Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

PROPOSED Permit Electronic Posting Courtesy Notification

Polk Power Partners, L.P., Inc.
Mulberry Cogeneration Facility
Facility ID No.: 1050217
Polk County

Title V Air Operation Permit Renewal
PROPOSED Permit Renewal No.: 1050217-002-AV

The electronic version of the PROPOSED permit was posted on the Division of Air Resources Management's world wide web site for the United States Environmental Protection Agency (USEPA) Region 4 office's review on October 28, 2002.

USEPA's review period ends on the 45th day after the permit posting date. Day 45 is December 11, 2002. If an objection (veto) is received from USEPA, the permitting authority will provide a copy of the objection to the applicant.

Provided an objection is not received from USEPA, the PROPOSED permit will become a FINAL permit by operation of law on the 55th day after the permit posting date. Day 55 is December 21, 2002.

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

David B. Struhs
Secretary

October 28, 2002

Mr. Allan Wade Smith
General Manager
Polk Power Partners, L.P., Inc.
1125 US 98, South, Suite 100
Lakeland, Florida 33801

Re: PROPOSED Title V Operation Permit Renewal No.: 1050217-002-AV
Mulberry Cogeneration Facility

Dear Mr. Smith:

One copy of the "PROPOSED Determination" for the renewal of a Title V Air Operation Permit for the Mulberry Cogeneration Facility located at 3600 County Road 555, Bartow, Polk County, is enclosed. This letter is only a courtesy to inform you that the DRAFT Permit has become a PROPOSED Permit.

Pursuant to Section 403.0872(6), Florida Statutes, if no objection to the PROPOSED Permit is made by the USEPA within 45 days, the PROPOSED Permit will become a FINAL Permit no later than 55 days after the date on which the PROPOSED Permit was mailed (posted) to USEPA. If USEPA has an objection to the PROPOSED Permit, the FINAL Permit will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn.

If you should have any questions, please contact Edward J. Svec at 850/921-8985.

Sincerely,

A. A. Linero, P.E.
Bureau of Air Regulation

AAL/es

Enclosures

copy furnished to:
Darrel Graziani, PE, Foster Wheeler Environmental Corporation
Gerald Kissel, P.E., SWD
USEPA, Region 4 (INTERNET E-mail Memorandum)

Posted on 10/28/02
Mailed on 10/30/02

PROPOSED Determination

Title V Air Operation Permit Renewal
PROPOSED Permit Project No.: 1050217-002-AV

I. Public Notice.

An "INTENT TO ISSUE A COMBINED AIR CONSTRUCTION PERMIT/TITLE V OPERATION PERMIT RENEWAL" to Polk Power Partners, L.P., Inc. for the Mulberry Cogeneration Facility located at 3600 County Road 555, Bartow, Polk County was clerked on September 20, 2002. The "PUBLIC NOTICE OF INTENT TO ISSUE A COMBINED AIR CONSTRUCTION PERMIT/TITLE V OPERATION PERMIT RENEWAL" was published in The Polk County Democrat on September 26, 2002. The DRAFT Permit was available for public inspection at the Southwest District office in Tampa and the permitting authority's office in Tallahassee. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE A COMBINED AIR CONSTRUCTION PERMIT/TITLE V OPERATION PERMIT RENEWAL" was received on October 21, 2002.

II. Public Comment(s).

No comments were received during the 30 (thirty) day public comment period. Since no comments were received, the DRAFT Permit becomes the PROPOSED Permit.

III. Format Corrections.

After this permit was drafted, there were two format changes which affect this permit. As a result, the following changes are made to the permit:

Delete: Section I. Facility Information.
Subsection D. Miscellaneous.

The use of 'Permitting Notes' throughout this permit are for informational purposes only and are not permit conditions.

A permitting note following the **Emission Limitations and Standards** subsections of **Section III. Emissions Unit(s) and Conditions** is added, as follows:

Add: {Permitting note: Unless otherwise specified, the averaging time for condition(s) [A].[#]. – [A].[#]. are based on the specified averaging time of the applicable test method.}

IV. Conclusion.

Since there were no comments received during the Public Notice period, no changes were made to the DRAFT Permit and the permitting authority hereby issues the PROPOSED Permit.

STATEMENT OF BASIS

Polk Power Partners, L.P., Inc.
Mulberry Cogeneration Facility
Facility ID No.: 1050217
Polk County

Title V Air Operation Permit Renewal
PROPOSED Permit Project No.: 1050217-002-AV
Renewal of Title V Air Operation Permit No.: 1050217-001-AV

The initial Title V Air Operation Permit, No. 1050217-001-AV, was effective on January 1, 1998. This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

The subject of this permit is for the renewal of Title V Air Operation Permit, No. 1050217-001-AV, and the incorporation a construction permit (letter modification), No. 1050217-003-AC, issued on October 28, 2002.

The construction permit (letter modification) removes some confusion over an obsolete VOC emissions limit/testing requirement and allows the turbine to utilize the NO_X CEMS for compliance testing. No emissions limits were affected as a result of this construction permit. CAM does not apply.

This facility consists of a 126 MW combined cycle cogeneration unit which consists of 1 combustion turbine (CT), 1 Heat Recovery Steam Generator (HRSG) and 1 Secondary Boiler. The facility is fired with natural gas and new No. 2 fuel oil, with natural gas being the primary fuel and new No. 2 fuel oil as backup fuel.

The combustion turbine (CT) is a GE PG7111EA model with a nameplate rating of 82 MW at ISO. The CT is allowed to burn natural gas or new No. 2 fuel oil. Natural gas is the primary fuel and new No. 2 fuel oil can be used permanently as back-up fuel. NOx emissions are controlled by dry low-NOx combustors and water-injection. The HRSG services a 44 MW steam generator and furnishes steam to other facilities. The CT and HRSG began commercial operation on August 10, 1994. The secondary boiler is for auxiliary steam. It is fired by natural gas. A portion of the exhaust gas from the combustion turbine is vented through the secondary boiler. NOx emissions are controlled with low-dry-NOx combustion technology. This emissions unit began commercial operation on August 10, 1994. CAM does not apply.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received July 5, 2002, this facility is not a major source of hazardous air pollutants (HAPs).

Polk Power Partners, L.P., Inc.
Mulberry Cogeneration Facility
Facility ID No.: 1050217
Polk County

Title V Air Operation Permit Renewal

PROPOSED Permit Project No.: 1050217-002-AV
Renewal of Title V Air Operation Permit No.: 1050217-001-AV

Permitting Authority:
State of Florida
Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
Title V Section
Telephone: 850/488-0114
Fax: 850/922-6979

Compliance Authority:
Southwest District Office
3804 Coconut Palm Drive
Tampa, FL 33619-8218
Telephone: 813/744-6100
Fax: 813/744-6084

Title V Air Operation Permit Renewal

PROPOSED Permit No.: 1050217-002-AV
Renewal of Title V Air Operation Permit No.: 1050217-001-AV

Table of Contents

Department of Environmental Protection

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

Jeb Bush
Governor

David B. Struhs
Secretary

Permittee:
Polk Power Partners, L.P.
3600 County Road 555
Bartow, Florida 33831-0824

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217
SIC No(s).: 49, 4911
Project: Title V Air Operation Permit Renewal

The purpose of this permit is to renew Title V Air Operation Permit, No. 1050217-001-AV, and incorporate a construction permit (letter modification), No. 1050217-003-AC, issued on October 28, 2002. This existing facility is located at 3600 County Road 555, Bartow, Polk County; UTM Coordinates: Zone 17, 413.6 km East and 3080.6 km North; Latitude: 27° 50' 56" North and Longitude: 81° 52' 39" West.

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
APPENDIX TV-4, TITLE V CONDITIONS version dated 02/12/02
APPENDIX SS-1, STACK SAMPLING FACILITIES version dated 10/07/96
TABLE 297.310-1, CALIBRATION SCHEDULE version dated 10/07/96
FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS

Effective Date: January 1, 2003
Renewal Application Due Date: July 5, 2007
Expiration Date: December 31, 2007

Howard L. Rhodes, Director
Division of Air Resource Management

HLR/sms/es

Section I. Facility Information.

Subsection A. Facility Description.

This facility has a 126 MW combined cycle cogeneration unit which consists of 1 combustion turbine (CT), 1 Heat Recovery Steam Generator (HRSG) and 1 Secondary Boiler. The facility is fired with natural gas and new No. 2 fuel oil, with natural gas being the primary fuel and new No. 2 fuel oil as backup fuel.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received July 5, 2002, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No.	Brief Description
-001	Combustion Turbine (CT) with HRSG
-002	Secondary Boiler

Unregulated Emissions Units and/or Activities

-003	No. 2 Fuel Oil Tank (720,000 gal)

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:
Table 1-1: Summary of Air Pollutant Standards and Terms
Table 2-1: Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Statement of Basis

These documents are on file with the permitting authority:
Initial Title V Air Operation Permit effective January 1, 1998
Application for a Title V Air Operation Permit Renewal received July 5, 2002
The Responsible Official has certified that the Risk Management Plan was submitted to the RMP Reporting Center.

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-4, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-4, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

2. Not federally enforceable. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard.
Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

4. Prevention of Accidental Releases (Section 112(r) of CAA).
a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center.
b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Department of Community Affairs (DCA), as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.
c. The owner or operator shall submit the required annual registration fee to the DCA on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.

Any required written reports, notifications, certifications, and data required to be sent to the DCA, should be sent to:

Department of Community Affairs
Division of Emergency Management
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100
Telephone: 850/413-9921, Fax: 850/488-1739

Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 3346
Merrifield, VA 22116-3346
Telephone: 703/816-4434

Any required reports to be sent to the National Response Center, should be sent to:

National Response Center
EPA Office of Solid Waste and Emergency Response
USEPA (5305 W)
401 M Street, SW
Washington, D.C. 20460
Telephone: 1/800/424-8802

Send the required annual registration fee using approved forms made payable to:

Cashier
Department of Community Affairs
State Emergency Response Commission
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2149

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

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]

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

9. Not federally enforceable. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include: Cooling Tower Drift Losses – Maintain proper water chemistry (pH & TDS) and equipment in accordance with the manufacturer's specifications; Abrasive Blast Activities – When practical, use of partial or total enclosures and use of grit materials verses sand. Limit annual activities; Surface Coating Activities - When practical, use of partial or total enclosures and limiting outdoor activities to times of favorable weather conditions to avoid off-site impacts; Dry Chemical Handling and Storage – Clean-up spills immediately, good housekeeping practices; Lawn & Ground Maintenance – Application of water to non-vegetative areas, as needed, landscaping and grass in other areas as necessary; Parking Areas – Application of water as necessary; and, Paved and Unpaved Roads – As needed, application of water, the removal of particulate matter from paved roads, limited site access to vehicles and vehicle speed limitations.
[Rule 62-296.320(4)(c)2., F.A.C. and, proposed by applicant in the Title V Air Operation Permit Renewal application received July 5, 2002]

{Permitting note: This condition implements the requirements of Rules 62-296.320(4)(c)1., 3., & 4., F.A.C. (see Condition No. 57. of APPENDIX TV-4, TITLE V CONDITIONS)}

10. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

11. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.
[Rules 62-213.440(3) and 62-213.900, F.A.C.]

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-4, TITLE V CONDITIONS.}"

12. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Southwest District office.

Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Telephone: 813/744-6100; Fax: 813/744-6084

13. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155; Fax: 404/562-9163

14. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), F.A.C.]

Section III. Emissions Unit and Conditions.

Subsection A. This section addresses the following emissions units.

E.U. ID No.	Brief Description
-001	Combustion Turbine (CT) with HRSG

The combustion turbine (CT) is a GE PG7111EA model with a nameplate rating of 82 MW at ISO. The CT is allowed to burn natural gas or new No. 2 fuel oil. Natural gas is the primary fuel and new No. 2 fuel oil can be used permanently as back-up fuel. NOx emissions are controlled by dry low-NOx combustors and water-injection. The HRSG services a 44 MW steam generator and furnishes steam to other facilities. The CT and HRSG began commercial operation on August 10, 1994.

{Permitting notes: This emissions unit is regulated under Acid Rain, Phase II; NSPS - 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, adopted and incorporated by reference in Rule 62-204.800(7), F.A.C.; NSPS 40 CFR 60 Subpart A; Rule 212.400(5), F.A.C., Prevention of Significant Deterioration (PSD); Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination, dated February 21, 1994.}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The operation rate shall not exceed 869 MMBtu/hr (LHV) at ISO conditions. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.2. Methods of Operation - Fuels.
The permittee shall fire natural gas or new No. 2 fuel oil. The primary fuel shall be natural gas with new No. 2 fuel oil as backup fuel. The fuel consumption rates (based on operation at 20° F) for the turbine shall not exceed those listed below:

Natural Gas		New No. 2 Fuel Oil	
M ft3/hr	MM ft3/yr	M lb/hr	MM lb/yr
1013.4	8877.4	55.6	40.0

New No. 2 fuel oil can be used permanently as backup fuel for no more than 720 hours per year. [Rule 62-213.410, F.A.C. and AC53-211670]

A.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8760 hours/year. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

{Permitting note: Unless otherwise specified, the averaging time for conditions A.5. – A..10. are based on the specified averaging time of the applicable test method.}

A.4. All emission limits in **Specific Conditions A.5.** through **A.10.** are based on operation at 59°F and 60 % relative humidity (ISO conditions).
[AC53-211670]

A.5. Nitrogen Oxides. NOx emissions shall not exceed 15 ppmvd @ 15% O_2 (52.7 lbs/hr and 230.7 TPY) when firing natural gas.
[AC53-211670 and BACT Determination dated February 21, 1994]

A.6. Nitrogen Oxides. NOx emissions shall not exceed 42 ppmvd @ 15% O_2 (164.0 lbs/hr and 59.0 TPY) when firing new No. 2 fuel oil.
[AC53-211670 and BACT Determination dated February 21, 1994]

A.7. Sulfur Dioxide. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.10 percent by weight.
[AC53-211670 and BACT Determination dated February 21, 1994]

A.8. Reserved

A.9. Carbon Monoxide. CO emissions shall not exceed 25 ppmvd @ 15% O_2 (53.0 lbs/hr and 232.0 TPY) when firing natural gas.
[AC53-211670 and BACT Determination dated February 21, 1994]

A.10. Carbon Monoxide. CO emissions shall not exceed 75.3 lbs/hr and 27.1 TPY when firing new No. 2 fuel oil.
[AC53-211670 and BACT Determination dated February 21, 1994]

Test Methods and Procedures

A.11. Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.
[40 CFR 60.8(c)]

A.12. Compliance with standards in 40 CFR 60, other than opacity, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.
[40 CFR 60.11(a)]

A.13. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source.
[40 CFR 60.11(d)]

A.14. Circumvention. No owner or operator subject to the provisions of 40 CFR 60 shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.
[40 CFR 60.12]

A.15. To compute the nitrogen oxides emissions, the owner or operator shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Administrator to determine the nitrogen content of the fuel being fired.
[40 CFR 60.335(a)]

A.16. In conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR 60 or other methods and procedures as specified in this permit, except as provided for in 40 CFR 60.8(b). Acceptable alternative methods and procedures are given in paragraph 40 CFR 60.335(f).
[40 CFR 60.335(b)]

A.17. The owner or operator shall determine compliance with the sulfur content standard in 40 CFR 60.333(b) as follows: ASTM D 1072-96, D 3031-81(86), D 4084-94, D 3246-92, or the latest edition of the above ASTM methods shall be used for the sulfur content of gaseous fuels (incorporated by reference-see 40 CFR 60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator.
[40 CFR 60.335(d)]

A.18. The owner or operator shall determine compliance with the sulfur content standard in **Specific Condition A.7.** by using ASTM D 2880-96, or the latest edition.
[40 CFR 60.335(d)]

A.19. To meet the requirements of 40 CFR 60.334(b), the owner or operator shall use the methods specified in 40 CFR 60.335 (a) and 40 CFR 60.335(d) of 40 CFR 60.335 to determine the nitrogen and sulfur contents of the fuel being burned. The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.
[40 CFR 60.335(e)]

A.20. Reserved

Monitoring of Operations

A.21. The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows:
(1) If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source.
(2) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with 40 CFR 60.334(b).
[40 CFR 60.334(b)(1) and (2)]

A.22. The permittee shall monitor sulfur content and nitrogen content of natural gas fired in the turbine as follows:

Custom Fuel Monitoring Schedule for Natural Gas

1. Monitoring of fuel nitrogen content shall not be required when firing natural gas.

2. Sulfur Monitoring:

    a. Analysis for fuel sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are ASTM D1072-90(94)E-1, ASTM D3031-81(86), ASTM D 3246-92, and ASTM D4084-94, or the latest edition of the above ASTM methods as referenced in 40 CFR 60.335(d).

    b. This custom fuel monitoring schedule became effective on August 8, 1994. Sulfur monitoring shall be conducted twice monthly for six months. If this monitoring shows little variability in the fuel sulfur content, and indicates consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once per quarter for six quarters. If monitoring data is provided by the applicant which demonstrates consistent compliance with the requirements herein, the applicant may begin monitoring as per the requirements of 2(c).

    c. If after the monitoring required in item 2(b) above, or herein, the sulfur content of the fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333, sample analysis shall be conducted twice per year. This monitoring shall be conducted during the first and third quarters of each calendar year.

    d. Should any sulfur analysis as required in items 2(b) or 2(c) above indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be reexamined. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.

3. If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change for reexamination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being reexamined.

[40 CFR 60.334(b)(2) and AC 53-211670]

Continuous Monitoring Requirements

A.23. The owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form [see 40 CFR 60.7(d)] to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or, the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or, the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

[40 CFR 60.7(c)(1), (2), (3), and (4)]

A.24. The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG and using water injection to control NO_X emissions shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within ± 5.0 percent and shall be approved by the Administrator.

[40 CFR 60.334(a)]

Recordkeeping and Reporting Requirements

A.25. The turbine manufacturer's capacity vs. temperature (ambient) curve shall be included with the compliance test results.

[AC 53-211670]

A.26. Records of sample analysis and fuel supply pertinent to the "Custom Fuel Monitoring Schedule for Natural Gas" in **Specific Condition A.22.** shall be retained for a period of five years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

[AC 53-211670]

A.27. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:

a. *Nitrogen oxides.* Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the permitted nitrogen oxide standard by the initial performance test required in 40 CFR 60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the initial performance test. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under 40 CFR 60.335(a).

[Rule 62-296.800, F.A.C.; 40 CFR 60.334(c)(1)]

A.28. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

[40 CFR 60.7(b)]

A.29. The summary report form shall contain the information and be in the format shown in Figure 1 (attached) unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

[40 CFR 60.7(d)(1) and (2)]

A.30. (1) Notwithstanding the frequency of reporting requirements specified in 40 CFR 60.7(c), an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(i) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;

(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in 40 CFR 60, Subpart A, and the applicable standard; and

(iii) The Administrator does not object to a reduced frequency of reporting for the affected facility, as provided in 40 CFR 60.7(e)(2).

(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data,

and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in 40 CFR 60.7(e)(1) and (e)(2).
[40 CFR 60.7(e)]

A.31. The permittee shall maintain a file of all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records.
[40 CFR 60.7(f) and Rule 62-213.440(1)(b)2.b., F.A.C.]

A.32. This emissions unit is also subject to the conditions contained in **Subsection C. Common Conditions**.

Subsection B. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
-002	Secondary Boiler

The secondary boiler is for auxiliary steam. It is fired by natural gas. A portion of the exhaust gas from the combustion turbine is vented through the secondary boiler. NOx emissions are controlled with low-dry-NOx combustion technology. This emissions unit began commercial operation on August 10, 1994.

{Permitting notes: The emissions unit is regulated under Acid Rain, Phase II; Rule 212.400(5), F.A.C., Prevention of Significant Deterioration (PSD); Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination, dated February 21, 1994}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity. The operation rate shall not exceed 99 MMBtu/hr (LHV) at ISO conditions. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

B.2. Methods of Operation - Fuels.
The only fuel allowed to be burned is natural gas. The fuel consumption rates (based on operation at 20° F) for the secondary boiler shall not exceed those listed below:

Natural Gas	
M ft3/hr	MM ft3/yr
104.2	450.2*

*Based on maximum firing rate for 4,320 hours per year.
[Rule 62-213.410, F.A.C. and AC 53-211670]

B.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

{Permitting note: Unless otherwise specified, the averaging time for conditions B.4. – B.8. are based on the specified averaging time of the applicable test method.}

B.4. Nitrogen Oxides. NOx emissions shall not exceed 18.3 lbs/hr and 80.0 TPY when firing natural gas.
[AC53-211670 and BACT Determination dated February 21, 1994]

B.5. Nitrogen Oxides. NOx emissions shall not exceed 23.4 lbs/hr and 8.4 TPY when firing new No. 2 fuel oil in the combustion turbine.
[AC53-211670 and BACT Determination dated February 21, 1994]

B.6. Sulfur Dioxide. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.10 percent, by weight, when fired in the combustion turbine.
[AC53-211670 and BACT Determination dated February 21, 1994]

B.7. Carbon Monoxide. CO emissions shall not exceed 12.6 lbs/hr and 55.2 TPY when firing natural gas.
[AC53-211670 and BACT Determination dated February 21, 1994]

B.8. Carbon Monoxide. CO emissions shall not exceed 13.4 lbs/hr and 4.8 TPY when firing new No. 2 fuel oil in the combustion turbine.
[AC53-211670 and BACT Determination dated February 21, 1994]

B.9. This emissions unit is also subject to the conditions contained in **Subsection C. Common Conditions**.

Subsection C. Common Conditions.

E.U. ID No.	Brief Description
-001	Combustion Turbine with HRSG
-002	Secondary Boiler

The following specific conditions apply to the emissions units listed above:

Emission Limitations and Standards

{Permitting note: Unless otherwise specified, the averaging time for conditions C.1. – C.2. are based on the specified averaging time of the applicable test method.}

C.1. Visible Emissions. Visible emissions shall not exceed 10 percent opacity when firing natural gas.
[AC53-211670]

C.2. Visible Emissions. Visible emissions shall not exceed 20 percent opacity when firing new No. 2 fuel oil in the combustion turbine.
[AC53-211670]

Excess Emissions

{Permitting note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of a NSPS or NESHAP provision.}

C.3. Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.
[Rule 62-210.700(1), F.A.C.]

C.4. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

C.5. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run

cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.
[Rule 62-297.310(1), F.A.C.]

C.6. Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operation at permitted capacity as defined below. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance to regain the authority to operate at the permitted capacity. **Permitted capacity** is defined as 90 to 100 percent of the maximum operation rate allowed by the permit.
[Rule 62-297.310(2), F.A.C.]

C.7. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule.
[Rule 62-297.310(3), F.A.C.]

C.8. Applicable Test Procedures.
(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons
per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

(c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time

shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.
(d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, attached to this permit.
(e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.
[Rule 62-297.310(4), F.A.C.]

C.9. Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5), F.A.C.]

C.10. The permittee shall comply with the requirements contained in APPENDIX SS-1, Stack Sampling Facilities, attached to this permit.
[Rule 62-297.310(6), F.A.C.]

C.11. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

a Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 -- September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct

compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
[Rule 62-297.310(7), F.A.C.; and, SIP approved]

C.12. Annual compliance with the NOx, CO, SO_2 and visible emission standards shall be determined by the following reference methods as described in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C.

NO_x: EPA Method 20
CO: EPA Method 10
SO_2: Fuel supplier's sulfur analysis
VE: EPA Method 9

The owner or operator is allowed to make compliance demonstrations for NOx emissions using certified CEM system data, provided that compliance be based on a minimum of three test runs representing a total of at least three hours of data, and that the CEMS be calibrated in accordance with the procedure in section 6.2.3 of Method 20 following each run. Alternatively, compliance may be demonstrated using data collected during the initial relative accuracy test audit (RATA) performed on the NOx monitor. The applicable span value specified in 40 CFR Part 75 shall be used instead of that specified 40 CFR 60.335(c). The owner or operator is allowed to make compliance demonstrations for NOx emissions using certified CEM system data, provided that compliance be based on a minimum of three test runs representing a total of at least three hours of data, and that the CEMS be calibrated in accordance with the procedure in section 6.2.3 of Method 20 following each run. Alternatively, compliance may be demonstrated using data collected during the initial relative accuracy test audit (RATA) performed on the NOx monitor. The applicable span value specified in 40 CFR Part 75 shall be used instead of that specified 40 CFR 60.335(c).
[AC 53-211670 and 1050217-003-AC]

Continuous Monitoring Requirements

C.13. The power output from the generators shall be metered and continuously recorded. The data shall be logged daily and maintained so that it can be provided to DEP upon request.
[AC 53-211670]

Recordkeeping and Reporting Requirements

C.14. The owner of operator shall notify the Southwest District Office of the Department, in writing, at least 15 days prior to the date on which each test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
[Rule 62-297.310(7)(a)9., F.A.C.]

C.15. In case of excess emissions resulting from malfunctions, Polk Power Partners, L.P. shall notify the Department's Southwest District Office in accordance with 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

C.16. Test Reports.
(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
(b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

Reasonable Assurances

C.17. Any other operating parameters established during compliance testing and/or inspections, that will ensure the proper operation of this facility, are considered part of this operating permit. Said operating parameters include, but are not limited to: Fuel flow rate and heat input rate.
[Rule 62-4.070(3), F.A.C.]

Section IV. This section is the Acid Rain Part.

Operated by: Polk Power Partners, L.P.
ORIS code: 54426

Subsection A. This subsection addresses Acid Rain, Phase II.

The emissions unit(s) listed below are regulated under Acid Rain, Phase II.

E.U. ID No.	Brief Description
-001	Combustion Turbine with HRSG
-002	Secondary Boiler

A.1. The Phase II permit application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain unit(s) must comply with the standard requirements and special provisions set forth in the application(s) listed below:
a. DEP Form No. 62-210.900(1)(a), dated July 2, 2002
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

A.2. Sulfur dioxide (SO_2) allowance allocations requirements for each Acid Rain unit are as follows:

E.U. ID No.	EPA ID	Year	2003	2004	2005	2006	2007
-001	01	**SO2 allowances, under Table 2 or 3 of 40 CFR Part 73**	0*	0*	0*	0*	0*
-002	02	**SO2 allowances, under Table 2 or 3 of 40 CFR Part 73**	0*	0*	0*	0*	0*

*The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2 or 3 of 40 CFR 73.
**If applicable, by January 1, 1999, this Part will be reopened to add NOx requirements in accordance with the regulations implementing section 407 of the Clean Air Act.

A.3. Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.
1. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
2. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
3. Allowances shall be accounted for under the Federal Acid Rain Program.
[Rule 62-213.440(1)(c), F.A.C.]

A.4. Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described at Rule 62- 214.370(4), F.A.C., may request such change as provided in Rule 62-213.413, F.A.C., Fast-Track
Revisions of Acid Rain Parts.
[Rules 62-213.413 and 62-214.370(4), F.A.C.]

A.5. Comments, notes, and justifications: none

A.6. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.
[40 CFR 70.6(a)(1)(ii); and, Rule 62-210.200, Definitions - Applicable Requirements, F.A.C.]

Appendix U-1: List of Unregulated Emissions Units and/or Activities.

Polk Power Partners, L. P., Inc.
Mulberry Cogeneration Facility

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217

Unregulated Emissions Units and/or Activities. An emissions unit which emits no "emissions-limited pollutant" and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither 'regulated emissions units' nor 'insignificant emissions units'.

E.U. ID No.	Brief Description of Emissions Units and/or Activity
-003	New No. 2 Fuel Oil Tank (720,000 gal)

Appendix I-1: List of Insignificant Emissions Units and/or Activities.

Polk Power Partners, L. P., Inc.
Mulberry Cogeneration Facility

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, or that meet the criteria specified in Rule 62-210.300(3)(b)1., F.A.C., Generic Emissions Unit Exemption, are exempt from the permitting requirements of Chapters 62-210, 62-212 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining the potential emissions of the facility containing such emissions units. Emissions units and pollutant-emitting activities exempt from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emissions units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emissions unit shall be entitled to an exemption from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., if its emissions, in combination with the emissions of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

Brief Description of Emissions Units and/or Activities

1. Comfort heating < 1 MMBtu/hr
2. Internal combustion engines - mobile sources
3. Non-industrial vacuum cleaning
4. Refrigeration equipment
5. Vacuum pumps for labs
6. Steam cleaning equipment
7. Sanders < 5 sq. ft.
8. Lab equipment used for chemical or physical analyses
9. Brazing, soldering or welding equipment
10. Emergency generators < 32,000 gal/yr
11. General purpose engines < 32,000 gal/yr
12. Fire and safety equipment
13. Surface coating > 5% VOC; 6 gal/month
14. Surface coating < 5% VOC
15. Freshwater cooling towers. The cooling towers do not use chromium-based treatment chemicals.

Appendix H-1: Permit History

Polk Power Partners, L. P., Inc.
Mulberry Cogeneration Facility

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217

E.U. ID No.	Description	Permit No.	Effective Date	Expiration Date	Project Type [1]
All	Facility	AC53-211670/ PSD-FL-187	11/24/1992	12/31/1995	Construction (new)
All	Facility	AC53-211670/ PSD-FL-187	8/3/1994	12/31/1997	Construction (mod.)
All	Facility	1050217-001-AV	01/01/1998	12/31/2002	Initial
-001	Combustion Turbine (CT) with HRSG	1050217-003-AC/ PSD-FL-187A	Pending		Construction (mod.)
All	Facility	1050217-002-AV	Pending		Renewal

[1] Project Type (select one): Title V: Initial, Revision, Renewal, or Admin. Correction; Construction (new or mod.); or, Extension (AC only).

Table 1-1, Summary of Air Pollutant Standards and Terms

Polk Power Partners, L.P.
Mulberry Cogeneration

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No.	Brief Description
-001	Combustion Turbine (CT) with HRSG

			Allowable Emissions			Equivalent Emissions*			
Pollutant Name	Fuel(s)	Hours/Year	Standard(s)	lbs./hour	TPY	lbs./hour	TPY	Regulatory Citation(s)	See permit condition(s)
NOx	natural gas	8760	15 ppmvd @15% O_2	52.7	230.7				III. A.5.
NOx	No. 2 Oil	720	42 ppmvd @ 15% O_2	164.0	59.0				III.A.6.
SO2	No. 2 Oil	720	0.10 % by weight						III.A.7.
CO	natural gas	8760	25 ppmvd @ 15% O_2	53.0	232.0				III.A.9.
CO	No. 2 Oil	720	35 ppmvd @ 15% O_2	75.3	27.1				III.A.10.

Notes:
* The "Equivalent Emissions" listed are for informational purposes only.

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Table 1-1, Summary of Air Pollutant Standards and Terms

Polk Power Partners, L.P.
Mulberry Cogeneration

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No.	Brief Description
-002	Secondary Boiler

			Allowable Emissions			Equivalent Emissions*			
Pollutant Name	Fuel(s)	Hours/Year	Standard(s)	lbs./hour	TPY	lbs./hour	TPY	Regulatory Citation(s)	See permit condition(s)
NOx	natural gas	8760		18.3	80.0				III.B.4.
NOx	No. 2 Oil fired in CT	720		23.4	8.4				III.B.5
SO2	No. 2 Oil fired in CT	720	0.10 % by weight						III.B.6.
CO	natural gas	8760		12.6	55.2				III.B.7.
CO	No. 2 Oil fired in CT	720		13.4	4.8				III.B.8.

Notes:
* The "Equivalent Emissions" listed are for informational purposes only.

[electronic file name: 10502171.xls]

Table 2-1, Summary of Compliance Requirements

Polk Power Partners, L.P.
Mulberry Cogeneration Facility

PROPOSED Permit No.: 1050217-002-AV
Facility ID No.: 1050217

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No.	Brief Description
-001	Combustion Turbine with HRSG
-002	Secondary Boiler

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
NOx	Natural gas and No. 2 Oil	EPA Method 20	annual	26-Aug	1 hour	YES	III.C.12.
CO	Natural gas and No. 2 Oil	EPA Method 10	annual	26-Aug	1 hour		III.C.12.
SO2	Natural gas	ASTM D 1072-80, D 3031-81, D 4084-82 or D 3246-81***	see custom fuel monitoring schedule		not applicable		III.A.18.; A.22. and C.12.
	No. 2 Oil	ASTM D 2880-71***	From bulk storage: after each shipment no bulk storage: daily		not applicable not applicable		III.A.18., C.12.
VE	Natural gas and No. 2 Oil	EPA Method 9	annual	26-Aug			III.C.12.

Notes:
* The frequency base date is established for planning purposes only; see Rule 62-297.310, F.A.C.
**CMS [=] continuous monitoring system
*** The latest edition of the ASTM methods may be used.

electronic file name: 10502172.xls

Memorandum

Florida Department of
Environmental Protection

TO: A. Linero

THRU: Scott Sheplak

FROM Ed Svec

DATE: October 28, 2002

SUBJECT: Title V PROPOSED Operation Permit Renewal 1050217-002-AV

Attached is the Title V PROPOSED Operation Permit Renewal for Polk Power Partners, L.P., Inc. Mulberry Cogeneration Facility for your review and approval. No comments on the DRAFT Permit Renewal were received.

I recommend your approval of this PROPOSED permit.

attachments

Florida's PROPOSED Permit Electronic Notification Cover Memorandum

TO: Gracy Danois, U.S. EPA Region 4

CC: Jeaneanne Gettle, U.S. EPA Region 4

THRU: Scott Sheplak, P.E., Bureau of Air Regulation

FROM: Edward J. Svec, Permit Engineer

DATE: October 28, 2002

RE: U.S. EPA Region 4 PROPOSED Title V Operation Permit Renewal Review

The following PROPOSED Title V operation permit(s) and associated documents have been posted on the DEP World Wide Web Internet site for your review. Please provide any comments via Internet E-mail, within forty five (45) days of receiving this notice, to Scott Sheplak, at "SHEPLAK_S@dep.state.fl.us".

Applicant Name	County	Method of Transmittal	Electronic File Name(s)
Polk Power Partners Mulberry Cogeneration Facility	Polk	INTERNET	1050217p.zip

This zipped file contains the following electronic files:

1050217-002-AVp.doc
10502171.xls
10502172.xls
1050217h.doc
1050217u.doc
1050217g.doc
sob.doc
1050217-003-ACf.doc
1050217te&fd.doc
Final MEMO.doc