

Florida Department of  
Environmental Protection

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**Memorandum**

TO: Joseph Kahn, Director

THRU: Trina Vielhauer, Bureau Chief  
A. Linero, Permitting South Administrator

FROM: Teresa Heron *T.H.*

DATE: December 3, 2007

SUBJECT: Progress Energy Florida, Inc  
FINAL Title V Permit Renewal  
Avon Power Plant

The Title V FINAL Permit Renewal for this facility is attached for your approval and signature.

TLV/aal/tmh

Attachments

**NOTICE OF FINAL TITLE V PERMIT RENEWAL**

In the Matter of an  
Application for Permit by:

Ms. Julie Turner  
Responsible Official  
Progress Energy Florida, Inc  
6525 Osceola-Polk County Line Rd  
St. Petersburg, Florida 33848

Highlands County  
FINAL Permit Project No.: **0550003-005-AV**  
Avon Park Power Plant  
Progress Energy Florida  
Facility ID No. **0550003**

Enclosed is the FINAL Title V Permit Renewal, No. 0550003-005-AV for the Avon Park Power Plant located at 1172 Memorial Drive, Avon Park, Highlands County.

This permit renewal is issued pursuant to Chapter 403, Florida Statutes (F.S.). There were no comments received from Region 4, U.S. EPA, regarding the PROPOSED Permit.

Any party to this order (permit renewal) has the right to seek judicial review of the permit renewal pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and, by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.



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Trina L. Vielhauer, Chief  
Bureau of Air Regulation

TLV/aal/tmh

Enclosures

Title V Air Operation Permit Renewal  
FINAL Permit Project No.: 0550003-005-AV  
Avon Park Power Plant  
Progress Energy Florida  
Page 2 of 3

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this "Notice of Final Permit" (including the Statement of Basis and the FINAL Permit/package) was sent by electronic mail (received receipt requested) before the close of business on 12/19/07 to the persons listed below:

E-mail Copy furnished to:

Julie Turner, PEF: [Julie.Turner@pgnmail](mailto:Julie.Turner@pgnmail)  
Scott Osbourn, PEF, P.E: [sosbourn@golder.com](mailto:sosbourn@golder.com)  
Dave Meyer, PEF: [Dave.Meyer@pgnmail.com](mailto:Dave.Meyer@pgnmail.com)  
Jim Little, EPA Region 4: [little.james@epamail.epa.gov](mailto:little.james@epamail.epa.gov)  
Kathy Forney, EPA Region 4: [forney.kathleen@epamail.epa.gov](mailto:forney.kathleen@epamail.epa.gov)  
James Bradner, DEP: [james.bradner@dep.state.fl.us](mailto:james.bradner@dep.state.fl.us)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
(Clerk) Friday 12/19/07 (Date)

Title V Air Operation Permit Renewal  
FINAL Permit Project No.: 0550003-005-AV  
Avon Park Power Plant  
Progress Energy Florida  
Page 3 of 3

## **FINAL DETERMINATION**

### **I. Comments.**

No comments were received from the USEPA during their 45 day review period of the PROPOSED Permit. Day 45 is December 15, 2007.

### **II. Conclusion.**

In conclusion, the permitting authority hereby issues the FINAL Permit.

## **STATEMENT OF BASIS**

Progress Energy Florida  
Avon Park Plant  
Facility ID No. 0550003  
Highlands County

FINAL Permit Project No. 0550003-005-AV  
Title V Operation Permit Renewal

The application is for a routine renewal of the 5 year Title V Operation Permit (Permit Renewal) for the Progress Energy Avon Park Power Plant. There are no significant changes in the present renewal compared with the previous one.

This Title V 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, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work or 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.

This facility consists of two nominal 33.8 megawatt gas turbine peaking units that are permitted to fire natural gas or No. 2 fuel oil with a maximum sulfur limitation of 1 percent. The two units began commercial service in 1968.

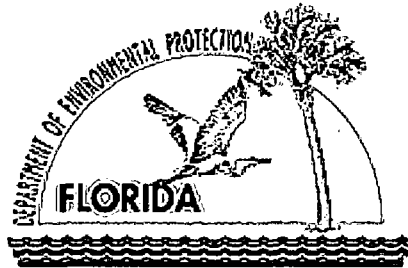
Based on the application received July 5, 2007, this facility is not a major source of hazardous air pollutants (HAP). These units are not subject to the Standards of Performance for Stationary Gas Turbines at 40 CFR 60, Subpart GG. There is no emission control equipment on these units. Therefore a compliance assurance monitoring (CAM) plan is not required.

A fossil fuel fired steam generator is listed in the Draft Permit Renewal as ARMS E.U. ID No. 002 and EPA ID 2. It was retired in 1995. It has since been dismantled and removed from the facility. The facility holds ORIS facility code 0624 for that unit under the Federal Acid Rain Program. The final "Retired Unit Exemption" was issued by the U.S. EPA Region 4 on January 31, 1997. The allowances corresponding to this retired unit are included in this Permit Renewal.

Progress Energy Florida  
**Avon Park Plant**  
Facility ID No.: **0550003**  
Highlands County

Title V Air Operation Air Permit Renewal

FINAL Permit Project No. **0550003-005-AV**



Permitting Authority:

State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation

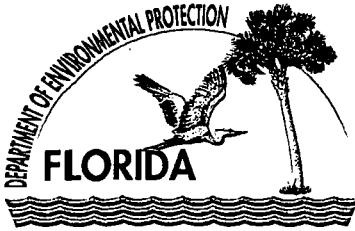
Mail Station #5505  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Phone: 850/488-0114  
Fax: 850/922-6979

Title V Air Operation Permit  
FINAL Permit Renewal No. 0550003-005-AV

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# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blairstone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor  
Jeff Kottkamp  
Lt. Governor  
Michael W. Sole  
Secretary

**Permittee:**

Progress Energy Florida, Inc  
6525 Osceola-Polk County Line Rd  
Intercession City, Florida 33848

FINAL Permit Renewal No. **0550003-005-AV**

Facility ID No. **0550003**

**SIC No.:** 4911

**Project:** Title V Air Operation Permit Renewal

The purpose of this permit is for the renewal of the Title V Air Operating Permit. This facility is located at 1172 Memorial Drive, Avon Park, Highlands County. UTM Coordinates: Zone 17, 451.4 km East and 3050.5 km North; Latitude: 27° 34' 45" North and Longitude: 81° 29' 33" 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, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work or 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-6, Title V Conditions, version dated 06/23/06.

Retired Unit Exemption dated June 20, 2007.

**Effective Date:** January 1, 2008

**Renewal Application Due Date:** July 5, 2012

**Expiration Date:** December 31, 2012

Joseph Kahn, Director  
Division of Air Resource  
Management

JK/tlv/aal/tmh



**Section I. Facility Information.**

**Subsection A. Facility Description.**

This facility consists of two gas turbine peaking units, designated No. 1 and No. 2. Both units have separate exhaust stacks, and are permitted to fire No. 2 fuel oil or natural gas. Each turbine is rated at 33.8 MW, at a maximum heat input of 562.6 mmBtu/hr. The facility also includes a retired Acid Rain unit. In addition, included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V permit renewal application received July 5, 2007, 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).**

<b>E.U. ID No.</b>	<b>Brief Description</b>
-003	Gas Turbine Peaking Unit No. 1
-004	Gas Turbine Peaking Unit No. 2
-002	Fossil Fuel Fired Steam Generator (Retired Acid Rain Unit)

*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 / ID Number Changes.

Statement of Basis.

These documents and related correspondence are on file with the permitting authority:

Initial Title V Permit, 0550003-001-AV, issued on December 29, 1997

Title V Permit Renewal, 0550003-002-AV, issued on December 24, 2002

Title V Permit Revision, No. 0550003-004-AV, effective date August 4, 2005

Title V Permit Renewal, No. 0550003-005-AV, effective date January 1, 2008

Documents listed in Appendix H-1- History

**Section II. Facility-wide Conditions.**

**The following conditions apply facility-wide:**

1. Appendix TV-6, Title V Conditions, is a part of this permit.  
{Permitting note: Appendix TV-6, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided with only one copy when requested or otherwise appropriate.}
  2. **Not federally enforceable.** General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not 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.  
[Rule 62-296.320(4)(b)1., & 4., F.A.C.]
  4. Prevention of Accidental Releases (Section 112(r) of the Clean Air Act).
    - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:  

RMP Reporting Center  
Post Office Box 1515  
Lanham-Seabrook, Maryland 20703-1515  
Telephone: 301/429-5018
- and,
- b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.  
[40 CFR 68]
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 62-213.430(6), F.A.C.]
7. [Reserved.]
8. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle,

process, load, unload or use in any process or installation, VOCs or OSs without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1)(a), F.A.C.]

**9. Not federally enforceable.** Reasonable precautions shall be taken to prevent emissions of unconfined particulate matter at this facility. Specific steps shall be taken at the facility to minimize particulate emissions as follows:

- Maintenance of paved areas as needed,
- Regular mowing of grass and care of vegetation, and
- Limiting access to plant property by unnecessary vehicles.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by applicant in the Title V permit renewal application received July 5, 2007.]

{Note: This condition implements the requirements of Rules 62-296.320(4)(c)1., 3., & 4., F.A.C. (see Condition 57. of Appendix TV-6, Title V Conditions).}

**10. Timely Recording, Monitoring and Reporting:** 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-6, Title V Conditions).}

**12. State Compliance Authority:** The permittee shall submit all compliance related notifications and reports required of this permit to the Department's South District office:

Department of Environmental Protection  
South District Office  
2295 Victoria Avenue, Suite 364  
Fort Myers, Florida 33902-2549  
Telephone: (239) 332-6975  
Fax: (239) 332-6969

13. EPA Compliance Authority: Any reports, data, notifications, certifications, and requests required for 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  
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(s) & Conditions.**

**Subsection A. This section addresses the following emissions units.**

<b>E. U. ID No.</b>	<b>Brief Description</b>
-003	Gas Turbine Peaking Unit No. 1
-004	Gas Turbine Peaking Unit No. 2

The above referenced gas turbines may fire natural gas or No. 2 fuel oil having a maximum sulfur content of 1.0 percent by weight. Each gas turbine is rated at 33.8 MW (megawatts of electricity), and has a maximum heat input of 562.6 mmBtu/hr. Emissions are *not controlled*, and each turbine exhausts through a separate stack. The units began commercial service in 1968.

{Permitting Note: The emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. However, these units are *not* subject to any federal requirements, NSPS - 40 CFR 60 Subpart GG, Standards of Performance for Stationary Gas Turbines, or the Federal Acid Rain Program.}

**The following specific conditions apply to both of the above referenced emissions units:**

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

**A.1. Permitted Capacity.** The maximum heat input rate to each turbine shall not exceed 562.6 mmBtu/hour while firing No. 2 fuel oil or natural gas.  
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rated capacity that the unit was tested. Rule 62-297.310(5), F.A.C., included in the permit, requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various methods including but not limited to fuel flow metering or tank drop measurements, using the heat value of the fuel determined by the fuel vendor or the owner or operator, to calculate average hourly heat input during the test.}

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See Specific Condition **A.13**.

**A.3. Methods of Operation - Fuels.** Only natural gas or No. 2 fuel oil, having a maximum sulfur content of 1.0 percent, by weight, shall be fired in the turbines.  
[Rules 62-4.160(2) and 62-213.440(1), F.A.C.]

**A.4. Hours of Operation.** These emissions units may 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.}

**A.5. Visible Emissions.** Visible emissions from each turbine shall not be equal to or greater than 20 percent opacity.

{Permitting note: Unless otherwise specified, the averaging time for Specific Condition **A.5.** is based on the specified averaging time of the applicable test method.}

[Rule 62-296.320(4)(b)1., F.A.C.; and, AÖ28-202500.]

**A.6. Not federally enforceable. Sulfur Content.** The sulfur content of the No. 2 fuel oil shall not exceed 1.0 percent, by weight.

[0550003-001-AV, Specific Condition A.6.]

### **Excess Emissions**

**A.7.** Excess emissions from these emissions units 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.]

**A.8.** 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.]

### **Monitoring of Operations**

**A.9.** The permittee shall demonstrate compliance with the sulfur content limit with a fuel analysis provided by the vendor or permittee upon each fuel delivery. See Specific Condition **A.12.**

[Rule 62-213.440, F.A.C.; and, AO28-202500.]

**A.10. 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.]

## **Test Methods and Procedures**

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**A.11.** The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C.  
[Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.]

**A.12.** The fuel sulfur content, percent by weight, provided by the vendor or permittee for each delivery of liquid fuels shall be evaluated using either ASTM D1552-90 or later editions, ASTM D2622-94, ASTM D4294-90, or both ASTM D4057-88 and ASTM D129-91, or later edition(s). In addition, any ASTM method (or later editions) referenced in Rule 62-297-440(1) F.A.C., or in 40 CFR 60.335 (b) (10) is acceptable.  
[Rules 62-213.440 and 62-297.440, F.A.C.]

**A.13. Operating Rate During Testing.** Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity (i.e., at less than 90 percent of the maximum operation rate allowed by the permit); in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted, provided however, operations do not exceed 100 percent of the maximum operation rate allowed by the permit. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.  
[Rule 62-297.310(2), F.A.C.]

**A.14. Applicable Test Procedures.**

**(a) Required Sampling Time.**

2. Opacity Compliance Tests. When EPA 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:

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.

[Rule 62-297.310(4)(a)2.c., F.A.C.]

**A.15. 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 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;
  8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.
  9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
  10. An annual compliance test conducted for visible emissions shall not be required for units exempted from permitting at Rule 62-210.300(3)(a), F.A.C., or units permitted under the General Permit provisions at Rule 62-210.300(4), F.A.C.

(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]

**A.16. Visible Emissions Testing - Annual**. By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

- a. only gaseous fuels; or
- b. gaseous fuels in combination with any amount of liquid fuels for less than 400 hours per year; or
- c. only liquid fuels for less than 400 hours per year.

[Rules 62-297.310(7)(a)4. and 8., F.A.C.]



**Recordkeeping and Reporting Requirements**

**A.17. Malfunction Reporting.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.  
[Rule 62-210.700(6), F.A.C.]

**A.18. 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.

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

**Section IV. Acid Rain Part.**

**Operated by: Progress Energy Florida**  
**ORIS code: 0624**

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

The emissions unit listed below is regulated under Phase II of the Federal Acid Rain Program.

<b>E.U. ID No.</b>	<b>Description</b>
-002	Fossil Fuel Fired Steam Generator - PERMANENTLY RETIRED

1. The “Retired Unit Exemption” form submitted for this facility constitutes the Acid Rain Part application pursuant to 40 CFR 72.8 and is a part of this permit. The owners and operators of this acid rain unit shall comply with the standard requirements and special provisions set forth in DEP Form No. 62-210.900(1)(a)3., dated April 16, 2001, and signed by the designated representative on July 30, 2002. This unit is subject to the following: 40 CFR 72.1 which requires the unit to have an Acid Rain Part as part of its Title V permit; 40 CFR 72.2 which provides associated definitions; 40 CFR 72.3 which provides measurements, abbreviations, and acronyms; 40 CFR 72.4 which provides the federal authority of the Administrator; 40 CFR 72.5 which provides the authority of the states; 40 CFR 72.6 which makes the boiler a Phase II unit; 40 CFR 72.10 which gives the public access to information about this unit; and, 40 CFR 72.13 which incorporates certain ASTM methods into 40 CFR Part 72. [Chapter 62-213 and Rule 62-214.340, F.A.C.]

2. Sulfur dioxide (SO<sub>2</sub>) allowance allocations for the Acid Rain unit are as follows:

<b>E.U. ID No.</b>	<b>EPA ID</b>	<b>Year</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
-002	2	<b>SO<sub>2</sub> allowances, under Table 2 of 40 CFR 73</b>	495*	495*	495*	495*	495*

\*The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the U. S. EPA under Table 2 of 40 CFR 73.

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.

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.440(3), F.A.C.

b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain program.

c. Allowances shall be accounted for under the Federal Acid Rain Program.

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

4. The designated representative of this acid rain unit applied for an exemption from the requirements of the Federal Acid Rain Program by submitting a completed and signed “Retired Unit Exemption” form (DEP Form No. 62-210.900(1)(a)3., F.A.C., attached) to the Department. The date of

permanent retirement is January 1, 1995. The unit has been completely dismantled and removed from the facility. Permit AO 28-211596 for this unit has been formally surrendered by letter on November 21, 1996. The final "Retired Unit Exemption" was issued by the U.S. EPA Region 4 on January 31, 1997. [Rule 62-214.340(2), F.A.C.; and, 40 CFR 72.8.]

5. Where an applicable requirement of the Act is more stringent than applicable 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, F.A.C., Definitions – Applicable Requirements.]

**Appendix U-1. List of Unregulated Emission Units and/or Activities.**

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 unit is neither a “regulated emissions unit” nor an “insignificant emissions unit”.

E.U. ID No.	Brief Description of Emission Unit(s) and/or Activity
-002	Fossil Fuel Fired Steam Generator (Retired Acid Rain Unit)

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

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. Lube Oil Vent with demister
2. Fuel Oil Storage Tanks (underground) - 2600 gal.
3. Two Waste Oil Storage Tanks - 550 gal.
4. Tank No. CT5 - No. 2 Fuel Oil (10,000 bbls)
5. Turbine Lube Oil Tank - 800 gal.

**Appendix H-1. Permit History/ID Number Changes.**

**Permit History (for tracking purposes):**

E.U. ID No.	Description	Permit No.	Issue Date	Expiration Date	Extended Date	Revised Date(s)
-003	Gas Turbine Peaking Unit (GTPU) No. 1	AO28-202500	10/10/91	10/10/96	08/16/96	
		0550003-001-AV	01/01/98	12/31/02		
-004	Gas Turbine Peaking Unit (GTPU) No. 2	AO28-202500	10/10/91	10/10/96	08/16/96	
		0550003-001-AV	01/01/98	12/31/02		
-002	Fossil Fuel Fired Steam Generator (Retired Acid Rain Unit)	AO28-211596	05/12/92	05/12/97*		
		0550003-001-AV	01/01/98	12/31/02		
003 & 004	GTPU No. 1 and No. 2	0550003-002-AV	12/24/2002			Renewal
		0550003-003-AV				No assigned
003 & 004	GTPU No. 1 and No. 2	0550003-004-AV				Revision
003 & 004	GTPU No. 1 and No. 2	0550003-005-AV				Renewal

**ID Number Changes (for tracking purposes):**

From: Facility ID No.: 52FTM280003

To: Facility ID No.: 0550003

\*Permit AO28-211596 was formally surrendered on November 21, 1996. This Retired Acid Rain Unit was permanently shutdown on January 21, 1984. It has been dismantled and removed from the plant site.

**Table 1-1. Summary of Air Pollutant Standards and Terms.**

Progress Energy Florida Avon Park Plant			Permit No. 0550003-005-AV Facility ID No. 0550003						
This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.									
<b>E.U. ID No.</b>		<b>Brief Description</b>							
-003		Gas Turbine Peaking Unit No. 1							
-004		Gas Turbine Peaking Unit No. 2							
			<b>Allowable Emissions</b>			<b>Equivalent Emissions*</b>			
<b>Pollutant Name</b>	<b>Fuel(s)</b>	<b>Hours/Year</b>	<b>Standard(s)</b>	<b>lbs./hour</b>	<b>TPY</b>	<b>lbs./hour</b>	<b>TPY</b>	<b>Regulatory Citation(s)</b>	<b>See permit conditions</b>
VE	No.2 fuel oil Natural Gas	8,760	Less than 20%	N/A	N/A			Rule 62-296.320(4)(b)1., F.A.C.	A.5.
SO <sub>2</sub>	No.2 fuel oil Natural Gas	8,760	1.0 % sulfur content by weight			577.0	2,527.0	A028-202500	A.6.
Notes:									
* The "Equivalent Emissions" listed are for informational purposes only.									

**Table 2-1. Summary of Compliance Requirements.**

Progress Energy Florida Avon Park Plant		Permit No. 0550003-005-AV Facility ID No. 0550003					
This table summarizes information for convenience purposes only. It does not supersede any of the terms or conditions of the permit.							
<b>E.U. ID No.</b>		<b>Brief Description</b>					
-003		Gas Turbine Peaking Unit No. 1					
-004		Gas Turbine Peaking Unit No. 2					
Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time	Frequency	Min. Compliance		
			Frequency	Base Date *	Test Duration	CMS**	See permit conditions
VE	All	EPA Method 9	Annually ***	17-Mar	30 Minutes		<b>A.16.</b>
SO <sub>2</sub>	Oil	Fuel Sampling and Analysis	Per delivery ticket				<b>A.9., A.12.</b>
Notes:							
* The frequency base date is established for planning purposes only; see Rule 62-297.310, F.A.C.							
** CMS [=] continuous monitoring system							
*** If a combustion turbine is operated less than 400 hours per year, test is only required once every 5 years, during the year prior to permit renewal.							



**Friday, Barbara**

---

**To:** Julie.Turner@pgnmail.com; 'sosbourn@golder.com'; Meyer, Dave;  
'Little.James@epamail.epa.gov'; Forney.Kathleen@epamail.epa.gov; Bradner, James

**Cc:** Heron, Teresa

**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

**Attachments:** 0550003005NoticeofFinalPermit&FD.pdf; 0550003005FinalPermit.pdf;  
0550003005FinalPermitSignaturePage.pdf; 0550003005FINALStatement of Basis.pdf;  
0550003005FINALTable 1.pdf; 0550003005FINALTable 2.pdf

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12/19/2007

**Friday, Barbara**

---

**From:** System Administrator  
**To:** Bradner, James  
**Sent:** Wednesday, December 19, 2007 10:32 AM  
**Subject:** Delivered:FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

Your message

**To:** 'Julie.Turner@pgnmail.com'; 'sosbourn@golder.com'; 'Meyer, Dave'; 'Little.James@epamail.epa.gov';  
'Forney.Kathleen@epamail.epa.gov'; Bradner, James  
**Cc:** Heron, Teresa  
**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant  
**Sent:** 12/19/2007 10:32 AM

was delivered to the following recipient(s):

Bradner, James on 12/19/2007 10:32 AM

**Friday, Barbara**

---

**From:** System Administrator  
**To:** Heron, Teresa  
**Sent:** Wednesday, December 19, 2007 10:32 AM  
**Subject:** Delivered:FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc.  
- Avon Park Power Plant

Your message

**To:** 'Julie.Turner@pgnmail.com'; 'sosbourn@golder.com'; 'Meyer, Dave'; 'Little.James@epamail.epa.gov';  
'Forney.Kathleen@epamail.epa.gov'; Bradner, James  
**Cc:** Heron, Teresa  
**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant  
**Sent:** 12/19/2007 10:32 AM

was delivered to the following recipient(s):

Heron, Teresa on 12/19/2007 10:32 AM

**Friday, Barbara**

---

**From:** Mail Delivery System [MAILER-DAEMON@sophos.golder.com]  
**Sent:** Wednesday, December 19, 2007 10:32 AM  
**To:** Friday, Barbara  
**Subject:** Successful Mail Delivery Report

**Attachments:** Delivery report; Message Headers



Delivery report.txt  
(461 B)

Message  
Headers.txt (2 KB)

This is the mail system at host sophos.golder.com.

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

The mail system

<sosbourn@golder.com>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent  
47693965\_17450\_374\_1

## Friday, Barbara

---

**From:** Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]  
**Sent:** Wednesday, December 19, 2007 10:32 AM  
**To:** Friday, Barbara  
**Subject:** Successful Mail Delivery Report

**Attachments:** Delivery report; Message Headers



Delivery report.txt  
(723 B)

Message  
Headers.txt (2 KB)

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

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

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250  
OK, sent 47693965\_15998\_40901\_1

<Little.James@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250  
OK, sent 47693965\_15998\_40901\_1

**Friday, Barbara**

---

**From:** Osbourn, Scott [Scott\_Osbourn@golder.com]  
**To:** undisclosed-recipients  
**Sent:** Wednesday, December 19, 2007 10:36 AM  
**Subject:** Read: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

Your message

To: Scott\_Osbourn@golder.com  
Subject:

was read on 12/19/2007 10:36 AM.

**Friday, Barbara**

---

**From:** Forney.Kathleen@epamail.epa.gov  
**Sent:** Wednesday, December 19, 2007 10:50 AM  
**To:** Friday, Barbara  
**Subject:** Re: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

thanks

-----  
Katy R. Forney  
Air Permits Section  
EPA - Region 4  
61 Forsyth St., SW  
Atlanta, GA 30024

Phone: 404-562-9130  
Fax: 404-562-9019

"Friday,  
Barbara"  
<Barbara.Friday@  
dep.state.fl.us>

12/19/2007 10:31  
AM

To  
<Julie.Turner@pgnmail.com>,  
<sosbourn@golder.com>, "Meyer,  
Dave" <Dave.Meyer@pgnmail.com>,  
James Little/R4/USEPA/US@EPA,  
Kathleen Forney/R4/USEPA/US@EPA,  
"Bradner, James"  
<James.Bradner@dep.state.fl.us>  
cc  
"Heron, Teresa"  
<Teresa.Heron@dep.state.fl.us>  
Subject  
FINAL Title V Permit Renewal No.:  
0550003-005-AV - Progress Energy  
Florida, Inc. - Avon Park Power  
Plant

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**Friday, Barbara**

---

**From:** Turner, Julie [julie.turner@pgnmail.com]  
**Sent:** Wednesday, December 19, 2007 12:51 PM  
**To:** Friday, Barbara  
**Subject:** RE: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

received

-----Original Message-----

**From:** Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]  
**Sent:** Wednesday, December 19, 2007 10:32 AM  
**To:** Turner, Julie; sosbourn@golder.com; Meyer, Dave; Little.James@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Bradner, James  
**Cc:** Heron, Teresa  
**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

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## Friday, Barbara

---

**From:** Turner, Julie [julie.turner@pgnmail.com]  
**To:** Friday, Barbara  
**Sent:** Wednesday, December 19, 2007 12:49 PM  
**Subject:** Read: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

Your message

To: julie.turner@pgnmail.com  
Subject:

was read on 12/19/2007 12:49 PM.

**Friday, Barbara**

---

**From:** Heron, Teresa  
**To:** Friday, Barbara  
**Sent:** Wednesday, December 19, 2007 11:26 AM  
**Subject:** Read: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

Your message

**To:** 'Julie.Turner@pgnmail.com'; 'sosbourn@golder.com'; 'Meyer, Dave'; 'Little.James@epamail.epa.gov'; 'Forney.Kathleen@epamail.epa.gov'; Bradner, James  
**Cc:** Heron, Teresa  
**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant  
**Sent:** 12/19/2007 10:32 AM

was read on 12/19/2007 11:26 AM.

**Friday, Barbara**

---

**From:** Bradner, James  
**Sent:** Wednesday, December 19, 2007 11:12 AM  
**To:** Friday, Barbara  
**Subject:** RE: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

Got it. Thanks and enjoy the holidays!

---

**From:** Friday, Barbara  
**Sent:** Wednesday, December 19, 2007 10:32 AM  
**To:** 'Julie.Turner@pgnmail.com'; 'sosbourn@golder.com'; 'Meyer, Dave'; 'Little.James@epamail.epa.gov'; 'Forney.Kathleen@epamail.epa.gov'; Bradner, James  
**Cc:** Heron, Teresa  
**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

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12/19/2007

## Friday, Barbara

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**From:** Bradner, James  
**To:** Friday, Barbara  
**Sent:** Wednesday, December 19, 2007 11:12 AM  
**Subject:** Read: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

### Your message

**To:** 'Julie.Turner@pgnmail.com'; 'sosbourn@golder.com'; 'Meyer, Dave'; 'Little.James@epamail.epa.gov'; 'Forney.Kathleen@epamail.epa.gov'; Bradner, James  
**Cc:** Heron, Teresa  
**Subject:** FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant  
**Sent:** 12/19/2007 10:32 AM

was read on 12/19/2007 11:11 AM.

## Friday, Barbara

---

**From:** Meyer, Dave [Dave.Meyer@pgnmail.com]  
**To:** Friday, Barbara  
**Sent:** Wednesday, December 19, 2007 4:21 PM  
**Subject:** Read: FINAL Title V Permit Renewal No.: 0550003-005-AV - Progress Energy Florida, Inc. - Avon Park Power Plant

Your message

To: Dave.Meyer@pgnmail.com  
Subject:

was read on 12/19/2007 4:21 PM.