:00	756.87634
20-Jan-04 12:00:00	762.55011
20-Jan-04 13:00:00	763.55096
20-Jan-04 14:00:00	762.16669
20-Jan-04 15:00:00	762.14581
20-Jan-04 16:00:00	761.43738
20-Jan-04 17:00:00	761.94971
20-Jan-04 18:00:00	761.67957
20-Jan-04 19:00:00	768.18457
20-Jan-04 20:00:00	768.62769
20-Jan-04 21:00:00	768.43311
20-Jan-04 22:00:00	768.97345
20-Jan-04 23:00:00	765.78809

Start Time Stop Time Interval 1/20/2004 0:00 1/20/2004 23:00 1 hr

Tampa Electric Company

Bayside CT2A

Hillsborough County, Florida

Today's Date: 03/18/2004 Time: 13:07:10

Reporting Period Day: 01/06/2004

Time	CO2	NOx	Daily E NOx lb/mmBtu	Missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	2.0	28.9	0.179	48.7	160.7	270.8	9.5	452.8
0900	2.1	40.9	0.242	65.6	113.0	181.4	9.6	505.5
1000	2.1	39.9	0.236	64.0	110.8	177.8	9.7	504.3
.1100	2.1	40.2	0.238	64.5	108.3	173.8	9.6	502.4
1200	2.1	40.5	0.239	65.0	105.9	170.0	9.7	502.1
1300	2.1	40.9	0.242	65.6	102.5	164.5	9.7	500.6
1400	2.1	40.0	0.237	64.2	106.3	170.6	9.6	500.8
1500	2.2	40.9	0.231	62.7	137.0	209.9	12.0	524.2
1600	3.8	29.1	0.095	25.8	53.7	47.6	89.0	1161.6
1700	4.0	10.6	0.033	8.9	6.4	5.4	129.9	1464.0
1800	4.1	3.7	0.011	3.0	0.2	0.2	165.5	1735.8
1900	4.1	3.7	0.011	3.0	0.2	0.2	166.5	1742.3
2000	4.1	3.6	0.011	3.0	0.2	0.2	167.6	1748.7
2100	4.1	3.6	0.011	3.0	0.2	0.2	169.1	1760.5
2200	4.0	3.6	0.011	3.0	0.2	0.2	170.1	1767.3
2300	4.0	3.6	0.011	3.0	0.2	0.2	170.1	1764.8
2400	4.0	3.6	0.011	3.0	0.2	0.2	170.1	1765.0
AVG	2.2	15.7	0.085	23.2	41.9	65.6	61.6	787.6

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	2TMITI914	Start Time	Stop Time	Interv
06-Jan-04 00:00:00	172.83743	1/6/2004 0:00	1/6/2004 23:00	1 hr
06-Jan-04 01:00:00	173.40399			
06-Jan-04 02:00:00	173.67232			
06-Jan-04 03:00:00	173.88994			
06-Jan-04 04:00:00	163.99524			
06-Jan-04 05:00:00	166.75822			
06-Jan-04 06:00:00	168.49409			
06-Jan-04 07:00:00	163.64369			
06-Jan-04 08:00:00	170.65755			
06-Jan-04 09:00:00	174.19032			
06-Jan-04 10:00:00	177.29666			
06-Jan-04 11:00:00	180.41318			
06-Jan-04 12:00:00	185.40952			
06-Jan-04 13:00:00	443.77582			
06-Jan-04 14:00:00	555.63586			
06-Jan-04 15:00:00	603.31732			
06-Jan-04 16:00:00	681.26288			
06-Jan-04 17:00:00	- 808.32892			
06-Jan-04 18:00:00	859.55664			
06-Jan-04 19:00:00	875.62537			
06-Jan-04 20:00:00	877.56909			
06-Jan-04 21:00:00	877.83569			
06-Jan-04 22:00:00	877.93951			
06-Jan-04 23:00:00	876.39276			

Interval

Tampa Electric Company Bayside CT1C Hillsborough County, Florida

Today's Date: 08/15/2003 Time: 14:07:34 Reporting Period Day: 07/20/2003

Time	CO2	NOx	NOx	missions NOx	CO	CO	Gen	HTIP
	%	ppm	lb/mmBtu	@15% O2	ppm	@15% 02	MW	lb/mmBtu
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	1.0	8.8	0.109	29.7	126.8	427.4	5.6	239.0
1200	2.4	32.6	0.169	45.8	364.1	511.4	14.8	531.8
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2000	0.9	10.1	0.125	34.0	88.1	297.0	2.3	174.4
2100	2.2	37.1	0.209	56.8	121.3	185.8	10.0	511.7
2200	2.2	37.9	0.214	58.1	119.4	182.9	10.1	511.3
2300	2.2	37.3	0.211	57.1	124.5	190.8	10.0	511.4
2400	3.1	48.6	0.195	52.8	168.0	182.7	40.9	793.3
AVG	2.0	30.3	0.176	47.8	158.9	282.6	13.4	467.6

Operating Hours: 7

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

X - Calibration Expired

1st Stage Turbine Metal Temperature

Time Tag	1-TMITI913
20-Jul-03 00:00:00	523.34045
20-Jul-03 01:00:00	522.87823
20-Jul-03 02:00:00	519.93878
20-Jul-03 03:00:00	517.44818
20-Jul-03 04:00:00	516.15131
20-Jul-03 05:00:00	509.05551
20-Jul-03 06:00:00	505.77679
20-Jul-03 07:00:00	502.48962
20-Jul-03 08:00:00	Bad Input
20-Jul-03 09:00:00	496.22437
20-Jul-03 10:00:00	492.81625
20-Jul-03 11:00:00	489.82413
20-Jul-03 12:00:00	483.48001
20-Jul-03 13:00:00	455.13492
20-Jul-03 14:00:00	434.61349
20-Jul-03 15:00:00	430.13196
20-Jul-03 16:00:00	435.237
20-Jul-03 17:00:00	438:52374
20-Jul-03 18:00:00	445.13428
20-Jul-03 19:00:00	428.19708
20-Jul-03 20:00:00	417.16946
20-Jul-03 21:00:00	417.23978
20-Jul-03 22:00:00	432.93381
20-Jul-03 23:00:00	520.98822

Start Time Stop Time Interval 7/20/2003 0:00 7/20/2003 23:00 1 hr

Reporting Period

Tampa Electric Company Bayside CT1C Hillsborough County, Florida

Today's Date: 03/18/2004

Time: 12:56:18

Day: 12/22/2003 Daily Emissions Log Time CO2 NOx NOx NOx CO CO · Gen HTIP 1b/mmBtu @15% 02 @15% 02 MW lb/mmBtu nnmmaa

	8	ppm	16/mmBtu	@15% 02	ppm	@15% O2	MM	TD/WWBEA
0100	0.4	0.6	0.007	2.0	76.7	258.5	0.0	78.4
0200	2.1	35.6	0.211	57.1	133.4	214.1	9.2	512.7
0300	1.7	30.2	0.221	59.9	248.9	493.5	5.0	313.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.0I	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	2.1	32.2	0.190	51.7	291.1	467.2	14.2	507.4
1100	2.1	34.3	0.203	55.1	112.5	180.6	7.3	496.6
1200	2.1	27.4	0.162	44.0	104.7	168.1	9.7	510.9
1300	2.1	27.6	0.163	44.3	102.9	165.2	9.7	510.2
1400	2.1	27.9	0.165	44.8	101.4	162.8	9.6	509.5
1500	2.1	28.3	0.167	45.4	100.8	161.8	9.7	509.7
1600	2.4	32.4	0.168	45.5	372.0	522.5	17.3	589.8
1700	2.9	35.6	0.152	41.4	519.6	603.9	27.8	692.5
1800	2.9	37.3	0.160	43.4	471.0	547.4	30.0	
1900	4.0	22.0	0.068	18.5	22.3	18.8	92.7	1208.7
2000	4.2	3.7	0.011	3.0	0.8	0.6	142.3	1574.3
2100	4.2	3.6	0.011	2.9	0.7	0.6	158.4	1703.1
2200	4.2	3.6	0.011	2.9	0.7	0.6	159.8	1714.2
2300	4.2	3.6	0.011	2.9	0.7	0.6	158.3	1700.1
2400	4.2	3.6	0.011	2.9	0.7	0.6	154.8	1671.2
ALIC	2 0	21 6	0 116	21 [147 0	220 4	E C 1	061 7
AVG	2.8	21.6	0.116	31.5	147.8	220.4	56.4	861.7

Operating Hours: 18

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Time Tag	1-TMITI913
22-Dec-03 00:00:00	193.67216
22-Dec-03 01:00:00	192.8961
22-Dec-03 02:00:00	220.38617
22-Dec-03 03:00:00	213.09689
22-Dec-03 04:00:00	205.43056
22-Dec-03 05:00:00	198.81625
22-Dec-03 06:00:00	195.7123
22-Dec-03 07:00:00	192.72508
22-Dec-03 08:00:00	189.5361
22-Dec-03 09:00:00	189.07248
22-Dec-03 10:00:00	191.12173
22-Dec-03 11:00:00	203.9184
22-Dec-03 12:00:00	213.26074
22-Dec-03 13:00:00	220.71762
22-Dec-03 14:00:00	267.12967
22-Dec-03 15:00:00	347.61676
22-Dec-03 16:00:00	438.78586
22-Dec-03 17:00:00	498.91794
22-Dec-03 18:00:00	556.38654
22-Dec-03 19:00:00	677.98895
22-Dec-03 20:00:00	755.04926
22-Dec-03 21:00:00	781.87079
22-Dec-03 22:00:00	792.50751
22-Dec-03 23:00:00	794.34637

Start Time Stop Time Interval 12/22/2003 0:00 12/22/2003 23:00 1 hr

Tampa Electric Company Bayside CT2C Hillsborough County, Florida

Today's Date: 03/18/2004 Time: 13:08:24

Reporting Period Day: 02/08/2004

Time	CO2	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	2.1	44.2	0.261	70.9	0.0	0.0	10.0	489.6
0200	2.1	37.7	0.223	60.5	0.0	0.0	10.0	489.3
0300	2.1	44.4	0.263	71.3	0.0	0.0	10.0	489.4
0400	2.0	44.7	0.278	75.3	0.0	0.0	10.0	489.3
0500	2.0	44.7	0.278	75.3	0.0	0.0	9.9	488,5
0600	2.7	52.7	0.242	65.8	0.0	0.0	24.1	626.7
0700	2.9	57.1	0.244	66.4	0.0	0.0	35.0	728.3
0800	3.5	43.3	0.154	41.7	0.0	0.0	89.9	1144.7
0900	4.0	4.3	0.013	3.6	0.0	0.0	179.1	1807.6
1000	4.0	3.7	0.011	3.1	0.0	0.0	178.5	1803.0
1100	4.0	3.6	0.011	3.0	0.0	0.0	161.8	1678.8
1200	4.0	3.6	0.011	3.0	0.0	0.0	123.8	1394.7
1300	4.1	3.6	0.011	3.0	0.8	0.7	149.8	1578.9
1400	4.1	3.6	0.011	3.0	0.8	0.7	136.6	1480.9
1500	4.0	3.6	0.011	3.0	0.8	0.7	119.5	1357.7
1600	4.0	3.5	0.011	2.9	0.8	0.7	102.9	1244.4
1700	3.9	3.5	0.011	3.0	0.8	0.7	102.4	1240.0
1800	4.0	3.5	0.011	2.9	0.9	0.8	117.7	1343.2
1900	4.0	3.6	0.011	3.0	0.9	0.8	152.2	1597.9
2000	4.0	3.6	0.011	3.0	0.8	0.7	174.1	1767.8
2100	4.0	3.6	0.011	3.0	0.9	0.8	166.0	1700.1
2200	4.0	3.5	0.011	2.9	0.9	0.8	147.0	1555.0
2300	4.0	3.6	0.011	3.0	0.9	0.8	139.9	1505.5
2400	4.0	3.5	0.011	2.9	0.9	0.8	135.8	1480.7
AVG	3.5	17.8	0.088	24.0	0.4	0.4	103.6	1228.4

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

 ${\tt X}$ - Calibration Expired

	Time Tag	2TMITI914	Sta	art Time	Sto	op Time		Interv
	08-Feb-04 00:00:00	486.25464		2/8/2004 0:00		2/8/2004	23:00	1 hr
	08-Feb-04 01:00:00	479.83585						
	08-Feb-04 02:00:00	472.52377						
	08-Feb-04 03:00:00	465.26883						
	08-Feb-04 04:00:00	458.53574						
•	08-Feb-04 05:00:00	446.51157						
	08-Feb-04 06:00:00	552.19751						
	08-Feb-04 07:00:00	608.5249						
	08-Feb-04 08:00:00	759.43701						
	08-Feb-04 09:00:00	809.15668						
	08-Feb-04 10:00:00	819.2467						
	08-Feb-04 11:00:00	836.25482						
	08-Feb-04 12:00:00	857.69373						
	08-Feb-04 13:00:00	862.83539						
	08-Feb-04 14:00:00	863.76898						
	08-Feb-04 15:00:00	860.75122						
	08-Feb-04 16:00:00	852.08972						
	08-Feb-04 17:00:00	848.22351						
	08-Feb-04 18:00:00	849.16223						
	08-Feb-04 19:00:00	867.57098						
	08-Feb-04 20:00:00	868.79761						
	08-Feb-04 21:00:00	866.26959						
	08-Feb-04 22:00:00	868.6272						
	08-Feb-04 23:00:00	862.45337						

Interval

Tampa Electric Company Bayside CT2C Hillsborough County, Florida

Today's Date: 03/18/2004 Time: 13:09:30

Reporting Period Day: 01/27/2004

Time	CO2 %	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	1.4	20.9	0.185	50.3	119.2	287.0	5.5	296.1
0200	2.2	39.0	0.220	59.8	122.4	187.5	10.0	484.5
0300	2.1	39.1	0.231	62.8	120.1	192.8	10.0	482.2
0400	2.1	40.5	0.239	65.0	119.0	191.0	10.6	487.7
0500	2.4	41.3	0.214	58.0	480.9	675.4	16.5	556.8
0600	2.2	21.7	0.122	33.2	995.6	1525.4	15.0	571.8
0700	2.5	32.4	0.161	43.7	771.4	1040.1	22.2	626.9
0800	4.1	10.7	0.032	8.8	26.4	21.7	141.8	1530.4
0900	4.1	3.8	0.012	3.1	0.9	0.7	164.0	1695.8
1000	4.1	3.7	0.011	3.0	0.9	0.7	163.8	1695.4
1100	4.1	3:7	0.011	3.0	0.9	0.7	163.5	1691.1
1200	4.1	3.7	0.011	3.0	0.9	0.7	162.8	1685.3
1300	4.1	3.7	0.011	3.0	0.9	0.7	163.1	1686.5
1400	4.1	3.7	0.011	3.0	0.9	0.7	163.8	1692.4
1500	4.1	3.6	0.011	3.0	0.9	0.7	164.1	1694.0
1600	4.1	3.7	0.011	3.0	0.9	0.7	165.3	1702.5
1700	4.1	3.7	0.011	3.0	0.9	0.7	166.1	1707.1
1800	4.1	3.7	0.011	3.0	0.9	0.7	167.7	1717.8
1900	4.1	3.6	0.011	3.0	0.9	0.7	169.0	1726.9
2000	4.0	3.6	0.011	3.0	0.9	0.8	169.1	1726.4
2100	4.0	3.6	0.011	3.0	0.9	0.8	169.1	1726.4
2200	4.0	3.6	0.011	3.0	0.9	0.8	169.0	1725.1
2300	4.0	3.6	0.011	3.0	0.9	0.8	170.4	1736.2
2400	4.0	3.6	0.011	3.0	0.9	0.8	171.1	1741.7
AVG	3.5	12.7	0.066	17.9	115.4	172.2	120.6	1349.5

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Time Tag	2TMITI914
27-Jan-04 00:00:00	537.93744
27-Jan-04 01:00:00	536.48969
27-Jan-04 02:00:00	533.25366
27-Jan-04 03:00:00	527.15588
27-Jan-04 04:00:00	520.63104
27-Jan-04 05:00:00	512.15588
27-Jan-04 06:00:00	502.96188
27-Jan-04 07:00:00	646.93066
27-Jan-04 08:00:00	786.42603
27-Jan-04 09:00:00	855.8606
27-Jan-04 10:00:00	873.52722
27-Jan-04 11:00:00	885.11975
27-Jan-04 12:00:00	884.78687
27-Jan-04 13:00:00	887.44672
27-Jan-04 14:00:00	889.50177
27-Jan-04 15:00:00	890.20917
27-Jan-04 16:00:00	890.2359
27-Jan-04 17:00:00	888.56934
27-Jan-04 18:00:00	887.96722
27-Jan-04 19:00:00	887.21753
27-Jan-04 20:00:00	884.31805
27-Jan-04 21:00:00	883.01379
27-Jan-04 22:00:00	882.54077
27-Jan-04 23:00:00	883.98035

Start Time Stop Time Interval 1/27/2004 0:00 1/27/2004 23:00 1 hr

Today's Date: 03/18/2004

Time: 13:07:30

Reporting Period Day: 01/10/2004

Time	CO2	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	0.0I	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2400	1.8	32.3	0.223	60.5	147.3	275.8	5.4	444.9
AVG	0.1	1.3	0.009	2.5	6.1	11.5	0.2	18.5

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Time Tag	2TMITI914		Start Time	Stop Time	Interv
10-Jan-04 00:00:00	531.00159		1/10/2004 0:00	1/10/2004 23:00	1 hr
10-Jan-04 01:00:00	527.13434				
10-Jan-04 02:00:00	522.82721				
10-Jan-04 03:00:00	518.74451				
10-Jan-04 04:00:00	514.67249				
10-Jan-04 05:00:00	510.59048				
10-Jan-04 06:00:00	506.84695				
10-Jan-04 07:00:00	502.72455				
10-Jan-04 08:00:00	498.9437				
10-Jan-04 09:00:00	494.98529				
10-Jan-04 10:00:00	491.22226				
10-Jan-04 11:00:00	487.3855				
10-Jan-04 12:00:00	483.5434				
10-Jan-04 13:00:00	479.83887				
10-Jan-04 14:00:00	475.83844				
10-Jan-04 15:00:00	471.89441				
10-Jan-04 16:00:00				•	
10-Jan-04 17:00:00	464.52017				
10-Jan-04 18:00:00	460.81195				
10-Jan-04 19:00:00	456.91046				
10-Jan-04 20:00:00					
10-Jan-04 21:00:00	449.75882	•			
10-Jan-04 22:00:00	445.88425				
10-Jan-04 23:00:00	438.05344				

Interval

Tampa Electric Company Bayside CT2A Hillsborough County, Florida

Today's Date: 03/18/2004 Time: 13:07:47

Reporting Period Day: 01/11/2004

Daily Emissions Log								
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	્ર	ppm	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0100	2.0	45.8	0.284	77.2	103.3	174.1	9.5	503.7
0200	2.0	45.2	0.281	76.2	103.3	174.1	9.6	503.9
0300	2.0	45.3	0.281	76.3	103.3	174.1	9.6	504.0
0400	2.1	46.3	0.274	74.3	187.4	300.8	13.1	538.2
0500	3.7	58.7	0.197	53.5	115.1	104.9	118.3	1368.7
0600	4.0	3.3	0.010	2.8	0.6	0.5	180.2	1821.1
0700	4.0	3.4	0.011	2.9	0.6	0.5	180.1	1820.8
0800	4.0	3.5	0.011	2.9	0.6	0.5	180.4	1822.0
0900	4.0	3.5	0.011	2.9	0.6	0.5	180.0	1819.0
1000	4.0	3.5	0.011	2.9	0.6	0.5	178.8	1810.9
1100	4.0	3.5	0.011	2.9	0.6	0.5	177.5	1801.0
1200	4.0	3.5	0.011	2.9	0.6	0.5	176.1	1790.2
1300	4.1	3.5	0.011	2.9	0.6	0.5	173.4	1769.5
1400	4.1	3.6	0.011	3.0	0.5	0.4	150.8	1598.9
1500	4.1	3.5	0.011	2.9	0.5	0.4	110.2	1292.5
1600	4.1	3.5	0.011	2.9	0.5	0.4	110.2	1292.2
1700	4.1	3.5	0.011	2.9	0.5	0.4	110.2	1292.7
1800	4.1	3.5	0.011	2.9	0.5	0.4	110.1	1292.1
1900	4.1	3.5	0.011	2.9	0.5	0.4	117.5	1344.0
2000	4.1	3.6	0.011	3.0	0.5	0.4	110.1	1293.1
2100.	4.1	3.5	0.011	2.9	0.5	0.4	109.9	1291.6
2200	4.1	3.5	0.011	2.9	0.5	0.4	109.8	1293.6
2300	4.1	3.5	0.011	2.9	0.5	0.4	109.9	1293.8
2400	4.1	3.5	0.011	2.9	0.5	0.4	109.8	1294.4
AVG	3.7	12.8	0.064	17.2	25.9	39.0	118.5	1352.2

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Time Tag	2TMITI914
11-Jan-04 00:0	0:00 438.77783
11-Jan-04 01:0	00:00 435.7222
11-Jan-04 02:0	0:00 429.62271
11-Jan-04 03:0	00:00 421.71561
11-Jan-04 04:0	0:00 533.30621
11-Jan-04 05:0	0:00 752.40442
11-Jan-04 06:0	0:00 841.04236
11-Jan-04 07:0	0:00 856.63446
11-Jan-04 08:0	0:00 864.33173
11-Jan-04 09:0	0:00 866.67072
11-Jan-04 10:0	0:00 869.47888
11-Jan-04 11:0	0:00 865.57513
11-Jan-04 12:0	0:00 828.9281
11-Jan-04 13:0	0:00 802.90704
11-Jan-04 14:0	0:00 856.17651
11-Jan-04 15:0	0:00 865.56702
11-Jan-04 16:0	0:00 874.54449
11-Jan-04 17:0	0:00 882.17993
11-Jan-04 18:0	0:00 883.39319
11-Jan-04 19:0	0:00 881.31354
11-Jan-04 20:0	00:00 881.69543
11 - Jan-04 21:0	0:00 885.11072
11-Jan-04 22:0	0:00 885.58539
11-Jan-04 23:0	0:00 885.38177

Start Time Stop Time Interval 1/11/2004 0:00 1/11/2004 23:00 1 hr

Tampa Electric Company Bayside CT1C Hillsborough County, Florida

Today's Date: 06/18/2004

Time: 12:56:07

Reporting Period Day: 04/29/2004

			Daily E	Emissions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	ક	ppm	lb/mmBtu	@15% O2	ppm	@15% 02	MW	lb/mmBtu
0000	1.9	25.0	0.163	44.4	137.1	243.2	6.4	431.7
0100	2.1	35.0	0.207	56.2	118.6	190.4	9.7	511.7
0200	2.1	32.3	0.191	51.8	122.0	195.8	9.7	511.8
0300	2.1	31.8	0.188	51.0	123.9	198.9	9.7	511.2
0400	2.1	31.7	0.187	50.9	125.2	201.0	9.7	509.4
`0500	2.1	31.0	0.183	49.8	127.9	205.3	9.7	509.0
0600	2.1	30.5	0.180	49.0	130.7	209.8	9.7	508.5
0700	3.6	26.3	0.091	24.6	146.0	136.7	57.5	913.0
0800	4.2	3.7	0.011	3.0	0.9	0.7	112.2	1341.1
0900	4.2	3.7	0.011	3.0	0.9	0.7	124.6	1438.7
1000	4.2	3.8	0.011	3.0	0.9	0.7	142.3	1579.6
1100	4.2	3.7	0.011	3.0	0.8	0.6	116.1	1363.5
1200	4.2	3.7	0.011	3.0	0.8	0.6	138.5	1547.1
1300	4.2	3.8	0.011	3.0	0.8	0.6	137.0	1532.1
1400	4.2	3.7	0.011	3.0	0.8	0.6	133.1	1495.1
1500	4.2	3.7	0.011	3.0	0.8	0.6	144.9	1590.8
1600	4.2	3.7	0.011	3.0	0.8	0.6	145.2	1592.1
1700	4.2	3.7	0.011	3.0	0.8	0.6	139.3	1540.8
1800	4.2	3.8	0.011	3.0	0.8	0.6	133.6	1497.0
1900	4.2	3.7	0.011	3.0	0.8	0.6	129.4	1463.8
2000	4.2	3.8	0.011	3.0	0.8	0.6	140.2	1547.3
2100	4.2	3.8	0.011	3.0	0.8	0.6	138.2	1532.5
2200	4.2	3.7	0.011	3.0	0.8	0.6	132.2	1487.1
2300	4.2	3.8	0.011	3.0	0.8	0.6	123.4	1419.3
	_		_	_				
AVG	3.6	12.6	0.065	17.7	43.5	66.3	93.8	1182.3

Operating Hours: 24

Legend

C - Out of Control
D - Out of Service
I - Insufficient Data

M - Maintenance Fault

A - Calibration Error X - Calibration Expired

Time Tag	1TMITI914	Start Time	Stop Time	Interval
29-Apr-04 00:00:00	129.4879	04/29/2004 0:00	04/29/2004 23:00	1 hr
29-Apr-04 01:00:00	129.792			
29-Apr-04 02:00:00	144.5206			
29-Apr-04 03:00:00	205.0604			
29-Apr-04 04:00:00	187.6278			
29-Apr-04 05:00:00	185.9981			
29-Apr-04 06:00:00	264.0794			
29-Apr-04 07:00:00	385.5679			
29-Apr-04 08:00:00	475.9723			
29-Apr-04 09:00:00	610.774			
29-Apr-04 10:00:00	742.0722			
29-Apr-04 11:00:00	790.0789			
29-Apr-04 12:00:00	855.5468			
29-Apr-04 13:00:00	868.0331			
29-Apr-04 14:00:00	884.2272			
29-Apr-04 15:00:00	902.0977			
29-Apr-04 16:00:00	903.5439			
29-Apr-04 17:00:00	904.8021			
29-Apr-04 18:00:00	904.8467			
29-Apr-04 19:00:00	905.6102			
29-Apr-04 20:00:00	906.8883			
29-Apr-04 21:00:00	901.9269			
29-Apr-04 22:00:00	903.8221			
29-Apr-04 23:00:00	904.2941			

=====

Tampa Electric Company Bayside CT1C Hillsborough County, Florida

Today's Date: 06/18/2004

Time: 12:58:59

Reporting Period Day: 06/09/2004

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	8	ppm	lb/mmBtu	@15% O2	ppm	@15% 02	MW	lb/mmBtu
0000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2000	1.9	23.9	0.156	42.4	172.3	305.7	7.9	454.1
2100	2.1	29.5	0.174	47.4	147.3	236.4	9.6	506.5
2200	2.1	29.6	0.175	47.5	144.7	232.3	9.7	507.0
2300	2.1	29.6	0.175	47.5	144.0	231.1	9.7	507.3
AVG	2.1	28.2	0.170	46.2	152.1	251.4	9.2	493.7

Operating Hours: 4

Legend

C - Out of Control D - Out of Service

I - Insufficient Data
M - Maintenance Fault

A - Calibration Error

Time Tag	1TMITI914	Start Time	Stop Time	Interval
09-Jun-04 00:00:00	192.6917	06/09/2004 0:00	06/09/2004 23:00	1 hr
09-Jun-04 01:00:00	207.0292			
09-Jun-04 02:00:00	210.4829			
09-Jun-04 03:00:00	212.1342			
09-Jun-04 04:00:00	213.053			
09-Jun-04 05:00:00	212.3121			
09-Jun-04 06:00:00	211.4458			
09-Jun-04 07:00:00	210.4979			
09-Jun-04 08:00:00	209.6631			
09-Jun-04 09:00:00	208.8756			
09-Jun-04 10:00:00	208.1934			
09-Jun-04 11:00:00	207.0546			
09-Jun-04 12:00:00	206.6532			
09-Jun-04 13:00:00	206.0576			
09-Jun-04 14:00:00	205.4225			
09-Jun-04 15:00:00	204.343			
09-Jun-04 16:00:00	204.0654			
09-Jun-04 17:00:00	203:2433			
09-Jun-04 18:00:00	202.7427			
09-Jun-04 19:00:00	201.9375			
09-Jun-04 20:00:00	201.1621			
09-Jun-04 21:00:00	200.6423			
09-Jun-04 22:00:00	198.8152			
09-Jun-04 23:00:00	244.9938			

Tampa Electric Company Bayside CT2D Hillsborough County, Florida

Today's Date: 06/18/2004

Time: 13:13:22

Reporting Period Day: 04/01/2004

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	8	mqq	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	. 0 . 0	0.0	. 0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1700	1.1	11.6	0.131	35.5	122.9	376.6	3.4	275.7
1800	2.2	41.7	0.235	63.9	112.6	172.5	9.9	504.4
1900	2.2	40.2	0.227	61.6	111.3	170.5	10.0	501.6
2000	2.2	40.7	0.230	62.4	113.3	173.6	9.9	501.0
2100	2.2	41.0	0.231	62.8	114.6	175.6	9.9	502.6
2200	2.2	42.3	0.239	64.8	112.2	171.9	10.6	508.8
2300	2.4	50.4	0.261	70.8	95.4	134.0	14.8	548.8
AVG	0.6	11.2	0.065	17.6	32.6	57.3	2.9	139.3

Legend

- C Out of Control D Out of Service
- I Insufficient Data
- M Maintenance Fault
- A Calibration Error X Calibration Expired

Time Tag	2TMITI914	Start Time	Stop Time	Interval
01-Apr-04 00:00:00	83.5609	04/01/2004 0:00	04/01/2004 23:00	1 hr
01-Apr-04 01:00:00	83.58434			
01-Apr-04 02:00:00	83.59222			
01-Apr-04 03:00:00	83.44766			
01-Apr-04 04:00:00	83.3894			
01-Apr-04 05:00:00	83.51685			
01-Apr-04 06:00:00	83.29934			
01-Apr-04 07:00:00	83.19507			
01-Apr-04 08:00:00	83.29495			
01-Apr-04 09:00:00	83.17194			
01-Apr-04 10:00:00	83.05524			
01-Apr-04 11:00:00	83.05865		•	
01-Apr-04 12:00:00	82.96213			
01-Apr-04 13:00:00	82.88602			
01-Apr-04 14:00:00	82.84801			
01-Apr-04 15:00:00	82.72683			
01-Apr-04 16:00:00	82.73185			
01-Apr-04 17:00:00	82.70339			
01-Apr-04 18:00:00	87.66535			
01-Apr-04 19:00:00	98.53315			
01-Apr-04 20:00:00	119.5432			
01-Apr-04 21:00:00	124.8019			
01-Apr-04 22:00:00	124.9209			
01-Apr-04 23:00:00	127.7539			

Tampa Electric Company Bayside CT2C Hillsborough County, Florida

> Reporting Period Day: 06/06/2004

Today's Date: 06/18/2004 Time: 13:21:57

							•	•
			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	co	CO	Gen	HTIP
	8	ppm	lb/mmBtu	@15% O2	ppm	@15% O2	MW	lb/mmBtu
•								
0000	4.1	3.7	0.011	3.0	1.2	1.0	157.9	1678.5
0100	4.1	3.7	0.011	3.0	1.2	1.0	157.8	1677.0
0200	4.1	3.7	0.011	3.0	1.2	1.0	158.4	1682.0
0300	4.1	3.7	0.011	3.0	1.2	1.0	158.9	1685.4
0400	4.1	3.7	0.011	3.0	1.2	1.0	159.2	1688.4
0500	4.1	3.6	0.011	3.0	1.2	1.0	147.2	1593.1
0600	4.1	3.6	0.011	3.0	1.2	1.0	110.1	1303.2
0700	4.1	3.6	0.011	3.0	1.2	1.0	110.1	1302.2
0800	4.1	3.6	0.011	3.0	1.2	1.0	117.8	1359.1
0900	4.1	3.7	0.011	3.0	1.2	1.0	124.6	1408.9
1000	4.1	3.7	0.011	3.0	1.1	0.9	125.1	1411.9
1100	4.1	3.7	0.011	3.0	1.1	0.9	132.1	1467.9
1200	4.1	3.7	0.011	3.0	1.1	0.9	140.2	1531.0
1300	4.1	3.7	0.011	3.0	1.1	0.9	140.1	1530.8
1400	4.1	3.7	0.011	3.0	1.1	0.9	120.9	1380.1
1500	4.1	3.7	0.011	3.0	1.1	0.9	120.1	1371.9
1600	4.1	3.7	0.011	3.0	1.1	0.9	124.1	1404.0
1700	4.1	3.7	0.011	3.0	1.1	0.9	129.4	1444.2
1800	4.1	3.7	0.011	3.0	1.1	0.9	110.7	1302.9
1900	4.1	3.6	0.011	3.0	1.1	0.9	110.0	1298.8
2000	3.9	11.8	0.038	10.2	118.6	102.5	91.3	1160.1
2100	2.2	17.5	0.099	26.8	995.7	1525.5	15.0	581.2
2200	2.7	39.8	0.183	49.7	456.0	569.3	25.6	652.7
2300	2.8	40.5	0.180	48.8	547.8	659.5	29.0	686.1
AVG	3.9	7.6	0.030	8.1	89.2	119.8	117.3	1358.4

Legend C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault A - Calibration Error

Time Tag	2TMITI914
06-Jun-04 00:00:00	862.10095
06-Jun-04 01:00:00	874.75781
06-Jun-04 02:00:00	871.64941
06-Jun-04 03:00:00	865.71338
06-Jun-04 04:00:00	865.41443
06-Jun-04 05:00:00	857.11456
06-Jun-04 06:00:00	837.84045
06-Jun-04 07:00:00	830.81506
06-Jun-04 08:00:00	825.04865
06-Jun-04 09:00:00	818.78497
06-Jun-04 10:00:00	812.25806
06-Jun-04 11:00:00	805.32465
06-Jun-04 12:00:00	798.04083
06-Jun-04 13:00:00	791.01404
06-Jun-04 14:00:00	783.73102
06-Jun-04 15:00:00	776.474
06-Jun-04 16:00:00	769.37567
06-Jun-04 17:00:00	762:40607
06-Jun-04 18:00:00	755.55286
06-Jun-04 19:00:00	748.86731
06-Jun-04 20:00:00	742.25079
06-Jun-04 21:00:00	736.00195
06-Jun-04 22:00:00	729.37897
06-Jun-04 23:00:00	770.63135

Start Time Stop Time Interval 06/06/2004 0:00 06/06/2004 23:00 1 hr

WARM START-UP

CO, NOx EMISSIONS & GAS TURBINE LOAD (MW)
FIRST STAGE METAL TEMPERATURE

Tampa Electric Company Bayside CT1A Hillsborough County, Florida

Today's Date: 03/18/2004 Time: 13:07:45 Reporting Period Day: 02/28/2004

Time	CO2 %	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	1.3	17.3	0.165	44.9	186.7	484.1	11.9	344.6
0800	4.0	18.9	0.059	15.9	66.6	56.1	125.8	1434.8
0900	4.1	3.5	0.011	2.9	1.5	1.2	173.3	1806.7
1000	4.1	3.6 3.6 3.5	0.011	3.0	1.5	1.2	166.2	1747.8
.1100	4.1	3.6	0.011	3.0	1.6	1.3	148.6	1603.5
1200	4.1	3.5	0.011	2.9	1.6	1.3	136.8	1513.2
1300	4.1	3.5	0.011	2.9	1.5	1.2	154.3	1652.6
1400	4.1	3.7	0.011	3.0	1.6	1.3	121.3	1395.7
1500	4.1	3.5	0.011	2.9	1.6	1.3	120.6	1389.5
1600	4.1	3.7	0.011	3.0	1.6	1.3	119.6	1383.1
1700	4.0	3.5	0.011	2.9	1.6	1.3	126.8	1436.8
1800	4.0	3.6	0.011	3.0	1.5	1.3	124.1	1415.5
1900	4.0	3.5	0.011	2.9	1.5	1.3	134.4	1495.1
2000	4.0	3.6	0.011	3.0	1.5	1.3	154.7	1654.9
2100	4.1	3.6	0.011	3.0	1.5	1.2	166.2	1752.4
2200	4.1	3.7	0.011	3.0	1.5	1.2	154.6	1656.0
2300	4.0	3.5	0.011	2.9	1.5	1.3	143.3	1566.4
2400	3.1	23.5	0.094	25.6	104.7	113.8	61.9	924.7
AVG	3.9	6.3	0.027	7.3	21.2	37.4	130.2	1454.1

Operating Hours: 18

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Today's Date: 03/18/2004

Time: 13:08:03

Reporting Period Day: 02/29/2004

Time	CO2 %	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
0100	1.9	33.9	0.222	60.1	149.2	264.7	7.8	480.4
0200	1.9	33.9	0.222	60.1	151.3	268.4	7.8	481.1
0.300	2.6	44.0	0.210	57.0	197.7	256.3	30.8	688.7
0400	2.0	36.7	0.228	61.9	140.7	237.1	9.8	498.2
0500	2.4	43.1	0.223	60.5	181.8	255.3	23.3	620.5
0600	4.1	3.2	0.010	2.6	1.6	1.3	138.9	1528.6
0700	4.1	3.7	0.011	3.0	1.6	1.3	128.0	1445.3
0800	4.1	3.8	0.012	3.1	1.6	1.3	132.8	1481.3
0900	4.1	3.6	0.011	3.0	1.6	1.3	151.1	1622.6
1000	4.1	3.7	0.011	3.0	1.6	1.3	135.2	1500.3
.1100	4.1	3.6	0.011	3.0	1.6	1.3	142.0	1553.3
1200	4.0	3.5	0.011	2.9	1.5	1.3	153.0	1644.8
1300	4.0	3.7	0.011	3.1	1.5	1.3	130.0	1459.6
1400	4.0	3.6	0.011	3.0	1.5	1.3	128.8	1451.1
1500	4.0	3.6	0.011	3.0	1.5	1.3	128.3	1447.8
1600	4.0	3.6	0.011	3.0	1.5	1.3	128.9	1451.7
1700	4.0	3.6	0.011	3.0	1.5	1.3	132.1	1476.0
1800	4.0	3.6	0.011	3.0	1.5	1.3	131.6	1472.4
1900	4.0	3.6	0.011	3.0	1.5	1.3	146.0	1586.3
2000	4.1	3.6	0.011	3.0	1.5	1.2	161.2	1713.3
2100	4.0	3.6	0.011	3.0	1.5	1.3	157.7	1681.7
2200	4.0	3.7	0.011	3.1	1.5	1.3	120.1	1386.4
2300	4.0	3.6	0.011	3.0	1.5	1.3	112.0	1327.7
2400	4.0	3.6	0.011	3.0	1.6	1.3	123.5	1412.0
AVG	3.6	10.8	0.055	14.9	35.4	54.4	110.9	1308.8

Operating Hours: 24

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Time Tag	1-TMITI913
28-Feb-04 00:00:00	791.8775
28-Feb-04 01:00:00	795.02765
28-Feb-04 02:00:00	794.75415
28-Feb-04 03:00:00	795.15796
28-Feb-04 04:00:00	794.0993
28-Feb-04 05:00:00	794.36853
28-Feb-04 06:00:00	793.64691
28-Feb-04 07:00:00	780.22211
28-Feb-04 08:00:00	806.17969
28-Feb-04 09:00:00	804.01239
28-Feb-04 10:00:00	805.33435
28-Feb-04 11:00:00	810.84344
28-Feb-04 12:00:00	813.76257
28-Feb-04 13:00:00	809.69586
28-Feb-04 14:00:00	813.76965
28-Feb-04 15:00:00	814.15503
28-Feb-04 16:00:00	812.62823
28-Feb-04 17:00:00	814.63452
28-Feb-04 18:00:00	813.73712
28-Feb-04 19:00:00	812.3371
28-Feb-04 20:00:00	811.37976
28-Feb-04 21:00:00	809.94672
28-Feb-04 22:00:00	813.9801
28-Feb-04 23:00:00	802.80316

Start Time Stop Time Interval 2/28/2004 0:00 2/28/2004 23:00 1 hr

Time Tag	1-TMITI913	Start Time	Stop Time	Interval
29-Feb-04 00:00:00	782.42999	2/29/2004 0:00	2/29/2004 23:00	1 hr
29-Feb-04 01:00:00	769.69055			
29-Feb-04 02:00:00	760.76471			
29-Feb-04 03:00:00	721.21851			
29-Feb-04 04:00:00	717.76624			
29-Feb-04 05:00:00	675.15405			
29-Feb-04 06:00:00	776.1839			
29-Feb-04 07:00:00	802.23352			
29-Feb-04 08:00:00	812.31403			
29-Feb-04 09:00:00	812.06122			
29-Feb-04 10:00:00	814.4942			
29-Feb-04 11:00:00	815.24756			
29-Feb-04 12:00:00	815.2887			
29-Feb-04 13:00:00	815.85291			
29-Feb-04 14:00:00	816.40607			
29-Feb-04 15:00:00	814.75372			
•	816,2951			
29-Feb-04 17:00:00	816.38141			
29-Feb-04 18:00:00	816.20331			
29-Feb-04 19:00:00	816.24512			
29-Feb-04 20:00:00	816.25183			
29-Feb-04 21:00:00	815.08777			
29-Feb-04 22:00:00	816.33356			
29-Feb-04 23:00:00	815.25476			

Reporting Period

Day: 06/06/2004

Today's Date: 06/08/2004

Time: 09:37:06

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	co	CO	Gen	HTIP
	8	ppm	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0000	4.1	3.7	0.011	3.0	1.2	1.0	157.9	1678.5
0100	4.1	3.7	0.011	3.0	1.2	1.0	157.8	1677.0
0200	4.1	3.7	0.011	3.0	1.2	1.0	158.4	1682.0
0300	4.1	3.7	0.011	3.0	1.2	1.0	158.9	1685.4
0400	4.1	3.7	0.011	3.0	1.2	1.0	159.2	1688.4
0500	4.1	3.6	0.011	3.0	1.2	1.0	147.2	1593.1
0600	4.1	3.6	0.011	3.0	1.2	1.0	110.1	1303.2
0700	4.1	3.6	0.011	3.0	1.2	1.0	110.1	1302.2
0800	4.1	3.6	0.011	3.0	1.2	1.0	117.8	1359.1
0900	4.1	3.7	0.011	3.0	1.2	1.0	124.6	1408.9
1000	4.1	3.7	0.011	3.0	1.1	0.9	125.1	1411.9
1100	4.1	3.7	0.011	3.0	1.1	0.9	132.1	1467.9
1200	4.1	3.7	0.011	3.0	1.1	0.9	140.2	1531.0
1300	4.1	3.7	0.011	3.0	1.1	0.9	140.1	1530.8
1400	4.1	3.7	0.011	3.0	1.1	0.9	120.9	1380.1
1500	4.1	3.7	0.011	3.0	1.1	0.9	120.1	1371.9
1600	4.1	3.7	0.011	3.0	1.1	0.9	124.1	1404.0
1700	4.1	3.7	0.011	3.0	1.1	0.9	129.4	1444.2
1800	4.1	3.7	0.011	3.0	1.1	0.9	110.7	1302.9
1900	4.1	3.6	0.011	3.0	1.1	0.9	110.0	1298.8
2000	3.9	11.8	0.038	10.2	118.6	102.5	91.3	1160.1
2100	2.2	17.5	0.099	26.8	995.7	1525.5	15.0	581.2
2200	2.7	39.8	0.183	49.7	456.0	569.3	25.6	652.7
2300	2.8	40.5	0.180	48.8	547.8	659.5	29.0	686.1
AVG	3.9	7.6	0.030	8.1	89.2	119.8	117.3	1358.4

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Tampa Electric Company Bayside CT2C Hillsborough County, Florida

Today's Date: 06/08/2004 Time: 09:31:32

Reporting Period Day: 06/07/2004

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	*	ppm	lb/mmBtu	@15% O2	ppm	@15% 02	MW	lb/mmBtu
	• -							
0000	2.7	44.6	0.205	55.7	260.5	325.2	32.5	699.7
0100	4.1	2.5	0.008	2.1	1.2	1.0	110.0	1303.0
0200	4.1	3.7	0.011	3.0	1.2	1.0	110.1	1302.0
0300	4.1	3.7	0.011	3.0	1.2	1.0	110.0	1302.0
0400	4.1	3.7	0.011	3.0	1.2	1.0	110.1	1302.1
`0500	4.1	3.7	0.011	3.0	1.2	1.0	112.1	1317.5
0600	4.1	3.7	0.011	3.0	1.2	1.0	111.0	1309.5
0700	4.1	3.7	0.011	3.0	1.2	1.0	145.3	1572.5
0800	4.1	3.7	0.011	3.0	1.2	1.0	151.8	1628.8
0900	4.1	3.6	0.011	3.0	1.2	1.0	143.8	1561.1
1000	4.1	3.6	0.011	3.0	1.1	0.9	124.8	1410.6
1100	4.0	3.6	0.011	3.0	1.1	0.9	127.7	1433.3
1200	4.1	3.6	0.011	3.0	1.2	1.0	148.3	1602.3
1300	4.0	3.5	0.011	2.9	1.1	0.9	146.4	1586.6
1400	4.0	3.4	0.011	2.9	1.1	0.9	134.5	1486.2
1500	4.1	3.5	0.011	2.9	1.1	0.9	120.0	1371.4
1600	4.1	3.5	0.011	2.9	1.1	0.9	120.0	1370.7
1700	4.1	3.5	0.011	2.9	1.1	0.9	139.2	1523.6
1800	4.1	3.5	0.011	2.9	1.1	0.9	148.6	1599.8
1900	4.1	3.5	0.011	2.9	1.1	0.9	133.8	1479.5
2000	4.1	3.5	0.011	2.9	1.1	0.9	130.0	1449.8
2100	4.1	3.5	0.011	2.9	1.1	0.9	120.6	1378.5
2200	4.1	3.5	0.011	2.9	1.1	0.9	141.2	1541.1
2300	4.1	3.5	0.011	2.9	1.2	1.0	132.2	1468.5
AVG	4.0	5.2	0.019	5.1	12.0	14.5	125.2	1416.7

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Time Tag	2TMITI914	Start Time	Stop Time	Interv
06-Jun-04 00:00:00	862.100952	06/06/2004 0:00	06/07/2004 23:00	1 hr
06-Jun-04 01:00:00	874.757813			
06-Jun-04 02:00:00	871.649414			
06-Jun-04 03:00:00	865.713379			
06-Jun-04 04:00:00	865.414429			
06-Jun-04 05:00:00	857.114563			
06-Jun-04 06:00:00	837.840454			
06-Jun-04 07:00:00	830.815063			
06-Jun-04 08:00:00	825.048645			
06-Jun-04 09:00:00	818.784973			
06-Jun-04 10:00:00	812.258057			
06-Jun-04 11:00:00	805.324646			
06-Jun-04 12:00:00	798.040833			
06-Jun-04 13:00:00	791.014038			
06-Jun-04 14:00:00	783.731018			
06-Jun-04 15:00:00	776.473999			
06-Jun-04 16:00:00	769.375671			
06-Jun-04 17:00:00	762.406067			
06-Jun-04 18:00:00	755.552856			
06-Jun-04 19:00:00	748.86731			
06-Jun-04 20:00:00	742.250793			
06-Jun-04 21:00:00	736.001953			
06-Jun-04 22:00:00	729.378967			
06-Jun-04 23:00:00	770.631348			
07-Jun-04 00:00:00	837.682922			
07-Jun-04 01:00:00	840.233154			
07-Jun-04 02:00:00	832.462402			
	808.722839			
07-Jun-04 04:00:00	869.075989			
07-Jun-04 05:00:00	827.603088			
07-Jun-04 06:00:00	803.226868			
07-Jun-04 07:00:00	843.834045			
07-Jun-04 08:00:00	857.295349			
07-Jun-04 09:00:00	867.082092			
07-Jun-04 10:00:00	876.431335			
07-Jun-04 11:00:00	881.344666			
	881.383972			
07-Jun-04 13:00:00	881.25647			
07-Jun-04 14:00:00	883.459656			
07-Jun-04 15:00:00	883.042725			
07-Jun-04 16:00:00	883.087646			
07-Jun-04 17:00:00	881.973145			
07-Jun-04 18:00:00	882.008301			
07-Jun-04 19:00:00	882.727478			
07-Jun-04 20:00:00	883.271301	,		
07-Jun-04 21:00:00	882.834534			
	883.142639			
07-Jun-04 23:00:00	881.216675			
37 Gail 04 20.00.00	001.210070			

Interval

TUNING

CO, NOx EMISSIONS & GAS TURBINE LOAD (MW)



Day: 05/11/2003

Tampa Electric Company Bayside CT1B

Hillsborough County, Florida

Today's Date: 05/27/2003 Time: 09:49:57 Reporting Period

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	%	ppm	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	1.6	11.5	0.089	24.2	241.2	508.1	2.8	247.3
0900	3.3	44.9	0.169	45.9	332.1	339.2	34.7	709.2
1000	3.4	48.5	0.177	48.1	297.4	294.8	37.1	722.7
1100	4.3	. 23.5.	0.068	18.4	6.0	4.7	100.2	1208.6
1200	4.3	8.4	0.024	6.6	1.4	1.1	130.7	1431.3
1300	4.4	8.2	0.023	6.3	1.3	1.0	151.7	1599.5
1400	4.4	8.7	0.025	6.7	1.3	1.0	151.5	1596.3
1500	4.4	8.4	0.023	6.4	1.5	1.1	151.8	1598.2
1600	4.4	3.8	0.011	2.9	1.4	1.1	152.0	1596.6
1700	4.4	3.9	0.011	3.0	1.3	1.0	152.5	1600.0
1800	4.4	3.9	0.011	3.0	1.2	0.9	153.7	1607.3
1900	4.2	7.2	0.011	5.8	44.6	35.8	133.7	1432.1
						2479.8	0.0	0.0
2000	0.8	1.1	0.014	3.7	735.7			
2100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
AVG	2.0	7.6	0.028	7.5	69.4	152.9	56.3	639.5

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Today's Date: 03/18/2004

Time: 12:54:42

Reporting Period Day: 10/31/2003

			Daily E	missions	Log			
Time	CO2	NOx	NOx	NOx	CO	CO	Gen	HTIP
	%	ppm	lb/mmBtu	@15% 02	ppm	@15% 02	MW	lb/mmBtu
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	· 0.0I	· 0.01'	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1300	2.5	33.2	0.165	44.8	234.5	316.2	20.4	557.6
1400	4.0	31.2	0.097	26.3	73.2	61.7	80.7	1097.7
1500	4.2	8.9	0.026	7.1	1.3	1.0	111.3	1313.7
1600	4.2	8.7	0.026	7.0	1.3	1.0	143.7	1568.8
1700	4.2	6.5	0.019	5.2	1.3	1.0	113.7	1339.4
1800	4.2	3.6	0.011	2.9	1.3	1.0	95.3	1204.9
1900	4.2	3.6	0.011	2.9	1.3	1.0	100.3	1239.3
2000	3.1	6.4	0.026	7.0	247.7	269.3	59.5	796.0
2100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
AVG	3.8	12.8	0.048	12.9	70.2	81.5	90.6	1139.7

Operating Hours: 8

Legend

C - Out of Control

D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Today's Date: 03/18/2004

Time: 12:54:58

Reporting Period Day: 11/05/2003

Time	CO2	NOx ppm	Daily E NOx lb/mmBtu	missions NOx @15% O2	Log CO ppm	CO @15% O2	Gen MW	HTIP lb/mmBtu
	6	pp	1D/ MINDEA	@150 OZ	ppiii	G130 02	1-111	1D/ mmbca
0100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0500	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0600	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0700	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	o.òı	0.000	0.0	0.0	0.0	0.0	0.0
1300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1500	2.0	24.7	0.153	41.6	154.5	260.4	7.4	424.4
1600	2.3	33.4	0.180	48.9	129.0	189.1	10.7	499.7
1700	2.3	34.3	0.185	50.3	126.4	185.2	11.1	502.2
1800	2.2	32.7	0.185	50.1	139.5	213.7	10.4	497.2
1900	2.2	32.6	0.184	49.9	140.7	215.6	10.3	495.5
2000	2.2	32.5	0.183	49.8	142.8	218.8	10.3	497.1
2100	2.2	32.2	0.182	49.3	143.2	219.4	9.9	492.5
2200	2.2	32.0	0.181	49.0	143.8	220.3	9.6	491.0
2300	2.2	32.4	0.183	49.6	142.4	218.2	9.7	493.2
2400	2.2	32.8	0.185	50.3	140.8	215.7	10.2	498.4
AVG	2.2	32.0	0.180	48.9	140.3	215.6	10.0	489.1

Operating Hours: 10

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

Today's Date: 03/18/2004

Reporting Period Day: 11/06/2003 Time: 12:55:20

Time	CO2	NOx	Daily E NOx	missions NOx	Log CO	CO	Gen	HTIP
TIME	%		lb/mmBtu	@15% O2		@15% O2	MW	lb/mmBtu
	6	ppm	בט/ ווווושנע	@15% O2	ppm	@15% 02	IAIAA	בט/ ווווושנע
0100	2.2	32.6	0.184	49.9	142.9	218.9	10.0	498.0
0200	2.2	33.6	0.190	51.5	138.8	212.7	10.8	504.9
0300	2.2	33.4	0.189	51.2	142.0	217.6	16.4	559.4
0400	2.3	32.9	0.178	48.2	191.3	280.4	12.0	519.0
0500	3.8	30.3	0.099	26.9	112.9	100.1	81.1	1080.6
0600	4.2	3.5	0.010	2.8	1.0	0.8	100.0	1219.5
0700	3.1	20.6	0.083	22.4	272.8	296.6	43.6	679.0
0800	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
0900	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1000	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1100	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
1200	0.01	O.ÒI	0.000	0.0	0.0	0.0	0.0	0.0
1300	0.0	0.0	0.000	0.0	0.8	2.7	0.0	46.2
1400	3.6	23.9	0.082	22.4	145.4	136.1	74.7	1008.7
1500	4.2	3.6	0.011	2.9	1.0	0.8	113.0	1309.9
1600	4.1	3.5	0.011	2.9	1.0	0.8	110.6	1292.7
1700	4.1	3.6	0.011	3.0	1.0	0.8	101.2	1227.7
1800	4.1	3.6	0.011	3.0	1.0	0.8	108.8	1281.7
1900	4.2	3.5	0.010	2.8	1.0	0.8	144.7	1550.4
2000	4.2	3.7	0.011	3.0	1.1	0.9	113.6	1311.6
2100	3.4	13.3	0.049	13.2	198.6	196.9	66.0	875.0
2200	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2300	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
2400	0.01	0.01	0.000	0.0	0.0	0.0	0.0	0.0
			0 0-1	,	0.4.5	104.0	60.0	025.2
AVG	3.2	15.4	0.071	19.1	84.5	104.2	69.2	935.3

Operating Hours: 16

Legend

C - Out of Control D - Out of Service

I - Insufficient Data

M - Maintenance Fault

A - Calibration Error

ATTACHMENT J

OVERSPEED TRIP TEST GE TECHNICAL INFORMATION LETTER



TIL 1345-2
GE ENERGY SERVICES
PRODUCT SERVICE
14 JUNE 2002

TECHNICAL INFORMATION LETTER

7FA+E ROTOR STARTUP/OVERSPEED REVISION

APPLICABLE TO

All 7241 and 7FB Gas Turbines not yet commissioned, and units that experience an overspeed test event annually.

PURPOSE

To inform users of the new Rotor Startup Procedure, Document 362A2445 Rev. B, "Rotor Start Up Procedures for 7FA+e and 7FB Designs".

BACKGROUND DISCUSSION

Some units in the field have experienced R1/R0 tip distress. The distress is largely due to degraded fatigue properties of the material at the tip of the blade due to tip rubs. Such distress may lead to tip loss. Research has identified the major operational characteristics that affect clearance at the front end of the compressor. As a result of this analysis, it was found that the 110% trip test had the largest clearance debit when compared to all of the other factors involved in front end clearance closure. The current procedure is as follows:

- The rotor stabilizes mechanically and thermally at 43.5 deg IGV setting for -4 hours.
- After rotor stability, the unit is accelerated to 110% speed, and a trip is initiated.
- The unit then coasts down normally.

Currently all 7241 units run an overspeed test as part of the regular commissioning procedure. The rotor is run to 110%, thus initiating a turbine trip. Before overspeed, the rotor undergoes thermal and mechanical stabilization at FSNL for approximately 4 hours at a closed IGV setting (43.5 deg). It was demonstrated in recent testing that this condition can initiate rubs on the first two compressor stages, as a result of the casing cooling down and tightening the available clearance.

In order to avoid clearance closure leading to rubs this overspeed procedure has been revised. After the 4 hour run, IGVs are manually positioned to 88 degrees and the unit is run for 45 mcre minutes; the overspeed sequence can then be completed; the IGVs should resume normal schedule following trip (with IGV modulation tracking with speed during coast down).

This procedure would warm up the front end of the compressor before an overspeed/trip test. By warming up the front end, the casings will open enough to allow adequate blade clearance to avoid rubs.

RECOMMENDATIONS

GE recommends implementing the new Rotor Startup Procedure every time an overspeed test is required. This procedure has been revised to include the improved overspeed instruction. GE recommends that all units undergoing an overspeed test should follow this procedure to reduce potential rubs on the R0 and R1 blades. A qualified GE Controls TA can perform this test.

Contact your local GE Energy Services representative for assistance or for additional information.

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HERT 227284 12.36 12.06 P.03/03



TAMPA ELECTRIC

October 14, 2004

REC

OCT 15 2004

BUREAU OF AIR REGULATION

Via FedEx Airbill No. 7921 1316 4360

Mr. Jeffery F. Koerner, P.E. New Source Review Section Florida Department of Environmental Protection 111 South Magnolia Drive, Suite 4 Tallahassee, Florida 32301

Re: Tampa Electric Company (TEC)

> H.L. Culbreath Bayside Power Station (Formerly the F. J. Gannon Station) Revision of Permit No. PSD-FL-301A Renewal of Title V Air Operation Permit (Dual) Public Notice of Intent

DEP File Nos. 0570040-021-AC and 0570040-023-AV

Dear Mr. Koerner:

Please find enclosed the original Affidavit of Publication from the Tampa Tribune, as required by 62-110.106(5), F.A.C. This public notice was published in the legal section of the Tampa Tribune on Saturday October 9, 2004. If you have any questions, please feel free to telephone Ms. Greer Briggs or me at (813) 228-4302.

Sincerely,

Laura R. Crouch

Manager-Air Programs

Environmental, Health & Safety

EHS\bmr\GMB206

Enclosure

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Mr. Al Linero - FDEP c:

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

Type of Identification Produced_

State of Florida County of Hillsborough \} ss. Before the undersigned authority personally appeared C. Offner, who on oath says that she is the Advertising Billing Supervisor of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a LEGAL NOTICE PUBLIC NOTICE OF INTENT in the matter of was published in said newspaper in the issues of OCTOBER 9, 2004 Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, this advertisement for publication in the said newspaper. Sworn to and subscribed by me, this OCTOBER of Personally Known Vor Produced Identification_

Amie Lee Alata

OFFICIAL NOTARY SEAL
SUSIE LEE SLATON
COMMISSION NUMBER
DD000060
AY COMMISSION EXP.
APRIL 16, 2005

startup, sniktown, and maifunction for days with a startup following an unplanned forced outage; and allow the exclusion of all data collected during maintenance periods to tune the dry low-NOx combustion system, dry the compressor blades following a water wash, and conduct over speed trip tests. These scenarios identify specific periods during which the gas turbines are not yet able to operate in full dry low-NOx combustion mode with the resulting low emission levels. As conditioned and restricted by the draft permit, these cases are imited in scope and impact.

Title V Air Operation Permit Project: The Tampa Electric Company operates the H. L. Culbreath Bayside Power Station, which is the re-powered F. J. Gannon Station. The coal-fired boilers have been permanently shut down. The new Bayside Station consists primarily of two "units": Bayside Unit 1 is comprised of three 169 MW gas turbines and three heat recovery steam generators that re-power a 239 MW existing steam turbine electrical generator; and Bayside Unit 2 is comprised of four 169 MW gas turbines and four heat recovery steam generators that re-power a 424 MW existing steam turbine electrical generator. The gas turbines fire natural gas as the exclusive fuel Emissions of nitrogen oxides are reduced with dry low-NOx combustion and selective catalytic reduction. Emissions of nitrogen oxides are

continuously monitored. Each gas turbine is subject to the New Source Performance Standards for stationary gas turbines, the Department's Best Available Control Technology determination (for emissions of carbon monoxide, particulate matter, and volatile organic compounds), and the Phase II acid rain program. The DRAFT Title V Air Operation Permit incorporates new Bayside Units I and 2 and is a renewal of the initial Title V Air Operation Permit for this facility.

Air Operation Permit for this facility.

Permitting Authority:
Applications for these permitting actions are subject to review in accordance with the provisions of Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed projects are not exempt from air permitting requirements and air permits are required for the revised air construction permit and to operate the facility. The Florida Department of E n v ir o n m e n t a l Protection's Bureau of Air Regulation is the Permitting Authority responsible for making permit determinations regarding these projects. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, in Tallahassee, Florida The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Fallahassee, Florida 12399-2400. The Permitting Authority's telephone lumber is 850/488-0114.

Project Files: Complete project files are available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Revised Air Construction Permit Project, the complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the applicant, exclusive of confidential records under Section 403.111, F.S. For the Title V Air Operation Permit Project, the complete project file includes the DRAFT Permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. For the Title V Air Operation Permit Project, the complete project file includes the DRAFT Permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the Draft Permit documents and file electronic comments by visiting the following we by the exploitant of the Files are also available at the Air Resources Section of the Department's Southwest District Office at 3804 Coconut Palm Drive, Tampa, Florida 33619-8218 (Telephone: 813/744-6100). In addition, copies of the project files are available from the Air Management Division of the Hillsborough County Environmental Protection Commission at 1900 9th Avenue, Tampa, FL 33605 (Phone: 813/272-5530.)

Notice of Intent to Issue Air Permits: The Permitting Authority gives notice of its intent to issue the Revised Draft Air Construction Permit and the DRAFT Title V Air Operation Permit to the applicant for the projects described above. The applicant has provided reasonable assurance that operation of the facility will not adversely impact air quality and that the projects will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-214, 62-215, 62-213, 62-214, 62-256, 62-257, 62-281, 62-296, and 62-297, F.A.C. For the Draft Air Construction Permit, the Permitting Authority will issue a Final Permit in accordance with the conditions of the Draft Permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions. For the DRAFT Title V Air Operation Permit, the Permitting Authority will issue a PROPOSED Permit and subsequent FINAL Permit in accordance with the following procedures results in a different decision or a significant change of terms or conditions of the DRAFT Permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

or conditions.

Comments on the Revised Air Construction Permit Project: The Permitting Authority will accept written comments concerning the Revised Draft Air Construction Permit for a period of fourteen (14) days from the date of publication of the Public Notice. Written comments must be post-marked, and alle-mail or facsimile comments must be received by the close of business (5:00 p.m.), on or before the end of this 14-day period by the Permitting Authority at the above address, email or

facsimile. If written comments result in a significant change to the Draft Permit, the Permitting Authority will issue a revised Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Comments on the DRAFT
Title V Air Operation Permit
Project: The Permitting
Authority will accept
written comments concerning the DRAFT
Permit for a period of thirty
(30) days from the date of
publication of the Public
Notice. Written comments
must be post-marked, and
all e-mail or facsimile
comments must be
received by the close of
business (5:00 p.m.), on or
before the end of this
30-day period by the
Permitting Authority at the
above address, email or
facsimile. As part of his or
her comments, any person
may also request that the
Permitting Authority hold a
public meeting on this
permitting Authority
determines there is
sufficient interest for
a public meeting, it will
publish notice of the time,
date, and location on the
Department's official web
site for notices at
http://thora6.dep.
state.flus/onw
and in a newspaper of
general circulation in the
area affected by the
permitting action. For
additional information,
contact the Permitting
Authority at the above
address or phone number.
If written comments or
comments received at a
public meeting result in a
significant change to the
DRAFT Permit, the
Permitting Authority will
issue a Revised DRAFT
Permit and require,
if applicable, another Public
Notice. All comments filed
will be made available for
public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decisions may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within fourteen (14) days of receipt of this "Written Notice of Intent". Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) days of receipt of this "Written Notice", whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) days of receipt of that notice regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative

determination (nearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner of the agency action or proposed action; (d) A statement of how and when each petitioner of material fact, if there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and, (g) A statement of the relief sought by the

petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

28-106.301, F.A.C.

Be cause the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this "Written Notice". Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on these applications have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Objections to the DRAFT
Title V Permit: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within sixty (60) days of the expiration of the EPA within sixty (60) days of the expiration of the Administrator's 45 (forty-five) day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any little V air operation permit. Any petition shall be based only on objections to the Permit that were raised with reasonable specificity during the thirty (30) day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objection arose after the comment period riling of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with Administrator of the EPA att. S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA att. U.S. C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA att. U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at http://www.epa.gov/region4/air/permits/Florida.htm.

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