



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

## PROPOSED Permit Electronic Posting Courtesy Notification

Florida Power Corporation  
Tiger Bay Cogeneration Facility  
**Facility ID No.:** 1050223  
Polk County

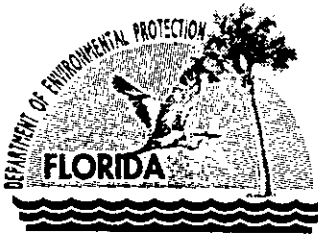
Initial Title V Air Operation Permit  
**PROPOSED Permit No.:** 1050223-002-AV

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 June 24, 1999.

USEPA's review period ends on the 45th day after the permit posting date. Day 45 is August 8, 1999. 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 August 18, 1999.

The web site address is <http://www2.dep.state.fl.us/air>.



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# Department of Environmental Protection

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

David B. Struhs  
Secretary

June 10, 1999

Jeffrey Pardue, C.E.P.  
Florida Power Corporation  
3201 34<sup>th</sup> St. S., P.O. Box 14042  
St. Petersburg, FL 33711

Re: PROPOSED Title V Permit No. 1050223-002-AV  
Tiger Bay Cogeneration Facility

Dear Mr. Pardue:

One copy of the "PROPOSED PERMIT DETERMINATION" for the Tiger Bay Cogeneration Facility located at 3219 State Road 630 East, Ft. Meade, Polk County, is enclosed. This letter is only a courtesy to inform you that the DRAFT permit has become a PROPOSED permit.

An electronic version of this determination has been 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. The web site address is <http://www2.dep.state.fl.us/air>.

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 either Jonathan Holtom, at 850/921-9531, or Ross Pollock, at 850/921-8968.

Sincerely,

C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/jh/rp  
Enclosures

copy furnished to:  
Mr. Ken Kosky, P.E., Golder and Associates (E-mail Memorandum)  
Mr. Bill Thomas, DEP - SWD (E-mail Memorandum)  
Ms. Gracy Danois, USEPA, Region 4 (INTERNET E-mail Memorandum)  
Ms. Carla E. Pierce, USEPA, Region 4 (INTERNET E-mail Memorandum)

6/25/99  
cc: Reading File  
Jonathan Holtom

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

## **PROPOSED PERMIT DETERMINATION**

### **I. Public Notice.**

An "INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" to Florida Power Corporation for the Tiger Bay Cogeneration Facility located at 3219 State Road 630 East, Ft. Meade, Polk County was clerked on October 27, 1998. The "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" was published in the Lakeland Ledger on November 10, 1998. The DRAFT Title V Air Operation Permit was available for public inspection at the Department of Environmental Protection's Southwest District office in Tampa and the permitting authority's office in Tallahassee. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" was received on November 20, 1998.

### **II. Public Comment(s).**

Comments were received and the DRAFT Title V Operation Permit was changed. The comments were not considered significant enough to reissue the DRAFT Title V Permit and require another Public Notice. Comments were received from one respondent during the 30 (thirty) day public comment period. Listed below is each comment letter in the chronological order of receipt and a response to each comment in the order that the comment was received. The comment(s) will not be restated. Where duplicative comments exist, the original response is referenced.

A. Letter from Mr. Scott H. Osbourn, Florida Power Corporation dated January 21, 1999, and received on January 22, 1999.

**Comment # 1:** Page 2. The Title V application (Facility Regulatory Classification) indicated that the facility was not a major source of HAPs. To the best of our knowledge, the facility classification has not changed.

**Response:** The correction will be made.

**Comment # 2:** Page 3. Brief Description of Unregulated Units. FPC requests that the units described as unregulated (i.e., internal combustion engines, emergency generator, and fresh water cooling towers) be re-classified as insignificant.

**Response:** The Department acknowledges the comment. The requested change will be made with a fuel restriction of less than 16,000 gallons per year, collectively.

As a result of this comment, Appendix U-1, and all references to Appendix U-1, are deleted and the following entries are added to Appendix I-1:

- 9. Diesel Fuel fired emergency generator Firing Less Than 16,000 Gallons Per Year Of Diesel Fuel
- 11. Diesel Fuel Fired Emergency Generator Firing Less Than 16,000 Gallons Per Year Of Diesel Fuel.
- 33. Fresh Water Cooling Towers

**Comment # 3:** Page 7. Description. First Paragraph. The model number listed in line 2 for the combustion turbine should be MS7221 FA. The MS7001 FA is the general model classification made by General Electric. The HRSG was not manufactured by GE, as stated in line 4. Since the HRSG is not an

emissions unit, it is not necessary to include a vendor designation. Also, all references to a duct burner, fuels for a duct burner, and emissions from the HRSG because of a duct burner, should be deleted as the duct burner has been physically removed.

**Response:** The Department acknowledges the comment. The conditions for, and all references to, the duct burner will be removed.

**Comment # 4:** Page 7. Second Paragraph. The flow rate listed in the paragraph (4<sup>th</sup> line) is for distillate oil; the flow rate listed in the application is 1,072,001 acfm. It should be noted the flow and other parameters change as a result of load and turbine inlet temperature. These data were included in the original construction permit application. It is suggested that these data be so qualified. Also, for your information, the statement that the emissions from the CT are controlled with DLN 2.6 will be accurate when the permit becomes effective; FPC has ordered this equipment and will have it installed in 1999.

**Response:** The Department agrees with the comment, the permit can be amended to reflect that the flow rate does change due to the load and the turbine inlet temperature. The permit will be changed as follows:

**From:** {Permitting notes: The CT is regulated under 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, the HRSG is regulated under 40 CFR 60, Subpart Dc, Standards of Performance for Industrial, Commercial and Institutional Steam Generating Units. The facility began commercial operation on July 20, 1994. Stack height = 180 feet, exit diameter = 19.0 feet, exit temperature = 205 °F, actual volumetric flow rate = 1,072,001 acfm. Emissions from the CT are controlled by the use of dry low-NO<sub>x</sub> (DLN 2.6) burners when firing natural gas and by water injection while firing fuel oil. Emissions from the HRSG are uncontrolled.}

**To:** {Permitting notes: The CT is regulated under 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines. The facility began commercial operation on July 20, 1994. Stack height = 180 feet, exit diameter = 19.0 feet, exit temperature = 205 °F, actual volumetric flow rate = 1,072,001 acfm. The actual volumetric flow rate may change as a result of the load and the turbine inlet temperature. Emissions from the CT are controlled by the use of dry low-NO<sub>x</sub> (DLN 2.6) burners when firing natural gas and by water injection while firing fuel oil.}

**Comment # 5:** Page 7. Condition A.3. This Condition should be deleted because it does not impose any existing requirement; it simply states that a "modification" to the unit will subject it to the NSPS requirements.

**Response:** The Department believes that this condition is an applicable requirement. No change will be made.

**Comment # 6:** Page 8. Condition A.4. This Condition should clarify that the heat input is dependent upon the ambient temperature in accordance with manufacturer's curves. Also, as stated above, the reference to the duct burner should be deleted.

**Response:** The Department acknowledges the comment. A permit note can be added to the condition to clarify that the heat input is dependent upon the ambient temperature in accordance with manufacturer's curves.

As a result of this comment **Condition # A.4.** is hereby changed:

**From:** Permitted Capacity.

Combustion Turbine. The maximum heat input to the Combustion Turbine (CT) shall not exceed:

- a) 1,710 MMBtu/hr (LHV) at 27°F and at base load for natural gas.
- b) 1,849.9 MMBtu/hr (LHV) at 27°F and at base load for distillate fuel oil.

Duct Burner. The maximum heat input to the duct burner (DB) shall not exceed 100 MMBtu/hr (HHV) of natural gas.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 40 CFR 60.332(b); PSD-FL-190; and, 1050223-001-AC].

{Permitting note: The heat input limitations have been placed in the permit to identify the capacity of each emissions unit for purposes of confirming that emissions testing is conducted within 90-100 percent of the emissions unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate limits and to aid in determining future rule applicability.}

**To:** Permitted Capacity.

Combustion Turbine. The maximum heat input to the Combustion Turbine (CT) shall not exceed:

- a) 1,710 MMBtu/hr (LHV) at 27°F and at base load for natural gas.
- b) 1,849.9 MMBtu/hr (LHV) at 27°F and at base load for distillate fuel oil.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 40 CFR 60.332(b); PSD-FL-190; and, 1050223-001-AC].

{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.}

{Permitting note: The heat input is dependent upon the ambient temperature in accordance with the manufacturer's curves.}

**Comment # 7:** Page 8. Condition A.6.a. The description of the distillate fuel should be changed from "New" to "distillate fuel oil." This would be consistent with the terminology in the PSD/BACT permit that did not characterize the distillate oil as either "new", "No. 2" or "low sulfur." The latter comment applies to Condition A.6.b. Also, the third and fourth sentences of Condition A.6.a should be deleted: as stated above, the HRSG does not contain a duct burner, and the pre-construction requirements are redundant with Appendix TV-1.

**Response:** The Department acknowledges the comment. Since the permittee can not burn used oil and in order to be consistent with previous permits, the description will be changed to "distillate fuel oil". However, the pre-construction requirements are applicable requirements and will not be changed.

**Comment # 8:** All citations to the BACT as authority for a permit condition should be deleted because the BACT is simply the basis for the PSD permit. The PSD permit is appropriately listed, and is sufficient authority.

**Response:** The Department acknowledges the comment. The BACT Determination for this permit did appear in permit PSD-190, therefore citations using BACT can be deleted and the PSD permit alone will be cited. The permitting note in the Emission Limitations and Standards section will be changed

**From:** {Permitting Note: The following emission rates are based on 27°F at base load. For NO<sub>x</sub> and SO<sub>2</sub>, meeting the BACT limits assures compliance with the NSPS limits.}

**To:** {Permitting Note: The following emission rates as established by BACT in PSD-FL-190, are based on 27°F at base load. For NO<sub>x</sub> and SO<sub>2</sub>, meeting the BACT limits assures compliance with the NSPS limits.}

**Comment # 9:** Pages 9-11. Conditions A.12, A.15, A.19, A.22, A.25, and A.28 should be deleted because the HRSG does not contain a duct burner.

**Response:** The Department acknowledges the comment. All references to the duct burner will be removed and the remaining conditions will be re-numbered.

**Comment # 10:** Page 10. Condition A.20. The phrase "at full load conditions" should be added to this condition as was done in Condition A.21. This terminology is consistent with the PSD permit conditions.

**Response:** The Department disagrees with the comment. This language would not be consistent with the PSD permit. (See Table PSD-FL-190)

**Comment # 11:** Pages 10 and 11. In the Title V application, FPC requested that the Conditions for sulfuric acid mist, listed in Conditions A.26., A.27., and A.28, be deleted from the Title V Permit. These conditions were added to the original PSD Permit for the Tiger Bay Cogeneration Facility, as was common practice for other similar facilities at the time of permitting. These conditions are currently obsolete and no longer included in PSD permits for combustion turbines firing natural gas and distillate oil.

**Response:** The Department disagrees with the comment. These are applicable regulations that were established by the PSD permit and can not be removed by the title V permit.

**Comment # 12:** Page 11. In the Title V application, FPC requested that the conditions for mercury, arsenic, beryllium and lead, listed in Conditions A.31 through A.34, be deleted from the Title V Permit. These conditions were added to the original PSD Permit for the Tiger Bay Cogeneration Facility, as was common practice for other similar facilities at the time of permitting. These conditions are currently obsolete and no longer included in PSD permits for combustion turbines firing natural gas and distillate oil. In addition, arsenic and beryllium have been deleted from the list of PSD Significant Emission Rates, by the Department. This request is consistent with Department guidance (DARM-PER/GEN-18).

**Response:** The Department disagrees with the comment. These are applicable regulations that were established by the PSD permit and can not be removed by the title V permit.

**Comment # 13:** Page 11. Condition A.35. In accordance with the attached start-up curve, FPC requests that this unit be specifically authorized to have excess emissions for 3 hours (rather than 2 hours) in any 24-hour period, unless specifically authorized by the Department for longer duration. Also, the pertinent excess emission provisions of 40 CFR Part 60 should be included in this section of the permit, i.e., §§ 60.8(c), 60.11(c), and 60.43c(d).

**Response:** Excess emissions during startup are limited by rule to two hours in any 24-hour period, unless specifically authorized by the Department for a longer duration. Under NSPS regulations, excess emissions due to startup are allowed, as long as best operational practices are followed and periods of excess emissions are kept to a minimum. The Department feels that the Proposed Title V permit is not the proper vehicle for relaxing the allowable excess emissions limitations. As an alternative, we are agreeable to providing space in the Title V permit for a written agreement between Tiger Bay and the Department's compliance office that outlines a startup protocol that minimizes excess emissions while following "best operational practices". Once this protocol is established and properly signed by both parties, it will be added to the Title V permit under the reserved heading of Appendix PSS-1, Protocol for Startup and Shutdown. Proper references will be added to the Proposed permit at the appropriate places. To help clarify the potential deviation from the allowable excess emissions conditions, condition A.35. is changed:

**From:**

**A.35.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit 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.]

**To:**

**A.35.** Excess emissions resulting from startup, shutdown, or malfunction of any emissions unit 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. See Appendix PSS-1, Protocol for Start-up and Shutdown.

{Permitting Note: Once a written agreement between the Permittee and the Department's Southwest District office has been acquired approving a "Protocol for Start-up and Shutdown", the protocol is automatically incorporated by reference and is a part of the permit. The protocol shall be used where applicable and where there is/are conflict(s) with the rule.}

Also, the requested excess emissions provisions of 40 CFR 60 are not appropriate since the allowable emissions in this permit were established by BACT, rather than by NSPS. Appropriate excess emissions provisions are already included in the Title V permit. For consistency with other Title V permits, the following permitting note will be added at the beginning of the excess emissions section:

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

**Comment # 14:** Page 12. Condition A.39. This Condition is identical with Condition A.37. and therefore should be deleted.

**Response:** The Department agrees with this comment. The conditions are identical, therefore, condition A.37. will be deleted.

**Comment # 15:** Page 12. Condition A.41. This condition should be replaced with the Custom Fuel Monitoring Schedule issued by the Department and dated December 2, 1994 (attached).

**Response:** The Department acknowledges the comment. The permittee's approved Custom Fuel Monitoring Schedule will be added to the permit. (See new Condition A.35.)

**Comment # 16:** Page 13. Condition A.43. The reference to 40 CFR Part 75 on line 5 should be put into context with Part 60 and the word "or" should be added. The following is suggested: "(July 2, 1992) or 40 CFR Part 75, whichever is more stringent." Also, the last sentence of this Condition should be deleted because it does not appear in the PSD permit.

**Response:** It appears that a typing error was made in Condition A.43. The suggested change will be made. The last sentence is an applicable regulation and will remain in the permit.

**Comment # 17:** Page 14. Condition A.46. The references to annual testing for VOCs and H<sub>2</sub>SO<sub>4</sub> should be deleted. A sentence should be added to this Condition stating that "VOC testing is only required if the CO test indicates an exceedance of the CO standard. See Condition A.55." In accordance with Comment No. 11, there should be no need for annual H<sub>2</sub>SO<sub>4</sub> testing. Also, as stated above, the Permitting Note should be revised to reflect the deletion of the limits for mercury, arsenic, beryllium, and lead.

**Response:** The Department acknowledges the comment. Specific Condition A.55. states that VOC testing is required only if the CO test indicates an exceedance of the CO standard. In order to change the requirements for testing for H<sub>2</sub>SO<sub>4</sub>, mercury, arsenic, beryllium and lead the PSD permit would have to be modified. Condition A.46. will be changed, based on this comment

As a result of this comment **Condition # A.46.** is hereby changed:

**From:** A.46. Annual Tests Required. For this emissions unit, annual testing must be conducted for NO<sub>x</sub>, SO<sub>2</sub>, CO, VOC, H<sub>2</sub>SO<sub>4</sub> and VE, in accordance with the requirements listed below. PM testing is only required if the VE test indicates an exceedance of the standards.  
[1050223-006-AC; AC53-214903; PSD-FL-190; and, BACT.]

**To:** A.40. Annual Tests Required. For this emissions unit, annual testing must be conducted for NO<sub>x</sub>, SO<sub>2</sub>, CO, H<sub>2</sub>SO<sub>4</sub> and VE, in accordance with the requirements listed below. PM testing is only required if the VE test indicates an exceedance of the standards. VOC testing is only required if the CO test indicates an exceedance of the standard.  
[1050223-006-AC; AC53-214903; PSD-FL-190]

**Comment # 18:** Page 14. Condition A.47. Section 60.335(a) applies only to fuel oil, since the nitrogen in gas is not fuel bound as provided in Section 60.332(a)(3).

**Response:** The Department does not agree with this comment. This condition is an applicable regulation. No change will be made.



**Comment # 19:** Page 14. Condition A.48. This condition was deleted from the PSD permit by the Department letter dated April 23, 1996, which changed several permit conditions.

**Response:** The Department acknowledges this comment. This condition was deleted from the PSD permit by the letter dated April 23, 1996. However, it is still an applicable regulation for the Title V permit. Compliance with this condition must be met if the annual test is not performed at 95% - 100% of rated capacity. For clarity condition A.48. will be moved to follow current condition A.62. and will be qualified as follows:

As a result of this comment **Condition # A.48.** is hereby changed:

**From:** Nitrogen Oxides. The test methods for nitrogen oxides emissions shall be EPA Method 20. During performance tests, to determine compliance with the NSPS NO<sub>x</sub> standard, measured NO<sub>x</sub> emissions at 15 percent oxygen will be adjusted to ISO ambient atmospheric conditions by the following correction factor:

$$NO_x = (NO_{xO}) (P_r/P_o)^{0.5} e^{19(H_o-0.00633)} (288^\circ K/T_a)^{1.53}$$

where:

NO<sub>x</sub> = emission rate of NO<sub>x</sub> at 15 percent O<sub>2</sub> and ISO standard ambient conditions, volume percent.

NO<sub>xO</sub> = observed NO<sub>x</sub> concentration, ppm by volume.

P<sub>r</sub> = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.

P<sub>o</sub> = observed combustor inlet absolute pressure at test, mm Hg.

H<sub>o</sub> = observed humidity of ambient air, g H<sub>2</sub>O/g air.

e = transcendental constant, 2.718.

T<sub>a</sub> = ambient temperature, °K.

[40 CFR 60.335(c)(1); AC53-214903; PSD-FL-190; and, BACT.]

**To:** Nitrogen Oxides. The test methods for nitrogen oxides emissions shall be EPA Method 20. During performance tests, to determine compliance with the NSPS NO<sub>x</sub> standard, measured NO<sub>x</sub> emissions at 15 percent oxygen will be adjusted to ISO ambient atmospheric conditions by the following correction factor:

$$NO_x = (NO_{xO}) (P_r/P_o)^{0.5} e^{19(H_o-0.00633)} (288^\circ K/T_a)^{1.53}$$

where:

NO<sub>x</sub> = emission rate of NO<sub>x</sub> at 15 percent O<sub>2</sub> and ISO standard ambient conditions, volume percent.

NO<sub>xO</sub> = observed NO<sub>x</sub> concentration, ppm by volume.

P<sub>r</sub> = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.

P<sub>o</sub> = observed combustor inlet absolute pressure at test, mm Hg.

H<sub>o</sub> = observed humidity of ambient air, g H<sub>2</sub>O/g air.

$e$  = transcendental constant, 2.718.

$T_a$  = ambient temperature, °K.

[40 CFR 60.335(c)(1); AC53-214903; PSD-FL-190]

{Permitting Note: If testing is performed at 95% - 100% of rated capacity then the requirements of this specific condition are not applicable.}

**Comment # 20:** Conditions A.44, A.45, A.49, A.50, A.51, A.52, A.57, A.58, A.59, and A.67 through A.72 should be deleted. Other Title V permits for similar facilities do not have these conditions and they are either misapplied to this unit or simply cause confusion. For example, Condition A.44 is not appropriate because the only CEM on this unit is for  $\text{NO}_x$  and Method 20 (a stack test method) is the compliance determination method pursuant to Condition A.48. Also, the permit should not reference 40 CFR 60.335(c)(2) in Condition A.49 as clarified by DEP guidance (DARM-EM-05).

**Response:** The Department disagrees with most of this comment. These conditions are applicable regulations, with the exception of condition A.49. If compliance is not demonstrated at 95% - 100% of rated capacity, new curves must be established pursuant to this condition. It will also be moved and qualified as described in response 19.

As a result of this comment **Condition # A.49.** is hereby changed:

**From:** The monitoring device of 40 CFR 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the permitted  $\text{NO}_x$  standard at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.  
[40 CFR 60.335(c)(2)]

**To:** The monitoring device of 40 CFR 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the permitted  $\text{NO}_x$  standard at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.

{Permitting Note: If testing is performed at 95% - 100% of rated capacity then the requirements of this specific condition are not applicable.}

**Comment # 21:** Page 15. Condition A.53. The references to the other permit conditions should be revised as follows: "A.13, A.14, and A.16; and A.26 - A.27."

**Comment # 22:** Page 15. Condition A.54. The reference to the other permit conditions should be revised as follows: "A.20 and A.21."

**Comment # 23:** Page 16. Condition A.55. The reference to the other permit conditions should be revised as follows: "A.23 and A.24 . . . A.20 and A.21."

**Response:** The Department acknowledges the comments. Since the duct burner references are being removed, specific condition cross-references will be changed.

**Comment # 24:** Page 16. Condition A.59. The reference to PSD-FL-014 appears incorrect.

**Response:** The Department agrees. PSD permit PSD-FL-190 should have been cited. This condition is also a quote from 40 CFR 60.

**Comment # 25:** Page 17. Condition A.62. This Condition should reference the manufacturer's curve for heat input vs. inlet temperature.

**Response:** The Department agrees. Condition A.62. will be changed as follows:

**From:** Operating Rate During Testing. Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 95 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable 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 105 percent of the test load until a new test is conducted. 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.  
[Rules 62-297.310(2) & (2)(a), F.A.C.]

**To:** Operating Rate During Testing. Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 95 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable 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 105 percent of the test load until a new test is conducted. 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. The turbine manufacturer's capacity vs. temperature (ambient) curve shall be included with the compliance test results.  
[Rules 62-297.310(2) & (2)(a), F.A.C., PSD-FL-190]

**Comment # 26:** Page 18. Condition A.65. Paragraph (a)4. is redundant to Condition A.46., and therefore should be deleted.

**Response:** The Department disagrees. These conditions are quotes of rules. These conditions are in the permit for permit consistency. No change will be made.

**Comment # 27:** Page 19. Condition A.66. There does not appear to be any basis for this Condition and therefore FPC requests that it be deleted.

**Response:** The Department disagrees. Conditions like this are required by Rule 62-213.440, F.A.C. No change will be made.

**Comment # 28:** Page 23. Condition A.76. This Condition is obsolete and duplicative and therefore should be deleted. Compliance with 40 CFR Part 75 should be sufficient.

**Response:** The Department agrees with the comment. Conditions A.75. and A.76. will be deleted from the permit.

**Comment # 29:** Page 24. Description. Second Paragraph. FPC requests the following revision of the first sentence for clarification: "This unit is ~~regulated under~~ exempt from Rule 62-296.700, F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter ~~Exemptions pursuant to Rule 62-296.700(2), F.A.C.~~" Also, as listed in the application, the stack flow should be 5,000 acfm and not 5,050 acfm.

**Response:** The Department agrees that this source is exempt from Particulate Matter RACT based on limitations in AC53-230744. RACT references will be removed, including the permitting note following condition B.5.

**Comment # 30:** Page 25. Condition B.4. The second sentence of this condition should be deleted, since the air construction permit did not include such wording.

**Response:** The Department acknowledges the comment. However, without a log, any claims of less than continuous operation on the AOR would be difficult to substantiate. The Department wishes to leave this requirement in the permit.

**Comment # 31:** Page 25. Condition B.5. For clarification, FPC requests that this Condition specify the compliance method to be used, assuming the provisions of Condition B.6 are met.

**Response:** The Department acknowledges the comment. Method 5 will be specified as the compliance method, in a new condition under test methods and procedures. Based on this comment the following condition is added:

**B.10. Particulate Matter.** EPA Method 5 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the particulate matter standard in specific condition B.5. [Rule 62-297.401, F.A.C.; 40 CFR 60, Appendix A; and, AC53-230744.]

**Comment # 32:** Page 25. Condition B.6. This Condition states that compliance determinations, if required, shall be "demonstrated by the test method specified in the applicable rule." FPC is uncertain what the "applicable rule" is, and therefore requests that a specific citation be included.

**Response:** The Department acknowledges the comment. A cross-reference to the new condition stated in comment 31 will be added.

**Comment # 33:** Page 29. Condition B.15. FPC requests that paragraphs (a)4.b. and c. be deleted and replaced with a simple reference to particulate matter, because this unit is only subject to limits on visible emissions and particulate matter.

**Response:** The Department chooses to leave these paragraphs since this condition is a quote of the rule and was included in the permit for permit consistency. It is possible that the referenced paragraphs could be applicable in the future.

**Comment # 34:** Page 33. Condition A.4. Consistent with other DEP Title V permits, FPC requests that this Condition be moved to the facility-wide section of the permit.

**Response:** The Department disagrees. This is an acid rain condition and appropriately belongs here. No change will be made.

**Note:** The Department agrees that some Title V permits may have this condition in the facility-wide section of the permit. In retrospect, we feel that it is more appropriate to be with the rest of the acid rain requirements and will likely be moved to the acid rain sections of those permits at the next opportunity.

**Comment # 35:** Page 35. Item 17. The chemical tank listed is 550 lb., not 5,500 lb. indicated in the condition. There are several similar tanks associated with the Cooling Tower Area that were not listed. The tanks were pH guard (500 gal., 2,925 lb.) and Conquor 3583 (2 @ 500 lb.). Several chlorine tanks were also identified in this area, as well as gas cylinders (CO<sub>2</sub> and H<sub>2</sub>).

**Response:** The Department acknowledges the comment. This appears to have been a typing error and will be changed. The other tanks listed in your comment will also be added, except for the chlorine tanks which have been removed.

**Comment # 36:** Page 35. Items 19 and 20. The natural gas knockout tank was not listed with these items. This insignificant emission unit had a vent.

**Response:** The Department acknowledges the comment and will add this unit to the list of insignificant emissions units.

**B. Document(s) on file with the permitting authority:**

- Letter received January 22, 1999, from Mr. Scott H. Osbourn, Florida Power Corporation.
- Letter received April 21, 199, from Mr. J. Michael Kennedy, Florida Power Corporation.
- Fax received April 22, 199, from Mr. J. Michael Kennedy, Florida Power Corporation.
- E-mail received June 4, 199, from Mr. J. Michael Kennedy, Florida Power Corporation.
- E-mail received June 7, 199, from Mr. J. Michael Kennedy, Florida Power Corporation.

**III. Conclusion.**

The permitting authority hereby issues the PROPOSED Permit No. 1050023-002-AV, with the changes noted above.]

Because of the number of changes to the DRAFT, a copy of the PROPOSED permit has been printed for the applicant.

# STATEMENT OF BASIS

Florida Power Corporation  
Tiger Bay Cogeneration Facility  
**Facility ID No.:** 1050223  
Polk County

Initial Title V Air Operation Permit  
**PROPOSED Permit No.:** 1050223-002-AV

This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to 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 a single combustion turbine (CT) that exhausts through a non-fired heat recovery steam generator (HRSG). The facility is permitted to combust natural gas as the primary fuel and distillate fuel oil as back-up fuel. However, the fuel oil capability has yet to be installed. The facility also operates a zero liquid discharge (ZLD) system which provides treatment of process wastewater and exhausts through a baghouse for the control of particulate matter. The total combined capacity of the facility is 269.5 megawatts. A nominal 184 megawatts are provided by the CT. In addition a nominal 85.5 megawatts are provided by the HRSG. This facility is regulated under Acid Rain Phase II.

Emissions unit number -001 is a co-generation facility consisting of the CT and the HRSG. The CT is permitted to combust natural gas (primary fuel) and fuel oil (back-up), was manufactured by General Electric (model number MS70001FA), produces a nominal 184 megawatts (MW) and exhausts through the HRSG. The HRSG is made by General Electric (model number is PG7221FA), is permitted to combust natural gas and produces steam to drive a separate generator with a nominal rating of 85.5 MW. The CT is regulated under 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines. The HRSG is regulated under 40 CFR 60, Subpart Dc, Standards of Performance for Industrial, Commercial and Institutional Steam Generating Units. The facility began commercial operation on July 20, 1994. Emissions from the CT are controlled by the use of dry low-NO<sub>x</sub> (DLN 2.6) burners when firing natural gas and will be controlled by water injection at such time that the option to fire fuel oil is implemented. NO<sub>x</sub> emissions from the CT are currently limited to 25 ppm. By December 31, 1999, NO<sub>x</sub> emissions are required to be at or below 15 ppm. If unable to meet this limitation deadline through advanced combustion technology, the facility must install SCR and meet a NO<sub>x</sub> limit of 10 ppm. Emissions from the HRSG are uncontrolled. In conjunction with EPA Region 4, the issuance of permit PSD-FL-190 established allowable emission limitations for this emissions unit for Mercury, Arsenic, Beryllium and Lead, with only an initial compliance test requirement; and, although the emission limitations remain and have been reflected in the Title V permit, there is no requirement for any subsequent periodic compliance testing. Emissions unit -001 is subject to the requirements of Phase II Acid Rain.

Emissions unit number -002 is a zero liquid discharge (ZLD) system made by Unitech-Graver. This emissions unit has a maximum heat input rate of 3.07 MMBtu/hour and is fired with natural gas. This equipment is used to process the concentrated wastewater brine from two falling-film evaporators. The effluent from the evaporators is pumped to the spray dryer module, where it is atomized into a spray and contacted by heated air to evaporate the liquid, thus resulting in the formation of dry particles from the remaining solids. The exhaust gas stream from the dryer is sent through a baghouse dust collector where the particulate matter (PM) is removed with a removal efficiency of at least 99.9% (based on vendor's guarantee). The emissions unit is regulated under Rule 62-296.700(2), F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter - Exemptions. The permittee has accepted a federally enforceable limit for PM emissions from this emissions unit in order to avoid subjection to the RACT requirements. This emissions unit began commercial operation on August 1, 1994.

The heat input limitations for the CT have been placed in the permit to identify the capacity of each emissions unit for the purposes of confirming that emissions testing is conducted within 95 to 100 percent of the emissions unit's rated capacity (or to limit future operation to 105 percent of the test load), to establish appropriate emissions limits and to aid in determining future rule applicability. A note below the permitted capacity condition clarifies this. 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 emissions unit was tested. Rule 62-297.310(5), F.A.C., included in the permit, requires measurement of process variables for emissions 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.

The heat input limitations for the ZLD have been placed in the permit to identify the capacity of each emissions unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the emissions unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emissions limits and to aid in determining future rule applicability. A note below the permitted capacity condition clarifies this. 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 emissions unit was tested. Rule 62-297.310(5), F.A.C., included in the permit, requires measurement of process variables for emissions 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.

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

Based on the initial Title V permit application received June 14, 1996, this facility is a major source of hazardous air pollutants (HAPs).

Florida Power Corporation  
Tiger Bay Cogeneration Facility  
**Facility ID No.:** 1050223  
Polk County

**Title V Air Operation Permit**  
**Proposed Permit No.:** 1050223-002-AV

**Project Description:**  
**Initial Title V Permit**

**Permitting Authority**

State of Florida  
Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation  
Title V Section

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

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



## Title V Air Operation Permit

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Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

**Permittee:**  
Florida Power Corporation  
P.O. Box 14042  
MAC BB1A  
St. Petersburg, Florida 33733

**PROPOSED Permit No.:** 1050223-002-AV  
**Facility ID No.:** 1050223  
**SIC Nos.:** 49, 4911  
**Project:** Initial Title V Permit

This permit is for the operation of the Tiger Bay Cogeneration Facility. This facility is located at 3219 State Road 630 East, Ft. Meade, Polk County; UTM Coordinates: Zone 17, 416.2 km East and 3069.22 km North; Latitude: 24° 44' 47" North and Longitude: 81° 51' 0" West.

**STATEMENT OF BASIS:** This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to 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 I-1, List of Insignificant Emissions Units and/or Activities  
Phase II Acid Rain Permit Application/Compliance Plan received February 18, 1998  
Appendix PSS-1, Protocol for Start-up and Shutdown  
Appendix SS-1, Stack Sampling Facilities (version dated 10/7/96)  
Appendix TV-1, Title V Conditions (version dated 12/2/97)  
Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance (40 CFR 60, July, 1996)

**Effective Date:** January 1, 2000  
**Renewal Application Due Date:** July 5, 2004  
**Expiration Date:** December 31, 2004

---

Howard L. Rhodes, Director  
Division of Air Resources  
Management

HLR/sms/rp

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

### **Subsection A. Facility Description.**

This facility consists of a single combustion turbine (CT) that exhausts through a heat recovery steam generator (HRSG). The facility is permitted to combust natural gas as the primary fuel and distillate fuel oil as back-up fuel. However, the fuel oil capability has yet to be installed. The facility also operates a zero liquid discharge (ZLD) system which provides treatment of process wastewater and exhausts through a baghouse for the control of particulate matter. The total combined capacity of the facility is 269.5 megawatts. A nominal 184 megawatts are provided by the combustion turbine. In addition a nominal 85.5 megawatts are provided by a steam generator. Emissions unit -001 is regulated under Acid Rain Phase II.

Also included in this permit are miscellaneous insignificant emissions units and/or activities. One of the insignificant emissions units is an auxiliary natural gas-fired steam boiler. The maximum heat input of the auxiliary boiler is 2.8 MMBtu/hr.

Based on the initial Title V permit application received June 14, 1996, this facility is not a major source of hazardous air pollutants (HAPs).

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

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

#### Regulated Emissions Units:

#### **E.U. ID**

#### **No.**

#### **Brief Description**

|      |  |
|------|--|
| -001 | Combustion Turbine and Heat Recovery Steam Generator   |
| -002 | Zero Liquid Discharge System<br>(Wastewater Treatment System Spray Dryer Unit With Baghouse) |

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

**Subsection C. Relevant Documents.**

The following documents are part of this permit:

Appendix I-1, List of Insignificant Emissions Units and/or Activities  
Phase II Acid Rain Permit Application/Compliance Plan received February 18, 1998  
Appendix PSS-1, Protocol for Start-up and Shutdown  
Appendix SS-1, Stack Sampling Facilities (version dated 10/7/96)  
Appendix TV-1, Title V Conditions (version dated 12/2/97)  
Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System  
Performance (40 CFR 60, July, 1996)

{Permitting Note: 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 informational purposes only:

Appendix H-1, Permit History / ID Number Changes  
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers (version dated 2/5/97)  
Table 1-1, Summary of Air Pollutant Standards and Terms  
Table 2-1, Summary of Compliance Requirements

These documents are on file with the permitting authority:

Initial Title V Permit Application Received June 14, 1996  
Permit Number AC53-214903/PSD-FL-190 and BACT, Issued May 17, 1993  
Permit Number 1050223-001-AC, Issued April 29, 1996  
Permit Number 1050223-003-AC, Issued January 8, 1997  
Permit Number 1050223-005-AC, Issued September 9, 1997  
Permit Number 1050223-006-AC, Issued November 19, 1997  
Permit Number 1050223-007-AC, Issued January 14, 1998

## Section II. Facility-wide Conditions.

### The following conditions apply facility-wide:

1. Appendix TV-1, Title V Conditions, is a part of this permit.

{Permitting note: Appendix TV-1, Title V Conditions is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate. If desired, a copy of Appendix TV-1, Title V Conditions can be downloaded from the Division of Air Resources Management's Internet Web site located at either of the following addresses:

"<http://www2.dep.state.fl.us/air/enhanced/permitting/TitleVperm.htm>"

"<http://www2.dep.state.fl.us/air/litesite/TitleVperm.htm>".}

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. Prevention of Accidental Releases (Section 112(r) of CAA). If required by 40 CFR 68, the permittee shall submit to the implementing agency:

- a. a risk management plan (RMP) when, and if, such requirement becomes applicable, and
- b. certification forms and/or RMPs according to the promulgated rule schedule.

[40 CFR 68]

4. 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.]

5. 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.

{Permitting Note: No vapor emission control devices or systems are deemed necessary nor ordered by the Department as of the issuance date of this permit.}

[Rule 62-296.320(1)(a), F.A.C.]

6. 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.]

**7. Not federally enforceable.** Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- a. Maintenance of paved roads as necessary.
- b. Regular mowing of grass and care of vegetation.
- c. Limiting access to plant property by unnecessary vehicular traffic.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by applicant in initial Title V permit application received June 14, 1996.]

{Permitting Note: Condition No. 8 presents the reasonable precautions to be implemented in accordance with Rule 62-296.320(4)(c)2, F.A.C., in lieu of the requirements of Condition No. 58 of Appendix TV-1.}

**8.** 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.]

**9.** The Department's Southwest District Office (Tampa) telephone number for reporting problems, malfunctions or exceedances under this permit is 813/744-6100, day or night, and for emergencies involving a significant threat to human health or the environment is 850/413-9911. The Department's Southwest District Office (Tampa) telephone number for routine business, including compliance test notifications, is 813/744-6100 during normal working hours.

**10.** The permittee shall submit all compliance related notifications and reports required of this permit (other than Acid Rain Program Information) 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

Acid Rain Program Information shall be submitted, as necessary, to:

Department of Environmental Protection  
2600 Blair Stone Road  
Mail Station #5510  
Tallahassee, Florida 32399-2400  
Telephone: 850/488-6140  
Fax: 850/922-6979

Florida Power Corporation  
Tiger Bay Cogeneration Facility

**PROPOSED** Permit No.: 1050223-002-AV  
Facility ID No.: 1050223

11. Any reports, data, notifications, certifications, and requests (other than Acid Rain Program Information) 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  
Telephone: 404/562-9155  
Fax: 404/562-9164

Acid Rain Program Information should be sent to:

United States Environmental Protection Agency, Region 4  
Air, Pesticides & Toxics Management Division  
Acid Rain Section  
61 Forsyth Street  
Atlanta, Georgia 30303  
Telephone: 404/562-9102  
Fax: 404/562-9095

### Section III. Emissions Unit(s).

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

##### E.U. ID No. Brief Description

-001 Combustion Turbine and Heat Recovery Steam Generator

This emissions unit is a co-generation facility consisting of a combustion turbine (CT) and a heat recovery steam generator (HRSG). The CT is permitted to combust natural gas (primary fuel) and fuel oil (back-up), was manufactured by General Electric (model number MS7221 FA), produces a nominal 184 megawatts (MW) and exhausts through the HRSG.

{Permitting notes: The CT is regulated under 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines. The facility began commercial operation on July 20, 1994. Stack height = 180 feet, exit diameter = 19.0 feet, exit temperature = 205 °F, actual volumetric flow rate = 1,072,001 acfm. The actual volumetric flow rate may change as a result of the load and the turbine inlet temperature. Emissions from the CT are controlled by the use of dry low-NO<sub>x</sub> (DLN 2.6) burners when firing natural gas and by water injection while firing fuel oil.}

##### General

**A.1. Definitions.** For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee.  
[40 CFR 60.2; Rule 62-204.800(7)(a), F.A.C.]

**A.2. 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.3. Modifications.** Except as provided under 40 CFR 60.14(e) and (f), any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 11 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.  
[40 CFR 60.14(a)]

{Permitting Note: In addition to the requirements listed below, these emissions units are also subject to the standards and requirements contained in the Acid Rain Part of this permit (see Section IV).}



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

#### **A.4. Permitted Capacity.**

**Combustion Turbine.** The maximum heat input to the Combustion Turbine (CT) shall not exceed:

- a) 1,710 MMBtu/hr (LHV) at 27°F and at base load for natural gas.
- b) 1,849.9 MMBtu/hr (LHV) at 27°F and at base load for distillate fuel oil.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 40 CFR 60.332(b); PSD-FL-190; and, 1050223-001-AC].

{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 95 to 100 percent of the unit's rated capacity (or to limit future operation to 105 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.}

{Permitting note: The heat input is dependent upon the ambient temperature in accordance with the manufacturer's curves.}

#### **A.5. Emissions Unit Operating Rate Limitation After Testing.** See specific condition **A.54.**

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

#### **A.6. Methods of Operation.**

- a. Natural gas shall be the primary fuel fired in the CT. No. 2 distillate fuel oil may be fired as "back-up" fuel, only. The burning of other fuels requires review, public notice, and approval through the pre-construction process (Chapters 62-210 and 62-212, F.A.C.).
- b. Distillate fuel oil can be used as a backup fuel in the CT up to 3,742,327 gallons per calendar year.
- c. Water injection shall be used when firing No. 2 fuel oil, for control of NO<sub>x</sub> emissions.

[Rule 62-213.410, F.A.C.; AC53-214903; PSD-FL-190]

#### **A.7. Hours of Operation.** This emissions unit may operate continuously, i.e., 8760 hours per year.

[Rule 62-210.200(PTE), F.A.C.; AC53-214903; PSD-FL-190]

### **Emission Limitations and Standards**

{Permitting Note: The attached 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: The following emission rates as established by BACT in PSD-FL-190, are based on 27°F at base load. For NO<sub>x</sub> and SO<sub>2</sub>, meeting the BACT limits assures compliance with the NSPS limits.}

**A.8. Nitrogen Oxides.** Nitrogen oxides emissions from the CT shall not exceed 42 ppmvd at 15 percent oxygen, 326 pounds per hour (lbs/hr) nor 48.9 tons per year (TPY), while burning distillate fuel oil.

[AC53-214903; PSD-FL-190]

**A.9. Nitrogen Oxides.** Nitrogen oxides emissions from the CT shall not exceed 25 ppmvd at 15 percent oxygen, 161.9 lbs/hr nor 709.1 TPY, while burning natural gas.

[AC53-214903; PSD-FL-190]

**A.10. Nitrogen Oxides.** Nitrogen oxides emissions from the CT, after December 31, 1999, shall not exceed 15 ppmvd at 15 percent oxygen, 97.2 lbs/hr nor 425.7 TPY, while burning natural gas. This limit will be achieved by using appropriate combustion technology improvements or SCR. If SCR is chosen as the control technology, the maximum nitrogen oxides emission limits shall not exceed 10 ppmvd at 15 percent oxygen, 64.8 lbs/hr, nor 283.8 TPY.

[1050223-007-AC; AC53-214903; PSD-FL-190]

**A.11. Nitrogen Oxides.** Nitrogen oxides from the CT, while firing distillate fuel oil, shall be controlled by water injection. The minimum water-to-fuel ratio that must be met will be established and incorporated into this permit condition at such time that fuel oil is fired and compliance is demonstrated. **(Although currently allowed to fire distillate fuel oil, the fuel oil storage tanks and piping have not yet been installed at this facility.)**

[40 CFR 60.334(a); AC53-214903; PSD-FL-190]

**A.12. Sulfur Dioxide.** Sulfur dioxide emissions from the CT shall not exceed 99.7 lbs/hr nor 15.0 TPY, while burning distillate fuel oil.

[AC53-214903; PSD-FL-190]

**A.13. Sulfur Dioxide.** Sulfur dioxide emissions from the CT shall not exceed 4.86 lbs/hr nor 21.3 TPY, while burning natural gas.

[AC53-214903; PSD-FL-190]

**A.14. Sulfur Dioxide - Sulfur Content.** The sulfur content of the fuel oil fired by the stationary gas turbine may be used to determine compliance with 40 CFR 60.333(a). Under such circumstances, the permittee shall not fire in any stationary gas turbine any fuel which contains a sulfur content in excess of 0.05 percent, by weight.

[AC53-214903; PSD-FL-190]

**A.15. Particulate Matter/PM<sub>10</sub>.** Particulate matter emissions of 10 microns or less from the CT shall not exceed 17 lbs/hr nor 2.6 TPY, while burning distillate fuel oil.

[AC53-214903; PSD-FL-190]

**A.16. Particulate Matter/PM<sub>10</sub>.** Particulate matter emissions of 10 microns or less from the CT shall not exceed 9.0 lbs/hr nor 39.4 TPY, while burning natural gas.

[AC53-214903; PSD-FL-190]

**A.17. Carbon Monoxide.** Carbon monoxide emissions from the CT shall not exceed 30 ppmvd, 98.4 lbs/hr nor 14.8 TPY, while burning distillate fuel oil.

[AC53-214903; PSD-FL-190]

**A.18. Carbon Monoxide.** Carbon monoxide emissions from the CT shall not exceed 15 ppmvd, 48.8 lbs/hr nor 213.7 TPY, while burning natural gas at full load conditions.  
[AC53-214903; PSD-FL-190]

**A.19. Volatile Organic Compounds (VOCs).** VOC emissions from the CT shall not exceed 7.5 lbs/hr nor 1.1 TPY, while burning distillate fuel oil.  
[AC53-214903; PSD-FL-190]

**A.20. Volatile Organic Compounds (VOCs).** VOC emissions from the CT shall not exceed 2.8 lbs/hr nor 12.3 TPY, while burning natural gas.  
[AC53-214903; PSD-FL-190]

**A.21. Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>).** H<sub>2</sub>SO<sub>4</sub> emissions from the CT shall not exceed 1.22 lbs/hr nor 0.183 TPY, while burning distillate fuel oil.  
[AC53-214903; PSD-FL-190]

**A.22. Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>).** H<sub>2</sub>SO<sub>4</sub> emissions from the CT shall not exceed 0.595 lbs/hr nor 2.6 TPY, while burning natural gas.  
[AC53-214903; PSD-FL-190]

**A.23. Visible Emissions.** Visible emissions shall not exceed 20 percent opacity while burning distillate fuel oil.  
[AC53-214903; PSD-FL-190]

**A.24. Visible Emissions.** Visible emissions shall not exceed 10 percent opacity while burning natural gas.  
[AC53-214903; PSD-FL-190]

**A.25. Mercury.** Mercury emissions from the CT shall not exceed  $3.0 \times 10^{-6}$  lbs/MMBtu,  $5.5 \times 10^{-3}$  lbs/hr nor  $8.32 \times 10^{-4}$  TPY, while firing distillate fuel oil.  
[AC53-214903; PSD-FL-190]

**A.26. Arsenic.** Arsenic emissions from the CT shall not exceed  $4.2 \times 10^{-6}$  lbs/MMBtu,  $7.77 \times 10^{-3}$  lbs/hr nor  $1.17 \times 10^{-3}$  TPY, while firing distillate fuel oil.  
[AC53-214903; PSD-FL-190]

**A.27. Beryllium.** Beryllium emissions from the CT shall not exceed  $2.5 \times 10^{-6}$  lbs/MMBtu,  $4.62 \times 10^{-3}$  lbs/hr nor  $6.94 \times 10^{-4}$  TPY, while firing distillate fuel oil.  
[AC53-214903; PSD-FL-190]

**A.28. Lead.** Lead emissions from the CT shall not exceed  $8.9 \times 10^{-6}$  lbs/MMBtu,  $1.65 \times 10^{-2}$  lbs/hr nor  $2.47 \times 10^{-3}$  TPY, while firing distillate fuel oil.  
[AC53-214903; PSD-FL-190]

### **Excess Emissions**

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

**A.29.** Excess emissions resulting from startup, shutdown, or malfunction of any emissions unit 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. See Appendix PSS-1, Protocol for Start-up and Shutdown.

[Rule 62-210.700(1), F.A.C.]

{Permitting Note: Once a written agreement between the Permittee and the Departments Southwest District has been acquired approving a "Protocol for Start-up and Shutdown", the protocol is automatically incorporated by reference and is a part of the permit. The protocol shall be used where applicable and where there is/are conflict(s) with the rule.}

**A.30.** 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.]

**A.31.** For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:

(1). *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 40 CFR 60.332 by the performance test required in 40 CFR 60. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load during the period of excess emissions, and the graphs or figures developed under 40 CFR 60.335(a).

[40 CFR 60.334(c)(1)]

{Permitting Note: A properly installed and maintained NO<sub>x</sub> CEMS may be used as an acceptable alternative to measure periods of excess emissions.}

### **Monitoring of Operations**

**A.32.** 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 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 operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

**A.33.** 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<sub>x</sub> 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  $\pm 5.0$  percent and shall be approved by the Administrator.

[40 CFR 60.334(a)]

**A.34.** 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) & (2)]

**A.35.** The following custom fuel monitoring schedules shall be used at this facility:

A. Natural Gas.

Pursuant to 40 CFR 60.334(b)(2), a custom fuel monitoring schedule shall be followed for the natural gas fired at this facility and shall be as follows:

1. Monitoring of fuel nitrogen content shall not be required when NG is the only fuel being fired in the turbines.

2. Sulfur Monitoring

- a. Analysis for fuel sulfur content of the NG fired at this facility 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 D1072-80, ASTM D3031-81, ASTM D3246-81, and ASTM D4084-82, as referenced in 40 CFR 60.335(b)(2).

{Permitting Note: Retention of vendor delivery receipts is an acceptable alternative in-lieu of on-site fuel testing, as long as the tests performed by the vendor meet the above conditions.}

- b. The custom fuel monitoring schedule shall become effective on the date this permit is amended. Effective the date of this custom schedule, sulfur monitoring of NG fired at the facility 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.
- c. If, after the monitoring required in item 2(b) above, or herein, the sulfur content of the NG fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333 and in this permit, sample analysis shall be conducted twice per annum. 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 or this permit, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be re-examined by the Environmental

Protection Agency. 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 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 re-examined.
4. Records of sample analysis and fuel supply pertinent to this custom fuel monitoring schedule for NG 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.

**B. Distillate Fuel Oil.**

The records of distillate fuel oil usage shall be kept by the company for a five-year period for regulatory agency inspection purposes. For sulfur dioxide, periods of excess emissions shall be reported if the distillate fuel oil being fired in the gas turbine exceeds 0.05 percent sulfur content, by weight.

[Approved and effective December 6, 1994.]

**A.36. 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.]

**Continuous Monitoring Requirements**

**A.37.** The permittee shall have installed and shall calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the nitrogen oxides emissions from this source. The continuous emissions monitoring systems must comply with the certification and quality assurance, and other applicable requirements from 40 CFR 60, Appendix B, Performance Specification 2 (July 2, 1992) or 40 CFR 75, whichever is more stringent. Periods of startup, shutdown, malfunction, and fuel switching shall be monitored, recorded, and reported as excess emissions when emission levels exceed the standards in specific conditions **A.8. – A.11.** following the format of 40 CFR 60.7 (1997 version).

[AC53-214903; PSD-FL-190]

**A.38.** For the purposes of 40 CFR 60.13, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of 40 CFR 60.13 upon promulgation of performance specifications for continuous monitoring systems under Appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis,

Appendix F of 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.

[40 CFR 60.13(a)]

{Permitting Note: The requirements for the NO<sub>x</sub> CEMS which are installed and maintained in accordance with 40 CFR 75 are at least as stringent as the requirements of 40 CFR 60, and are an acceptable alternative to this condition.}

**A.39.** All continuous monitoring systems (CMS) or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR 60 shall be used.

[40 CFR 60.13(f)]

### **Required Tests, Test Methods and Procedures**

{Permitting Note: The attached 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.40.** Annual Tests Required. For this emissions unit, annual testing must be conducted for NO<sub>x</sub>, SO<sub>2</sub>, CO, H<sub>2</sub>SO<sub>4</sub> and VE, in accordance with the requirements listed below. PM testing is only required if the VE test indicates an exceedance of the standards. VOC testing is only required if the CO test indicates an exceedance of the standard.

[1050223-006-AC; AC53-214903; PSD-FL-190]

{Permitting Note: Although emission limits have been established for Mercury, Arsenic, Beryllium and Lead, PSD-FL-190 only requires an initial compliance test. There is no requirement for subsequent periodic testing, however, under the provisions of Rule 62-297.310(7)(b), F.A.C., if the Department has reason to believe the emission limits are not being met, a special compliance test can be ordered.}

**A.41.** Nitrogen Oxides. 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 Department to determine the nitrogen content of the fuel being fired.

[40 CFR 60.335(a)]

**A.42.** Nitrogen Oxides and Sulfur Dioxide. The owner or operator shall determine compliance with the nitrogen oxides and sulfur dioxide standards in 40 CFR 60.332 and 60.333(a) as follows:

(3). EPA Method 20 (40 CFR 60, Appendix A) shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 100 ppm of nitrogen oxide and 21 percent oxygen. The NO<sub>x</sub> emissions shall be determined at each of the load conditions specified in 40 CFR 60.335(c)(2).

[40 CFR 60.335(c)(3); and, applicant request.]

**A.43.** Sulfur Dioxide - Sulfur Content. The owner or operator shall determine compliance with the sulfur content standard of 0.05 percent, by weight, as follows: ASTM D 2880-96, or the latest edition, shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-90(94)E-1, D 3031-81(86), D 4084-94, D 3246-92, or the latest edition, 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)]

{Permitting Note: Retention of vendor delivery receipts is an acceptable alternative in-lieu of on-site fuel testing, as long as the tests performed by the vendor meet the above conditions.}

**A.44. Nitrogen and Sulfur Contents.** 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.45. Sulfur Dioxide and Sulfuric Acid Mist.** EPA Method 8 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the sulfur dioxide and sulfuric acid mist standards in specific conditions **A.12. - 14., A.21. & A.22..** Compliance with the sulfur dioxide and sulfuric acid mist emission limits can also be determined by calculations based on fuel analysis using ASTM D4294 (or latest edition) for the sulfur content of liquid fuels and ASTM D3246-81 (or latest edition) for sulfur content of gaseous fuel.

[AC53-214903; PSD-FL-190]

**A.46. Carbon Monoxide (CO).** EPA Method 10 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the CO standards in specific conditions **A.17. & A.18.**

[AC53-214903; PSD-FL-190]

**A.47. Volatile Organic Carbons (VOC).** EPA Method 25A pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the VOC standards in specific conditions **A.19. & A.20.** Annual VOC testing shall not be required provided that the annual CO test demonstrates emissions below the CO limits in specific conditions **A.17. & A.18.** EPA Method 3A may be used to determine oxygen concentrations.

[1050223-006-AC; AC53-214903; PSD-FL-190]

**A.48. Visible Emissions.** EPA Method 9 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the visible emissions standard in specific conditions **A.23. & A.24.** If the annual VE test indicates non-compliance with the standards, then a test for particulate matter shall be conducted using either EPA Method 5 or EPA Method 17 or EPA Methods 201A and 202.

[Rule 62-297.401, F.A.C.; 40 CFR 60, Appendix A; and, AC53-214903; PSD-FL-190]

**A.49.** Compliance with standards in 40 CFR 60, other than opacity standards, 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.50.** 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.51.** The owner or operator shall provide, or cause to be provided, stack sampling and performance testing facilities as follows:

- (1) Sampling ports adequate for test methods applicable to such facilities.
- (2) Safe sampling platform(s).
- (3) Safe access to sampling platform(s).
- (4) Utilities for sampling and testing equipment.

[40 CFR 60.8(e)(1), (2), (3) & (4); and, PSD-FL-190]

**A.52.** Required Stack Sampling Facilities. When a mass emissions stack test is required, 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.]

**A.53.** 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.]

**A.54.** Operating Rate During Testing. Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 95 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable 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 105 percent of the test load until a new test is conducted. 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. The turbine manufacturer's capacity vs. temperature (ambient) curve shall be included with the compliance test results.

[Rules 62-297.310(2) & (2)(a), F.A.C., PSD-FL-190]

**A.55. Nitrogen Oxides.** The test methods for nitrogen oxides emissions shall be EPA Method 20. During performance tests, to determine compliance with the NSPS NO<sub>x</sub> standard, measured NO<sub>x</sub> emissions at 15 percent oxygen will be adjusted to ISO ambient atmospheric conditions by the following correction factor:

$$NO_x = (NO_{xO}) (P_r/P_o)^{0.5} e^{19(H_o-0.00633)} (288^\circ K/T_a)^{1.53}$$

where:

NO<sub>x</sub> = emission rate of NO<sub>x</sub> at 15 percent O<sub>2</sub> and ISO standard ambient conditions, volume percent.

NO<sub>xO</sub> = observed NO<sub>x</sub> concentration, ppm by volume.

P<sub>r</sub> = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.

P<sub>o</sub> = observed combustor inlet absolute pressure at test, mm Hg.

H<sub>o</sub> = observed humidity of ambient air, g H<sub>2</sub>O/g air.

e = transcendental constant, 2.718.

T<sub>a</sub> = ambient temperature, °K.

[40 CFR 60.335(c)(1)]

{Permitting Note: If testing is performed at 95% - 100% of rated capacity then the requirements of this specific condition are not applicable.}

**A.56.** The monitoring device of 40 CFR 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the permitted NO<sub>x</sub> standard at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.

{Permitting Note: If testing is performed at 95% - 100% of rated capacity then the requirements of this specific condition are not applicable.}

**A.57. 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 separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

**A.58. 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 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.
- (b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.
- (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 (see Condition B.14.).

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

**A.59. 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;
    - 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,
    - c. Each NESHAP pollutant, if there is an applicable emission 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.
- (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]

### **Recordkeeping and Reporting Requirements**

**A.60.** To determine compliance with the oil firing heat input limitation, the permittee shall maintain daily records of fuel oil consumption and hourly usage for the turbine and the average heating value for the fuel oil. Average fuel oil heating rate shall be the calendar year annual average higher heating value of #2 fuel oil purchased for the permittee's bulk fuel oil storage facility. All records shall be maintained for a minimum of five (5) years after the date of each record and shall be made available to representatives of the Department upon request.

[Rule 62-213.440, F.A.C.]

**A.61.** The owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification as follows:

- (4) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

[40 CFR 60.7(a)(4)]

**A.62.** The owner or operator subject to the provisions of 40 CFR 60 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.63.** 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 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.64.** 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)]

*{See attached Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance} (electronic file name: figure1.doc)*

**A.65.** (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). 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) & (e)(2).

[40 CFR 60.7(e)(1)]

**A.66.** The owner or operator subject to the provisions of 40 CFR 60 shall maintain a file of all measurements, including continuous monitoring system, 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; and, all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least **5 (five)** years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7(f); Rule 62-213.440(1)(b)2.b., F.A.C.]

**A.67.** 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.68. 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 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.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

**Subsection B. This section addresses the following emissions unit.**

**E.U. ID No. Brief Description**

-002 Zero Liquid Discharge System  
(Wastewater Treatment System Spray Dryer Unit w/Baghouse)

This zero liquid discharge system is a Unitech-Graver-Water model. The maximum heat input rate for this unit is 3.07 MMBtu/hour and is fired with natural gas. This equipment is used to process the concentrated wastewater brine from two falling-film evaporators. The effluent from the evaporators is pumped to the spray dryer module where it is atomized into a spray and contacted by heated air to evaporate the liquid, thus resulting in the formation of dry particles from the remaining solids. The exhaust gas stream from the dryer is sent through a baghouse dust collector where the particulate matter is removed with a removal efficiency of at least 99.9% (based on vendor's guarantee).

{Permitting notes: This unit began commercial operation on August 1, 1994. Stack height = 70 feet, exit diameter = 1.3 feet, exit temperature = 340 °F, actual volumetric flow rate = 5,050 acfm. PM emissions from this unit are controlled by a baghouse.}

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

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

**B.1. Permitted Capacity.** The maximum operation heat input rate are as follows:

| <u>Unit No.</u> | <u>MMBtu/hr Heat Input</u> | <u>Fuel Type</u> |
|-----------------|----------------------------|------------------|
| 2               | 3.07                       | Natural Gas      |

[Rules 62-4.160(2), 62-210.200(PTE); and, Applicant's request.]

{Permitting note: The heat input limitations have been placed in the permit to identify the capacity of each emissions unit for purposes of confirming that emissions testing is conducted within 90-100 percent of the emissions unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate limits and to aid in determining future rule applicability.}

**B.2. Emissions Unit Operating Rate Limitation After Testing.** See specific condition **B.11.**

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

**B.3. Methods of Operation - Fuels.** The only fuel that is allowed to be burned in this unit is natural gas.

[Rule 62-213.410, F.A.C.; and, AC53-230744.]

**B.4. Hours of Operation.** This emissions unit may operate continuously, i.e. 8760 hours/year. The permittee shall maintain an operation log available for Department inspection that documents the total hours of annual operation.

[Rule 62-210.200(PTE), F.A.C.; and, AC53-230744.]



**Emission Limitations and Standards**

{Permitting Note: The attached 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.}

**B.5. Particulate Matter.** Particulate matter emissions shall not exceed 0.021 pound per hour nor 0.092 ton per year, as measured by applicable compliance methods. (See specific condition **B.10.**)  
[Rules 62-296.700(2)(a) & (c), F.A.C.]

**B.6. Visible Emissions.** Visible emissions shall not exceed 5 percent opacity. This limitation has been accepted by the permittee in lieu of conducting an annual particulate matter compliance test. If the Department has reason to believe that the particulate weight emission standard established in specific condition **B.5.** is not being met, it shall require that compliance be demonstrated by the test method specified in the applicable rule, as defined in specific condition **B.10.**  
[Rule 62-296.620(4), F.A.C.]

**Excess Emissions**

**B.7.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit 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.]

**B.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.]

**Test Methods and Procedures**

{Permitting Note: The attached 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.}

**B.9. Visible Emissions.** EPA Method 9 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the visible emissions standard in specific condition **B.6.**  
[Rule 62-297.401, F.A.C.; 40 CFR 60, Appendix A; and, AC53-230744.]

**B.10. Particulate Matter.** EPA Method 5 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the particulate matter standard in specific condition **B.5.**  
[Rule 62-297.401, F.A.C.; 40 CFR 60, Appendix A; and, AC53-230744.]

**B.11. Operating Rate During Testing.** Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable 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 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.

[Rules 62-297.310(2) & (2)(a), F.A.C.]

**B.12. 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.]

**B.13. 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 separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

**B.14. 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:
  - 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.

TABLE 297.310-1  
CALIBRATION SCHEDULE

| <u>ITEM</u>                     | <u>MINIMUM CALIBRATION FREQUENCY</u>   | <u>REFERENCE INSTRUMENT</u>   | <u>TOLERANCE</u>   |
|---------------------------------|--|---|--|
| Liquid in glass thermometer     | Annually   | ASTM Hg in glass ref. thermometer or equivalent, or thermometric points                   | +/-2%  |
| Bimetallic thermometer          | Quarterly  | Calib. liq. in glass thermometer  | 5 degrees F  |
| Thermocouple                    | Annually   | ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer             | 5 degrees F  |
| Barometer                       | Monthly  | Hg barometer or NOAA station  | +/-1% scale  |
| Pitot Tube                      | When required or when damaged  | By construction or measurements in wind tunnel D greater than 16" and standard pitot tube | See EPA Method 2, Fig. 2-2 & 2-3   |
| Probe Nozzles                   | Before each test or when nicked, dented, or corroded   | Micrometer  | +/-0.001" mean of at least three readings<br>Max. deviation between readings .004" |
| Dry Gas Meter and Orifice Meter | 1. Full Scale:<br>When received,<br>When 5% change observed,<br>Annually<br>2. One Point:<br>Semiannually<br>3. Check after each test series | Spirometer or calibrated wet test or dry gas test meter                                   | 2%   |
|                                 |  | Comparison check  | 5%   |

(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.]

**B.15. Required Stack Sampling Facilities.** When a mass emissions stack test is required, 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.]

**B.16. 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;
  - 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,
  - c. Each NESHAP pollutant, if there is an applicable emission standard.
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.

(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]

### **Recordkeeping and Reporting Requirements**

**B.17.** 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.]

#### **B.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.
- (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 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.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

**Section IV. Acid Rain Part.**

**Operated by:** Tiger Bay Cogeneration Facility  
**ORIS Code:** 7699

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

The emissions unit listed below is regulated under Acid Rain Part, Phase II.

**E.U. ID**

| <b><u>No.</u></b> | <b><u>Description</u></b>                            |
|-------------------|--|
| -001              | Combustion Turbine and Heat Recovery Steam Generator |

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

- a. DEP Form No. 62-210.900(1)(a), dated 07/01/95.  
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

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

| <b>E.U. ID No.</b> | <b>EPA ID</b> | <b>Year</b>   | <b>2000</b> | <b>2001</b> | <b>2002</b> | <b>2003</b> | <b>2004</b> |
|--------------------|---------------|---|-------------|-------------|-------------|-------------|-------------|
| -001               | 1             | SO <sub>2</sub><br>allowances,<br>under Table<br>2 or 3 of<br>40 CFR 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.

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



**A.4.** Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3), F.A.C., shall be submitted within 60 (sixty) days after the end of the calendar year.  
{See condition No. 52., Appendix TV-1, Title V Conditions.}  
[Rule 62-214.420(11), F.A.C.]

**A.5.** 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, Fast-Track Revisions of Acid Rain Parts.  
[Rules 62-213.413 and 62-214.370(4), F.A.C.]

**A.6.** Comments, notes, and justifications: None.

## 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, are exempt from the permitting requirements of Chapters 62-210 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 Rule 62-210.300(3)(a), 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 Rule 62.210.300(3)(a), 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:

#### Insignificant Emissions Related to Offices/Shop Area

1. Non-halogenated Solvent Degreasers

#### Insignificant Emissions Related to Lube Oil Storage - Outside Area

2. Waste Oil Tank (500 gal.)
3. Turbine Oil Storage (55 gal. drums)
4. Lube Oil Storage

#### Insignificant Emissions Related to Portable Water System

5. Water Treatment (Chlorine Injection)

#### Insignificant Emissions Related to Zero Liquid Discharge (ZLD) Acid Area

6. Sulfuric Acid Tank (10,000 gal.)
7. Acid Pumps (4)

#### Insignificant Emissions Related to Fire Protection

8. Diesel Fuel Tank (200 gal.)
9. Diesel Fuel fired emergency generator Firing Less Than 16,000 Gallons Per Year Of Diesel Fuel

#### Insignificant Emissions Related to 250 KW Emergency Generator

10. Diesel Fuel Tank (200 gal.)
11. Diesel Fuel Fired Emergency Generator Firing Less Than 16,000 Gallons Per Year Of Diesel Fuel

### Appendix I-1, Continued.

#### Insignificant Emissions Related to Electrical/Control Building

12. Switch Gear Fire Protection
13. Battery Room Fire Protection
14. Control Room Fire Protection
15. Water Lab

#### Insignificant Emissions Related to ZLD Control Building

16. Water Analysis Lab

#### Insignificant Emissions Related to ZLD Area

17. Chemical Injection Skid Pumps
18. Chemical Injection Tanks (3 @ 50 gal. each)
19. Chemical EL5600 (550 lb. tank)
20. Chemical Boilergaurd (450 lb. tank)

#### Insignificant Emissions Related to Natural Gas Yard

21. Natural Gas Release Valve
22. Natural Gas Metering Station
23. Natural Gas Knockout Tank

#### Insignificant Emissions Related to ST Turbine Area

24. (2) Lube-oil Reservoirs (mist eliminators)

#### Insignificant Emissions Related to CT Turbine Area

25. Lube-oil Reservoir (mist eliminator) (700 gal)
26. Turbine/Generator Fire System
27. Natural Gas Release Valve

#### Insignificant Emissions Related to Boiler Chemical Feed Skid

28. Conquor 3583 Tank (1 @ 2755 lb.)
29. Burolock HP 06 Tank (1 @ 3200 lb.)
30. Conquor 3475 Tank (1 @ 2790 lb.)

#### Insignificant Emissions Related to Cooling Tower Area

31. pH Guard Tank (500 gal., 2,925 lb.)
32. Conquor 3583 Tank (2 @ 500 lb.)
33. Fresh Water Cooling Towers

#### Insignificant Emissions Related to Auxiliary Boiler

34. Auxiliary Boiler (2.8 MMBtu/hr, NO<sub>x</sub> emissions 2 TPY)

#### Insignificant Emissions Related to General Site

35. Brazing, Soldering and Welding - Exempt per Rule 62-210.300(3)(a)16., F.A.C.
36. Routine Maintenance
37. Non-halogenated Solvent
38. Lube Oil Storage Tank (9500 gal.) (TK-010)

Florida Power Corporation  
Tiger Bay Cogeneration Facility

PROPOSED Permit No.: 1050223-002-AV  
Facility ID No.: 1050223

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

Florida Power Corporation  
Tiger Bay Cogeneration Facility

PROPOSED Permit No.: 1050223-002-AV  
Facility ID No.: 1050223

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

| <u>E.U. ID No.</u> | <u>Description</u>  | <u>Permit No.</u>   | <u>Issue Date</u>   | <u>Expiration Date</u>         | <u>Extended Date<sup>1,2</sup></u> | <u>Revised Date(s)</u>                        |
|--------------------|---|---|---|--------------------------------|------------------------------------|---|
| -001               | Combined Cycle<br>Combustion Turbine                          | AC53-214903<br>PSD-FL-190<br>1050223-001-AC<br>1050223-003-AC<br>1050223-005-AC<br>1050223-006-AC<br>1050223-007-AC | 5/17/93<br>4/29/96<br>1/8/97<br>9/9/97<br>11/19/97<br>1/14/98 | 1/1/96                         |                                    | 4/29/96, 1/8/97, 9/9/97,<br>11/19/97, 1/14/98 |
| -002               | Wastewater Treatment<br>System Spray Dryer<br>Unit W/Baghouse | AC53-230744<br>AO53-261950  | 6/29/93<br>1/25/95  | 1/1/96<br>1/31/96 <sup>1</sup> |                                    |   |

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

From: Facility ID No.: 40TPA530223  
To: Facility ID No.: 1050223

**Notes:**

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
  - 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
- {Rule 62-213.420(1)(b)2., F.A.C., allows Title V Sources to operate under existing valid permits that were in effect at the time of application until the Title V permit becomes effective}

## **Referenced Attachments**

### **Phase II Acid Rain Application/Compliance Plan**

#### **Appendix A-1, Abbreviations, Definitions, Citations, and Identification Numbers**

#### **Appendix PSS-1, Protocol for Start-up and Shutdown**

#### **Appendix SS-1, Stack Sampling Facilities (version dated 3/25/96)**

#### **Appendix TV-1, Title V Conditions (version dated 12/2/97)**

#### **Figure 1: Summary Report- Gaseous and Opacity Excess Emission and Monitoring System Performance**

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

#### **Table 2-1, Summary of Compliance Requirements**

**Phase II Acid Rain Permit Application/Compliance Plan**



# Phase II Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is:  New  Revised

**STEP 1**  
Identify the source by plant name, State, and ORIS code from NADB

|                    |       |           |
|--------------------|-------|-----------|
| Tiger Bay Facility | FL    | 7699      |
| Plant Name         | State | ORIS Code |

**STEP 2**  
Enter the boiler ID# from NADB for each affected unit, and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e

| a          | Compliance Plan  |                 | d                                    | e   |
|------------|--|-----------------|--------------------------------------|---|
|            | b  | c               |                                      |   |
| Boiler ID# | Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1) | Repowering Plan | New Units<br>Commence Operation Date | New Units<br>Monitor Certification Deadline |
| 1          | Yes  | No              |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |
|            | Yes  |                 |                                      |   |

**STEP 3**  
Check the box if the response in column c of Step 2 is "Yes" for any unit

For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

Tiger Bay Facility

Plant Name (from Step 1)

Phase II Permit - Page 2

STEP 4

Read the standard requirements and certification, enter the name of the designated representative, and sign and date

Standard Requirements

Permit Requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
  - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  - (ii) Have an Acid Rain Permit.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR parts 74, 75, and 76.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each affected unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.5(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,



Tiger Bay Facility  
Plant Name (from Step 1)

Recordkeeping and Reporting Requirements (cont.)

- (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

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

|   |               |
|---|---------------|
| Name W. Jeffrey Pardue, C.E.P.  |               |
| Signature  | Date 12/23/07 |

**STEP 5 (optional)**  
Enter the source AIRS  
and FINDS identification  
numbers, if known

|       |
|-------|
| AIRS  |
| FINDS |

**Appendix A-1,**  
**Abbreviations, Definitions, Citations, and Identification Numbers**  
**(Version Dated 2/5/97)**

**Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers**  
**(version dated 02/05/97)**

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**Abbreviations and Acronyms:**

- °F: Degrees Fahrenheit
- BACT:** Best Available Control Technology
- CFR:** Code of Federal Regulations
- DEP:** State of Florida, Department of Environmental Protection
- DARM:** Division of Air Resource Management
- EPA:** United States Environmental Protection Agency
- F.A.C.:** Florida Administrative Code
- F.S.:** Florida Statute
- ISO:** International Standards Organization
- LAT:** Latitude
- LONG:** Longitude
- MMBtu:** million British thermal units
- MW:** Megawatt
- ORIS:** Office of Regulatory Information Systems
- SOA:** Specific Operating Agreement
- UTM:** Universal Transverse Mercator

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**Citations:**

*The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers, and ID numbers.*

Code of Federal Regulations:

*Example:* [40 CFR 60.334]

|        |        |              |                             |
|--------|--------|--------------|-----------------------------|
| Where: | 40     | reference to | Title 40                    |
|        | CFR    | reference to | Code of Federal Regulations |
|        | 60     | reference to | Part 60                     |
|        | 60.334 | reference to | Regulation 60.334           |

Florida Administrative Code (F.A.C.) Rules:

*Example:* [Rule 62-213, F.A.C.]

|        |            |              |                         |
|--------|------------|--------------|-------------------------|
| Where: | 62         | reference to | Title 62                |
|        | 62-213     | reference to | Chapter 62-213          |
|        | 62-213.205 | reference to | Rule 62-213.205, F.A.C. |

**ISO:** International Standards Organization refers to those conditions at 288 degrees K, 60 percent relative humidity, and 101.3 kilopascals pressure.

**Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers  
(version dated 02/05/97) (continued)**

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**Identification Numbers:**

Facility Identification (ID) Number:

*Example:* Facility ID No.: 1050221

*Where:*

105 = 3-digit number code identifying the facility is located in Polk County  
0221 = 4-digit number assigned by state database.

Permit Numbers:

*Example:* 1050221-002-AV, or  
1050221-001-AC

*Where:*

AC = Air Construction Permit  
AV = Air Operation Permit (Title V Source)  
105 = 3-digit number code identifying the facility is located in Polk County  
0221 = 4-digit number assigned by permit tracking database  
001 or 002 = 3-digit sequential project number assigned by permit tracking database

*Example:* PSD-FL-185  
PA95-01  
AC53-208321

*Where:*

PSD = Prevention of Significant Deterioration Permit  
PA = Power Plant Siting Act Permit  
AC = old Air Construction Permit numbering

**Appendix PSS-1, Protocol for Start-up and Shutdown**

(Appendix PSS-1, Protocol for Start-up and Shutdown To Be Incorporated at a Later Date)

**Appendix SS-1,**  
**Stack Sampling Facilities (version dated 10/7/96)**



## APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)

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Stack Sampling Facilities Provided by the Owner of an Emissions Unit. This section describes the minimum requirements for stack sampling facilities that are necessary to sample point emissions units. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. Emissions units must provide these facilities at their expense. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

(a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.

(b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.

(c) Sampling Ports.

1. All sampling ports shall have a minimum inside diameter of 3 inches.
2. The ports shall be capable of being sealed when not in use.
3. The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.
4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.
5. On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.

(d) Work Platforms.

1. Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.
2. On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.
3. On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.
4. All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

(e) Access to Work Platform.

**APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)**  
**(continued)**

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1. Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.

2. Walkways over free-fall areas shall be equipped with safety rails and toeboards.

(f) Electrical Power.

1. A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.

2. If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

(g) Sampling Equipment Support.

1. A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.

a. The bracket shall be a standard 3 inch x 3 inch x one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.

b. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.

c. The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.

2. A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.

3. When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

[Rule 62-297.310(6), F.A.C.]

**Appendix TV-1,**  
**Title V Conditions (version dated 12/2/97)**

Permitting note: Appendix TV-1, Title V Conditions is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate. If desired, a copy of Appendix TV-1, Title V Conditions can be downloaded from the Division of Air Resources Management's Internet Web site located at either of the following addresses:

“<http://www2.dep.state.fl.us/air/enhanced/permitting/TitleVperm.htm>”

“<http://www2.dep.state.fl.us/air/litesite/TitleVperm.htm>”.

## APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97)

[Note: This attachment includes "canned conditions" developed from the "Title V Core List."]

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

### Chapter 62-4, F.A.C.

1. **Not federally enforceable.** General Prohibition. Any stationary installation which will reasonably be expected to be a source of pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the Department, unless the source is exempted by Department rule. The Department may issue a permit only after it receives reasonable assurance that the installation will not cause pollution in violation of any of the provisions of Chapter 403, F.S., or the rules promulgated thereunder. A permitted installation may only be operated, maintained, constructed, expanded or modified in a manner that is consistent with the terms of the permit.

[Rule 62-4.030, Florida Administrative Code (F.A.C.); Section 403.087, Florida Statute (F.S.)]

2. **Not federally enforceable.** Procedure to Obtain Permits; Application.

(1) Any person desiring to obtain a permit from the Department shall apply on forms prescribed by the Department and shall submit such additional information as the Department by law may require.

(2) All applications and supporting documents shall be filed in quadruplicate with the Department.

(3) To ensure protection of public health, safety, and welfare, any construction, modification, or operation of an installation which may be a source of pollution shall be in accordance with sound professional engineering practices pursuant to Chapter 471, F.S. All applications for a Department permit shall be certified by a professional engineer registered in the State of Florida except when the application is for renewal of an air pollution operation permit at a minor facility as defined in Rule 62-210.200, F.A.C., or where professional engineering is not required by Chapter 471, F.S. Where required by Chapter 471 or 492, F.S., applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

(4) Processing fees for air construction permits shall be in accordance with Rule 62-4.050(4), F.A.C.

(5)(a) To be considered by the Department, each application must be accompanied by the proper processing fee. The fee shall be paid by check, payable to the Department of Environmental Protection. The fee is non-refundable except as provided in Section 120.60, F.S., and in this section.

(c) Upon receipt of the proper application fee, the permit processing time requirements of Sections 120.60(2) and 403.0876, F.S., shall begin.

(d) If the applicant does not submit the required fee within ten days of receipt of written notification, the Department shall either return the unprocessed application or arrange with the applicant for the pick up of the application.

(e) If an applicant submits an application fee in excess of the required fee, the permit processing time requirements of Sections 120.60(2) and 403.0876, F.S., shall begin upon receipt, and the Department shall refund to the applicant the amount received in excess of the required fee.

(6) Any substantial modification to a complete application shall require an additional processing fee determined pursuant to the schedule set forth in Rule 62-4.050, F.A.C., and shall restart the time requirements of Sections 120.60 and 403.0876, F.S. For purposes of this Subsection, the term "substantial modification" shall mean a modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review.

(7) Modifications to existing permits proposed by the permittee which require substantial changes in the existing permit or require substantial evaluation by the Department of potential impacts of the proposed modifications shall require the same fee as a new application.

[Rule 62-4.050, F.A.C.]

3. Standards for Issuing or Denying Permits. Except as provided at Rule 62-213.460, F.A.C., the issuance of a permit does not relieve any person from complying with the requirements of Chapter 403, F.S., or Department rules.

[Rule 62-4.070(7), F.A.C.]

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

4. Modification of Permit Conditions.

(1) For good cause and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions and on application of the permittee the Department may grant additional time. For the purpose of this section, good cause shall include, but not be limited to, any of the following:

- (a) A showing that an improvement in effluent or emission quality or quantity can be accomplished because of technological advances without unreasonable hardship.
- (b) A showing that a higher degree of treatment is necessary to effect the intent and purpose of Chapter 403, F.S.
- (c) A showing of any change in the environment or surrounding conditions that requires a modification to conform to applicable air or water quality standards.
- (e) Adoption or revision of Florida Statutes, rules, or standards which require the modification of a permit condition for compliance.

(2) A permittee may request a modification of a permit by applying to the Department.

(3) A permittee may request that a permit be extended as a modification of the permit. Such a request must be submitted to the Department in writing before the expiration of the permit. Upon timely submittal of a request for extension, unless the permit automatically expires by statute or rule, the permit will remain in effect until final agency action is taken on the request. For construction permits, an extension shall be granted if the applicant can demonstrate reasonable assurances that, upon completion, the extended permit will comply with the standards and conditions required by applicable regulation. For all other permits, an extension shall be granted if the applicant can demonstrate reasonable assurances that the extended permit will comply with the standards and conditions applicable to the original permit. A permit for which the permit application fee was prorated in accordance with Rule 62-4.050(4)(1), F.A.C., shall not be extended. In no event shall a permit be extended or remain in effect longer than the time limits established by statute or rule.

[Rule 62-4.080, F.A.C.]

5. Renewals. Prior to one hundred eighty (180) days before the expiration of a permit issued pursuant to Chapter 62-213, F.A.C., the permittee shall apply for a renewal of a permit using forms incorporated by reference in the specific rule chapter for that kind of permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 180 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department or, if there is court review of the Department's final agency action, until a later date is required by Section 120.60, F.S., provided that, for renewal of a permit issued pursuant to Chapter 62-213, F.A.C., the applicant complies with the requirements of Rules 62-213.420(1)(b)3. and 4., F.A.C.

[Rule 62-4.090(1), F.A.C.]

6. Suspension and Revocation.

(1) Permits shall be effective until suspended, revoked, surrendered, or expired and shall be subject to the provisions of Chapter 403, F.S., and rules of the Department.

(2) Failure to comply with pollution control laws and rules shall be grounds for suspension or revocation.

(3) A permit issued pursuant to Chapter 62-4, F.A.C., shall not become a vested property right in the permittee. The Department may revoke any permit issued by it if it finds that the permit holder or the permit holder's agent:

- (a) Submitted false or inaccurate information in application or operational reports.
- (b) Has violated law, Department orders, rules or permit conditions.
- (c) Has failed to submit operational reports or other information required by Department rules.
- (d) Has refused lawful inspection under Section 403.091, F.S.

[Rule 62-4.100, F.A.C.]

7. **Not federally enforceable.** Financial Responsibility. The Department may require an applicant to submit proof of financial responsibility and may require the applicant to post an appropriate bond to guarantee compliance with the law and Department rules.

[Rule 62-4.110, F.A.C.]

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

8. Transfer of Permits.

(1) Within 30 days after the sale or legal transfer of a permitted facility, an "Application for Transfer of Permit" (DEP Form 62-1.201(1)) must be submitted to the Department. This form must be completed with the notarized signatures of both the permittee and the proposed new permittee.

(2) The Department shall approve the transfer of a permit unless it determines that the proposed new permittee cannot provide reasonable assurances that conditions of the permit will be met. The determination shall be limited solely to the ability of the new permittee to comply with the conditions of the existing permit, and it shall not concern the adequacy of these permit conditions. If the Department proposes to deny the transfer, it shall provide both the permittee and the proposed new permittee a written objection to such transfer together with notice of a right to request a Chapter 120. F.S., proceeding on such determination.

(3) Within 30 days of receiving a properly completed Application for Transfer of Permit form, the Department shall issue a final determination. The Department may toll the time for making a determination on the transfer by notifying both the permittee and the proposed new permittee that additional information is required to adequately review the transfer request. Such notification shall be served within 30 days of receipt of an Application for Transfer of Permit form, completed pursuant to Rule 62-4.120(1), F.A.C. If the Department fails to take action to approve or deny the transfer within 30 days of receipt of the completed Application for Transfer of Permit form, or within 30 days of receipt of the last item of timely requested additional information, the transfer shall be deemed approved.

(4) The permittee is encouraged to apply for a permit transfer prior to the sale or legal transfer of a permitted facility. However, the transfer shall not be effective prior to the sale or legal transfer.

(5) Until this transfer is approved by the Department, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations occurring prior to the sale or legal transfer of the facility.

[Rule 62-4.120, F.A.C.]

9. Plant Operation-Problems. If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules.

[Rule 62-4.130, F.A.C.]

10. For purposes of notification to the Department pursuant to Rule 62-4.130, F.A.C., Plant Operation-Problems, "immediately" shall mean the same day, if during a workday (i.e., 8:00 a.m. - 5:00 p.m.), or the first business day after the incident, excluding weekends and holidays.

[40 CFR 70.6(a)(3)(iii)(B)]

11. **Not federally enforceable.** Review. Failure to request a hearing within 14 days of receipt of notice of proposed or final agency action on a permit application or as otherwise required in Chapter 62-103, F.A.C., shall be deemed a waiver of the right to an administrative hearing.

[Rule 62-4.150, F.A.C.]

12. Permit Conditions. All permits issued by the Department shall include the following general conditions:

(1) The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

(2) This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

(3) As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

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- (4) This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- (5) This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of F.S. and Department rules, unless specifically authorized by an order from the Department.
- (6) The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- (7) The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
- (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
- (8) If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- (a) A description of and cause of noncompliance; and,
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
- (9) In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the F.S. or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- (10) The permittee agrees to comply with changes in Department rules and F.S. after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by F.S. or Department rules.
- (11) This permit is transferable only upon Department approval in accordance with Rule 62-4.120, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- (12) This permit or a copy thereof shall be kept at the work site of the permitted activity.
- (14) The permittee shall comply with the following:
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least five (5) years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - (c) Records of monitoring information shall include:
    - 1. the date, exact place, and time of sampling or measurements;
    - 2. the person responsible for performing the sampling or measurements;
    - 3. the dates analyses were performed;
    - 4. the person responsible for performing the analyses;
    - 5. the analytical techniques or methods used; and,
    - 6. the results of such analyses.
- (15) When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.
- [Rules 62-4.160 and 62-213.440(1)(b), F.A.C.]

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

13. Construction Permits.

(1) No person shall construct any installation or facility which will reasonably be expected to be a source of air or water pollution without first applying for and receiving a construction permit from the Department unless exempted by statute or Department rule. In addition to the requirements of Chapter 62-4, F.A.C., applicants for a Department Construction Permit shall submit the following as applicable:

- (a) A completed application on forms furnished by the Department.
- (b) An engineering report covering:
  - 1. plant description and operations,
  - 2. types and quantities of all waste material to be generated whether liquid, gaseous or solid,
  - 3. proposed waste control facilities,
  - 4. the treatment objectives,
  - 5. the design criteria on which the control facilities are based, and,
  - 6. other information deemed relevant.

Design criteria submitted pursuant to Rule 62-4.210(1)(b)5., F.A.C., shall be based on the results of laboratory and pilot-plant scale studies whenever such studies are warranted. The design efficiencies of the proposed waste treatment facilities and the quantities and types of pollutants in the treated effluents or emissions shall be indicated. Work of this nature shall be subject to the requirements of Chapter 471, F.S. Where confidential records are involved, certain information may be kept confidential pursuant to Section 403.111, F.S.

- (c) The owners' written guarantee to meet the design criteria as accepted by the Department and to abide by Chapter 403, F.S. and the rules of the Department as to the quantities and types of materials to be discharged from the installation. The owner may be required to post an appropriate bond or other equivalent evidence of financial responsibility to guarantee compliance with such conditions in instances where the owner's financial resources are inadequate or proposed control facilities are experimental in nature.

(2) The construction permit may contain conditions and an expiration date as determined by the Secretary or the Secretary's designee.

(3) When the Department issues a permit to construct, the permittee shall be allowed a period of time, specified in the permit, to construct, and to operate and test to determine compliance with Chapter 403, F.S., and the rules of the Department and, where applicable, to apply for and receive an operation permit. The Department may require tests and evaluations of the treatment facilities by the permittee at his/her expense.

[Rule 62-4.210, F.A.C.]

14. Not federally enforceable. Operation Permit for New Sources. To properly apply for an operation permit for new sources, the applicant shall submit certification that construction was completed noting any deviations from the conditions in the construction permit and test results where appropriate.

[Rule 62-4.220, F.A.C.]

Chapter 62-103, F.A.C.

15. Public Notice, Public Participation, and Proposed Agency Action. The permittee shall comply with all of the requirements for public notice, public participation, and proposed agency action pursuant to Rule 62-103.150 and Rule 62-210.350, F.A.C.

[Rules 62-103.150, 62-210.350 and 62-213.430(1)(b), F.A.C.]

16. Administrative Hearing. The permittee shall comply with all of the requirements for a petition for administrative hearing or waiver of right to administrative proceeding pursuant to Rule 61-103.155, F.A.C.

[Rule 62-103.155, F.A.C.]

Chapter 62-204, F.A.C.

17. Asbestos. This permit does not authorize any demolition or renovation of the facility or its parts or components which involves asbestos removal. This permit does not constitute a waiver of any of the requirements of Chapter 62-257, F.A.C., and 40 CFR Part 61, Subpart M. National Emission Standard for Asbestos, adopted and incorporated by reference in Rule 62-204.800, F.A.C. Compliance with Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, Section 61.145, is required for any asbestos demolition or renovation at the source.

[40 CFR 61; Rule 62-204.800, F.A.C.; and, Chapter 62-257, F.A.C.]



APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

Chapter 62-210, F.A.C.

18. Permits Required. The owner or operator of any emissions unit which emits or can reasonably be expected to emit any air pollutant shall obtain an appropriate permit from the Department prior to beginning construction, modification, or initial or continued operation of the emissions unit unless exempted pursuant to Department rule or statute. All emissions limitations, controls, and other requirements imposed by such permits shall be at least as stringent as any applicable limitations and requirements contained in or enforceable under the State Implementation Plan (SIP) or that are otherwise federally enforceable. Except as provided at Rule 62-213.460, F.A.C., issuance of a permit does not relieve the owner or operator of an emissions unit from complying with any applicable requirements, any emission limiting standards or other requirements of the air pollution rules of the Department or any other such requirements under federal, state, or local law.

(1) Air Construction Permits. An air construction permit shall be obtained by the owner or operator of any proposed new or modified facility or emissions unit prior to the beginning of construction or modification, in accordance with all applicable provisions of Chapters 62-210, 62-212 and 62-4, F.A.C. The construction permit shall be issued for a period of time sufficient to allow construction or modification of the facility or emissions unit and operation while the new or modified facility or emissions unit is conducting tests or otherwise demonstrating initial compliance with the conditions of the construction permit.

(2) Air Operation Permits. Upon expiration of the air operation permit for any existing facility or emissions unit, subsequent to construction or modification and demonstration of initial compliance with the conditions of the construction permit for any new or modified facility or emissions unit, or as otherwise provided in Chapter 62-210 or Chapter 62-213, the owner or operator of such facility or emissions unit shall obtain a renewal air operation permit, an initial air operation permit, or an administrative correction or revision of an existing air operation permit, whichever is appropriate, in accordance with all applicable provisions of Chapter 62-210, Chapter 62-213, and Chapter 62-4, F.A.C.

(a) Minimum Requirements for All Air Operation Permits. At a minimum, a permit issued pursuant to this subsection shall:

1. Specify the manner, nature, volume and frequency of the emissions permitted, and the applicable emission limiting standards or performance standards, if any;
2. Require proper operation and maintenance of any pollution control equipment by qualified personnel, where applicable in accordance with the provisions of any operation and maintenance plan required by the air pollution rules of the Department.
3. Contain an effective date stated in the permit which shall not be earlier than the date final action is taken on the application and be issued for a period, beginning on the effective date, as provided below.

a. The operation permit for an emissions unit which is in compliance with all applicable rules and in operational condition, and which the owner or operator intends to continue operating, shall be issued or renewed for a five-year period, except that, for Title V sources subject to Rule 62-213.420(1)(a)1., F.A.C., operation permits shall be extended until 60 days after the due date for submittal of the facility's Title V permit application as specified in Rule 62-213.420(1)(a)1., F.A.C.

b. Except as provided in Rule 62-210.300(2)(a)3.d., F.A.C., the operation permit for an emissions unit which has been shut down for six months or more prior to the expiration date of the current operation permit, shall be renewed for a period not to exceed five years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided:

- (i) the owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and,
- (ii) the owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and,
- (iii) the emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

c. Except as provided in Rule 62-210.300(2)(a)3.d., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

d. The operation permit for an electric utility generating unit on cold standby or long-term reserve shutdown shall be renewed for a five-year period, and additional five-year periods, even if the unit is not maintained in operational condition, provided the conditions given in Rules 62-210.300(2)(a)3.b.(i) through (iii), F.A.C., are met.

4. In the case of an emissions unit permitted pursuant to Rules 62-210.300(2)(a)3.b., c., and d., F.A.C., include reasonable notification and compliance testing requirements for reactivation of such emissions unit and provide that the owner or operator demonstrate to the Department prior to reactivation that such reactivation would not constitute reconstruction pursuant to Rule 62-204.800(7), F.A.C.

[Rules 62-210.300(1) & (2), F.A.C.]

19. **Not federally enforceable.** Notification of Startup. The owner or operator of any emissions unit or facility which has a valid air operation permit and which has been shut down more than one (1) year, shall notify the Department in writing of the intent to start up such emissions unit or facility, a minimum of sixty (60) days prior to the intended startup date.

(a) The notification shall include the planned startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit.

(b) If, due to an emergency, a startup date is not known 60 days prior thereto, the owner shall notify the Department as soon as possible after the date of such startup is ascertained.

[Rule 62-210.300(5), F.A.C.]

20. Emissions Unit Reclassification.

(a) Any emissions unit whose operation permit has been revoked as provided for in Chapter 62-4, F.A.C., shall be deemed permanently shut down for purposes of Rule 62-212.500, F.A.C. Any emissions unit whose permit to operate has expired without timely renewal or transfer may be deemed permanently shut down, provided, however, that no such emissions unit shall be deemed permanently shut down if, within 20 days after receipt of written notice from the Department, the emissions unit owner or operator demonstrates that the permit expiration resulted from inadvertent failure to comply with the requirements of Rule 62-4.090, F.A.C., and that the owner or operator intends to continue the emissions unit in operation, and either submits an application for an air operation permit or complies with permit transfer requirements, if applicable.

(b) If the owner or operator of an emissions unit which is so permanently shut down, applies to the Department for a permit to reactivate or operate such emissions unit, the emissions unit will be reviewed and permitted as a new emissions unit.

[Rule 62-210.300(6), F.A.C.]

21. Public Notice and Comment.

(1) Public Notice of Proposed Agency Action.

(a) Notwithstanding any discretionary public notice requirements contained in Rule 62-103.150(2)(a), F.A.C., a notice of proposed agency action on permit application, where the proposed agency action is to issue the permit, shall be published by any applicant for:

1. An air construction permit;
2. An air operation permit, permit renewal or permit revision subject to Rule 62-210.300(2)(b), F.A.C., (i.e., a FESOP), except as provided in Rule 62-210.300(2)(b)1.b., F.A.C.; or
3. An air operation permit, permit renewal, or permit revision subject to Chapter 62-213, F.A.C., except those permit revisions meeting the requirements of Rule 62-213.412(1), F.A.C.

(b) The notice required by Rule 62-210.350(1)(a), F.A.C., shall be published in accordance with all otherwise applicable provisions of Rule 62-103.150, F.A.C.

(2) Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment-Area Preconstruction Review.

(a) Before taking final agency action on a construction permit application for any proposed new or modified facility or emissions unit subject to the preconstruction review requirements of Rule 62-212.400 or 62-212.500, F.A.C., the Department shall comply with all applicable provisions of Rule 62-103.150, F.A.C., and provide an opportunity for public comment which shall include as a minimum the following:

1. A complete file available for public inspection in at least one location in the district affected which includes the information submitted by the owner or operator, exclusive of confidential records under Section 403.111, F.S., and the Department's analysis of the effect of the proposed construction or modification on ambient air quality, including the Department's preliminary determination of whether the permit should be approved or disapproved;
2. A 30-day period for submittal of public comments; and

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

3. A notice, by advertisement in a newspaper of general circulation in the county affected, specifying the nature and location of the proposed facility or emissions unit, whether BACT or LAER has been determined, the degree of PSD increment consumption expected, if applicable, and the location of the information specified in paragraph 1. above; and notifying the public of the opportunity for submitting comments and requesting a public hearing.
- (b) The notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall be prepared by the Department and published by the applicant in accordance with all applicable provisions of Rule 62-103.150, F.A.C., except that the applicant shall cause the notice to be published no later than thirty (30) days prior to final agency action.
- (c) A copy of the notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall also be sent by the Department to the Regional Office of the U. S. Environmental Protection Agency and to all other state and local officials or agencies having cognizance over the location of such new or modified facility or emissions unit, including local air pollution control agencies, chief executives of city or county government, regional land use planning agencies, and any other state, Federal Land Manager, or Indian Governing Body whose lands may be affected by emissions from the new or modified facility or emissions unit.
- (d) A copy of the notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall be displayed in the appropriate district, branch and local program offices.
- (e) An opportunity for public hearing shall be provided in accordance with Chapter 120, F.S., and Rule 62-103.150, F.A.C.
- (f) Any public comments received shall be made available for public inspection in the location where the information specified in Rule 62-210.350(2)(a)1., F.A.C., is available and shall be considered by the Department in making a final determination to approve or deny the permit.
- (g) The final determination shall be made available for public inspection at the same location where the information specified in Rule 62-210.350(2)(a)1., F.A.C., was made available.
- (h) For a proposed new or modified emissions unit which would be located within 100 kilometers of any Federal Class I area or whose emissions may affect any Federal Class I area, and which would be subject to the preconstruction review requirements of Rule 62-212.400, F.A.C., or Rule 62-212.500, F.A.C.:
1. The Department shall mail or transmit to the Administrator a copy of the initial application for an air construction permit and notice of every action related to the consideration of the permit application.
  2. The Department shall mail or transmit to the Federal Land Manager of each affected Class I area a copy of any written notice of intent to apply for an air construction permit; the initial application for an air construction permit, including all required analyses and demonstrations; any subsequently submitted information related to the application; the preliminary determination and notice of proposed agency action on the permit application; and any petition for an administrative hearing regarding the application or the Department's proposed action. Each such document shall be mailed or transmitted to the Federal Land Manager within fourteen (14) days after its receipt by the Department.
- (3) Additional Public Notice Requirements for Facilities Subject to Operation Permits for Title V Sources.
- (a) Before taking final agency action to issue a new, renewed, or revised air operation permit subject to Chapter 62-213, F.A.C., the Department shall comply with all applicable provisions of Rule 62-103.150, F.A.C., and provide an opportunity for public comment which shall include as a minimum the following:
1. A complete file available for public inspection in at least one location in the district affected which includes the information submitted by the owner or operator, exclusive of confidential records under Section 403.111, F.S.; and,
  2. A 30-day period for submittal of public comments.
- (b) The notice provided for in Rule 62-210.350(3)(a), F.A.C., shall be prepared by the Department and published by the applicant in accordance with all applicable provisions of Rule 62-103.150, F.A.C., except that the applicant shall cause the notice to be published no later than thirty (30) days prior to final agency action.
- (c) The notice shall identify:
1. The facility;
  2. The name and address of the office at which processing of the permit occurs;
  3. The activity or activities involved in the permit action;
  4. The emissions change involved in any permit revision;
  5. The name, address, and telephone number of a Department representative from whom interested persons may obtain additional information, including copies of the permit draft, the application, and all relevant supporting materials, including any permit application, compliance plan, permit, monitoring report, and compliance statement required pursuant to Chapter 62-213, F.A.C. (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), and all other materials available to the Department that are relevant to the permit decision;
  6. A brief description of the comment procedures required by Rules 62-103.150 and 62-210.350(3), F.A.C.;
  7. The time and place of any hearing that may be held, including a statement of procedure to request a hearing (unless a hearing has already been scheduled); and,

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

8. The procedures by which persons may petition the Administrator to object to the issuance of the proposed permit after expiration of the Administrator's 45-day review period.

[Rule 62-210.350, F.A.C.]

22. Administrative Permit Corrections.

(1) A facility owner shall notify the Department by letter of minor corrections to information contained in a permit. Such notifications shall include:

- (a) Typographical errors noted in the permit;
- (b) Name, address or phone number change from that in the permit;
- (c) Any other similar minor administrative change at the source; and,
- (d) A change requiring more frequent monitoring or reporting by the permittee.
- (e) Changes listed at 40 CFR 72.83(a)(1), (2), (6), (9) and (10), hereby adopted and incorporated by reference, to Title V sources subject to emissions limitations or reductions pursuant to 42 USC ss. 7651-7651o;
- (f) Changes listed at 40 CFR 72.83(a)(11), hereby adopted and incorporated by reference, to Title V sources subject to emissions limitations or reductions pursuant to 42 USC ss. 7651-7651o, provided the notification is accompanied by a copy of any EPA determination concerning the similarity of the change to those listed at Rule 17-210.360(1)(e).

(2) Upon receipt of such notifications the Department shall within 60 days correct the permit and provide a corrected copy to the owner.

(3) For facilities subject to Chapter 62-213, F.A.C., a copy shall be provided to EPA and any approved local air program in the county where the facility or any part of the facility is located.

(4) The Department shall incorporate requirements resulting from issuance of new or revised construction permits into existing operation permits issued pursuant to Chapter 62-213, F.A.C., if the construction permit revisions incorporate requirements of federally enforceable preconstruction review and if the applicant requests at the time of application that all of the requirements of Rule 62-213.430(1), F.A.C., be complied with in conjunction with the processing of the construction permit application.

[Rule 62-210.360, F.A.C.]

23. Reports.

(3) Annual Operating Report for Air Pollutant Emitting Facility.

(a) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year.

(c) The annual operating report shall be submitted to the appropriate Department District or Department approved local air pollution control program office by March 1 of the following year unless otherwise indicated by permit condition or Department request.

[Rule 62-210.370(3), F.A.C.]

24. Circumvention. No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.

[Rule 62-210.650, F.A.C.]

25. Forms and Instructions. The forms used by the Department in the stationary source control program are adopted and incorporated by reference in this section. The forms are listed by rule number, which is also the form number, with the subject, title and effective date. Copies of forms may be obtained by writing to the Department of Environmental Protection, Division of Air Resources Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

(1) Application for Air Permit - Long Form, Form and Instructions.

- (a) Acid Rain Part (Phase II), Form and Instructions.
  - 1. Repowering Extension Plan, Form and Instructions.
  - 2. New Unit Exemption, Form and Instructions.
  - 3. Retired Unit Exemption, Form and Instructions.

(b) Reserved.

(5) Annual Operating Report (AOR) for Air Pollutant Emitting Facility, Form and Instructions.

[Rule 62-210.900, F.A.C.]

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

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Chapter 62-213, F.A.C.

26. Annual Emissions Fee. Each Title V source permitted to operate in Florida must pay between January 15 and March 1 of each year, upon written notice from the Department, an annual emissions fee in accordance with Rule 62-213.205, F.A.C., and the appropriate form and associated instructions.

[Rules 62-213.205 and 62-213.900(1), F.A.C.]

27. Annual Emissions Fee. Failure to pay timely any required annual emissions fee, penalty, or interest constitutes grounds for permit revocation pursuant to Rule 62-4.100, F.A.C.

[Rule 62-213.205(1)(g), F.A.C.]

28. Annual Emissions Fee. Any documentation of actual hours of operation, actual material or heat input, actual production amount, or actual emissions used to calculate the annual emissions fee shall be retained by the owner for a minimum of five (5) years and shall be made available to the Department upon request.

[Rule 62-213.205(1)(j), F.A.C.]

29. Annual Emissions Fee. DEP Form 62-213.900(1), F.A.C., "Major Air Pollution Source Annual Emissions Fee Form", must be completed by the permittee and submitted with the annual emissions fee.

[Rule 62-213.205(4), F.A.C.]

30. Air Operation Permit Fees. After December 31, 1992, no permit application processing fee, renewal fee, modification fee or amendment fee is required for an operation permit for a Title V source.

[Rule 62-213.205(5), F.A.C.]

31. Permits and Permit Revisions Required. All Title V sources are subject to the permit requirements of Chapter 62-213, F.A.C.

[Rule 62-213.400, F.A.C.]

32. No Title V source may operate except in compliance with Chapter 62-213, F.A.C.

[Rule 62-213.400(1), F.A.C.]

33. Changes Without Permit Revision. Title V sources having a valid permit issued pursuant to Chapter 62-213, F.A.C., may make the following changes without permit revision, provided that sources shall maintain source logs or records to verify periods of operation in each alternative method of operation:

(1) Permitted sources may change among those alternative methods of operation allowed by the source's permit as provided by the terms of the permit;

(2) Permitted sources may implement the terms or conditions of a new or revised construction permit if;

(a) The application for construction permit complied with the requirements of Rule 62-213.420(3) and (4), F.A.C.;

(b) The terms or conditions were subject to federally enforceable preconstruction review pursuant to Chapter 62-212, F.A.C.; and,

(c) The new or revised construction permit was issued after the Department and the applicant complied with all the requirements of Rule 62-213.430(1), F.A.C.;

(3) A permitted source may implement operating changes after the source submits any forms required by any applicable requirement and provides the Department and EPA with at least 7 days written notice prior to implementation. The source and the Department shall attach each notice to the relevant permit;

(a) The written notice shall include the date on which the change will occur, and a description of the change within the permitted source, the pollutants emitted and any change in emissions, and any term or condition becoming applicable or no longer applicable as a result of the change;

(b) The permit shield described in Rule 62-213.460, F.A.C., shall not apply to such changes;

(4) Permitted sources may implement changes involving modes of operation only in accordance with Rule 62-213.415, F.A.C.

[Rule 62-213.410, F.A.C.]

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

34. Immediate Implementation Pending Revision Process.

(1) Those permitted Title V sources making any change that constitutes a modification pursuant to paragraph (a) of the definition of modification at Rule 62-210.200, F.A.C., but which would not constitute a modification pursuant to paragraph (b) of the same definition, may implement such change prior to final issuance of a permit revision in accordance with Rule 62-213.412, F.A.C., provided the change:

- (a) Does not violate any applicable requirement;
- (b) Does not contravene any permit term or condition for monitoring, testing, recordkeeping or reporting, or any compliance certification requirement;
- (c) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination of ambient impacts, or a visibility or increment analysis under the provisions of Chapter 62-212 or 62-296, F.A.C.;
- (d) Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject including any federally enforceable emissions cap or federally enforceable alternative emissions limit.

(2) A Title V source may immediately implement such changes after they have been incorporated into the terms and conditions of a new or revised construction permit issued pursuant to Chapter 62-212, F.A.C., and after the source provides to EPA, the Department, each affected state and any approved local air program having geographic jurisdiction over the source, a copy of the source's application for operation permit revision. The Title V source may conform its application for construction permit to include all information required by Rule 62-213.420, F.A.C., in lieu of submitting separate application forms.

(3) The Department shall process the application for operation permit revision in accordance with the provisions of Chapter 62-213, F.A.C., except that the Department shall issue a draft permit revision or a determination to deny the revision within 60 days of receipt of a complete application for operation permit revision or, if the Title V source has submitted a construction permit application conforming to the requirements of Rule 62-213.420, F.A.C., the Department shall issue a draft permit or a determination to deny the revision at the same time the Department issues its determination on issuance or denial of the construction permit application. The Department shall not take final action until all the requirements of Rule 62-213.430(1)(a), (c), (d), and (e), F.A.C., have been complied with.

(4) Pending final action on the operation permit revision application, the source shall implement the changes in accordance with the terms and conditions of the source's new or revised construction permit.

(5) The permit shield described in Rule 62-213.460, F.A.C., shall not apply to such changes until after the Department takes final action to issue the operation permit revision.

(6) If the Department denies the source's application for operation permit revision, the source shall cease implementation of the proposed changes.

[Rule 62-213.412, F.A.C.]

35. Permit Applications.

(1) Duty to Apply. For each Title V source, the owner or operator shall submit a timely and complete permit application in compliance with the requirements of Rules 62-213.420, 62-4.050(1) & (2), and 62-210.900, F.A.C.

(a) Timely Application.

3. For purposes of permit renewal, a timely application is one that is submitted in accordance with Rule 62-4.090, F.A.C.

(b) Complete Application.

1. Any applicant for a Title V permit, permit revision or permit renewal must submit an application on DEP Form No. 62-210.900(1), which must include all the information specified by Rule 62-213.420(3), F.A.C., except that an application for permit revision must contain only that information related to the proposed change. The applicant shall include information concerning fugitive emissions and stack emissions in the application. Each application for permit, permit revision or permit renewal shall be certified by a responsible official in accordance with Rule 62-213.420(4), F.A.C.

2. For those applicants submitting initial permit applications pursuant to Rule 62-213.420(1)(a)1., F.A.C., a complete application shall be an application that substantially addresses all the information required by the application form number 62-210.900(1), and such applications shall be deemed complete within sixty days of receipt of a signed and certified application unless the Department notifies the applicant of incompleteness within that time. For all other applicants, the applications shall be deemed complete sixty days after receipt, unless the Department, within sixty days after receipt of a signed application for permit, permit revision or permit renewal, requests additional documentation or information needed to process the application. An applicant making timely and complete application for permit, or timely application for permit renewal as described by Rule 62-4.090(1), F.A.C., shall continue to operate the source

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

under the authority and provisions of any existing valid permit or Florida Electrical Power Plant Siting Certification, provided the applicant complies with all the provisions of Rules 62-213.420(1)(b)3. and 4. F.A.C. Failure of the Department to request additional information within sixty days of receipt of a properly signed application shall not impair the Department's ability to request additional information pursuant to Rules 62-213.420(1)(b)3. and 4., F.A.C.

3. For those permit applications submitted pursuant to the provisions of Rule 62-213.420(1)(a)1., F.A.C., the Department shall notify the applicant if the Department becomes aware at any time during processing of the application that the application contains incorrect or incomplete information. The applicant shall submit the corrected or supplementary information to the Department within ninety days unless the applicant has requested and been granted additional time to submit the information. Failure of an applicant to submit corrected or supplementary information requested by the Department within ninety days or such additional time as requested and granted shall render the application incomplete.

4. For all applications other than those addressed at Rule 62-213.420(1)(b)3., F.A.C., should the Department become aware, during processing of any application that the application contains incorrect information, or should the Department become aware, as a result of comment from an affected State, an approved local air program, EPA, or the public that additional information is needed to evaluate the application, the Department shall notify the applicant within 30 days. When an applicant becomes aware that an application contains incorrect or incomplete information, the applicant shall submit the corrected or supplementary information to the Department. If the Department notifies an applicant that corrected or supplementary information is necessary to process the permit, and requests a response, the applicant shall provide the information to the Department within ninety days of the Department request unless the applicant has requested and been granted additional time to submit the information or, the applicant shall, within ninety days, submit a written request that the Department process the application without the information. Failure of an applicant to submit corrected or supplementary information requested by the Department within ninety days, or such additional time as requested and granted, or to demand in writing within ninety days that the application be processed without the information shall render the application incomplete. Nothing in this section shall limit any other remedies available to the Department.

[Rules 62-213.420(1)(a)3. and 62-213.420(1)(b)1., 2., 3. & 4., F.A.C.]

36. Confidential Information. Whenever an applicant submits information under a claim of confidentiality pursuant to Section 403.111, F.S., the applicant shall also submit a copy of all such information and claim directly to EPA.

[Rule 62-213.420(2), F.A.C.]

37. Standard Application Form and Required Information. Applications shall be submitted under Chapter 62-213, F.A.C., on forms provided by the Department and adopted by reference in Rule 62-210.900(1), F.A.C. The information as described in Rule 62-210.900(1), F.A.C., shall be included for the Title V source and each emissions unit. An application must include information sufficient to determine all applicable requirements for the Title V source and each emissions unit and to evaluate a fee amount pursuant to Rule 62-213.205, F.A.C.

[Rule 62-213.420(3), F.A.C.]

38. 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.

[Rule 62-213.420(4), F.A.C.]

39. a. Permit Renewal and Expiration. Permits being renewed are subject to the same requirements that apply to permit issuance at the time of application for renewal. Permit renewal applications shall contain that information identified in Rules 62-210.900(1) and 62-213.420(3), F.A.C. Unless a Title V source submits a timely application for permit renewal in accordance with the requirements of Rule 62-4.090(1), F.A.C., the existing permit shall expire and the source's right to operate shall terminate.

b. Permit Revision Procedures. Permit revisions shall meet all requirements of Chapter 62-213, F.A.C., including those for content of applications, public participation, review by approved local programs and affected states, and review by EPA, as they apply to permit issuance and renewal, except that permit revisions for those activities implemented pursuant to Rule 62-213.412, F.A.C., need not meet the requirements of Rule 62-213.430(1)(b), F.A.C. The Department shall require permit revision in accordance with the provisions of Rule 62-4.080, F.A.C., and 40 CFR 70.7(f), whenever any source becomes

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

subject to any condition listed at 40 CFR 70.7(f)(1), hereby adopted and incorporated by reference. The below requirements from 40 CFR 70.7(f) are adopted and incorporated by reference in Rule 62-213.430(4), F.A.C.:

o 40 CFR 70.7(f): Reopening for Cause.

(1) This section contains provisions from 40 CFR 70.7(f) that specify the conditions under which a Title V permit shall be reopened prior to the expiration of the permit. A Title V permit shall be reopened and revised under any of the following circumstances:

- (i) Additional applicable requirements under the Act become applicable to a major Part 70 source with a remaining permit term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii).
- (ii) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approved by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- (iii) The permitting authority or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- (iv) The Administrator or the permitting authority determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(2) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

(3) Reopenings under 40 CFR 70.7(f)(1) shall not be initiated before a notice of such intent is provided to the Part 70 source by the permitting authority at least 30 days in advance of the date that the permit is to be reopened, except that the permitting authority may provide a shorter time period in the case of an emergency.

[Rules 62-213.430(3) & (4), F.A.C.; and, 40 CFR 70.7(f)]

40. Insignificant Emissions Units or Pollutant-Emitting Activities.

(a) All requests for determination of insignificant emissions units or activities made pursuant to Rule 62-213.420(3)(m), F.A.C., shall be processed in conjunction with the permit, permit renewal or permit revision application submitted pursuant to Chapter 62-213, F.A.C. Insignificant emissions units or activities shall be approved by the Department consistent with the provisions of Rule 62-4.040(1)(b), F.A.C. Emissions units or activities which are added to a Title V source after issuance of a permit under Chapter 62-213, F.A.C., shall be incorporated into the permit at its next renewal, provided such emissions units or activities have been exempted from the requirement to obtain an air construction permit and also qualify as insignificant pursuant to Rule 62-213.430(6), F.A.C.

(b) An emissions unit or activity shall be considered insignificant if:

1. Such unit or activity would be subject to no unit-specific applicable requirement;
2. Such unit or activity, in combination with other units or activities proposed as insignificant, would not cause the facility to exceed any major source threshold(s) as defined in Rule 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s); and
3. Such unit or activity would not emit or have the potential to emit:
  - a. 500 pounds per year or more of lead and lead compounds expressed as lead;
  - b. 1,000 pounds per year or more of any hazardous air pollutant;
  - c. 2,500 pounds per year or more of total hazardous air pollutants; or
  - d. 5.0 tons per year or more of any other regulated pollutant.

[Rule 62-213.430(6), F.A.C.]

41. Permit Duration. Operation permits for Title V sources may not be extended as provided in Rule 62-4.080(3), F.A.C., if such extension will result in a permit term greater than five (5) years.

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

42. Monitoring Information. All records of monitoring information shall specify the date, place, and time of sampling or measurement and the operating conditions at the time of sampling or measurement, the date(s) analyses were performed, the company or entity that performed the analyses, the analytical techniques or methods used, and the results of such analyses.

[Rule 62-213.440(1)(b)2.a., F.A.C.]



APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

43. Retention of Records. Retention of records of all monitoring data and support information shall be for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[Rule 62-213.440(1)(b)2.b., F.A.C.]

44. Monitoring Reports. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports.

[Rule 62-213.440(1)(b)3.a., F.A.C.]

45. Deviation from Permit Requirements Reports. The permittee shall report in accordance with the requirements of Rules 62-210.700(6) and 62-4.130, F.A.C., any deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken.

[Rule 62-213.440(1)(b)3.b., F.A.C.]

46. Reports. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), F.A.C.

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

47. If any portion of the final permit is invalidated, the remainder of the permit shall remain in effect.

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

48. It shall not be a defense for a permittee in an enforcement action that maintaining compliance with any permit condition would necessitate halting of or reduction of the source activity.

[Rule 62-213.440(1)(d)3., F.A.C.]

49. A Title V source shall comply with all the terms and conditions of the existing permit until the Department has taken final action on any permit renewal or any requested permit revision, except as provided at Rule 62-213.412(2), F.A.C.

[Rule 62-213.440(1)(d)4., F.A.C.]

50. A situation arising from sudden and unforeseeable events beyond the control of the source which causes an exceedance of a technology-based emissions limitation because of unavoidable increases in emissions attributable to the situation and which requires immediate corrective action to restore normal operation, shall be an affirmative defense to an enforcement action in accordance with the provisions and requirements of 40 CFR 70.6(g)(2) and (3), hereby adopted and incorporated by reference.

[Rule 62-213.440(1)(d)5., F.A.C.]

51. Confidentiality Claims. Any permittee may claim confidentiality of any data or other information by complying with Rule 62-213.420(2), F.A.C.

[Rule 62-213.440(1)(d)6., F.A.C.]

52. Statement of Compliance. The permittee shall submit a statement of compliance with all terms and conditions of the permit. Such statement shall be submitted to the Department and EPA annually, or more frequently if specified by Rule 62-213.440(2), F.A.C., or by any other applicable requirement. The statement of compliance shall include the identity of each term or condition of the permit for which each unit has remained in compliance during the period covered by the statement. The statement shall include identification of all methods used to demonstrate compliance and identification of each term or condition of the permit for which any unit has not remained in compliance during the period covered by the statement. For each term or condition for which the source has not remained in compliance during the period covered by the statement, the statement shall also identify each unit not in compliance and each term and condition with which the unit was not in compliance and state the inclusive dates that the source was not in compliance, the actions taken to achieve compliance and the method used to demonstrate compliance. Such statement shall be accompanied by a certification by a responsible official, in accordance with Rule 62-213.420(4), F.A.C.

[Rule 62-213.440(3), F.A.C.]

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97) (continued)

53. Permit Shield. Except as provided in Chapter 62-213, F.A.C., compliance with the terms and conditions of a permit issued pursuant to Chapter 62-213, F.A.C., shall be deemed compliance with any applicable requirements in effect as of the date of permit issuance, provided that the source included such applicable requirements in the permit application. Nothing in Rule 62-213.460, F.A.C., or in any permit shall alter or affect the ability of EPA or the Department to deal with an emergency, the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance, or the requirements of the Federal Acid Rain Program.

[Rule 62-213.460, F.A.C.]

54. Forms and Instructions. The forms used by the Department in the Title V source operation program are adopted and incorporated by reference in Rule 62-213.900, F.A.C. The form is listed by rule number, which is also the form number, and with the subject, title, and effective date. Copies of forms may be obtained by writing to the Department of Environmental Protection, Division of Air Resources Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or by contacting the appropriate permitting authority.

(1) Major Air Pollution Source Annual Emissions Fee (AEF) Form.

[Rule 62-213.900(1), F.A.C.]

Chapter 62-256, F.A.C.

55. **Not federally enforceable.** Open Burning. This permit does not authorize any open burning nor does it constitute any waiver of the requirements of Chapter 62-256, F.A.C. Source shall comply with Chapter 62-256, F.A.C., for any open burning at the source.

[Chapter 62-256, F.A.C.]

Chapter 62-281, F.A.C.

56. Refrigerant Requirements. Any facility having refrigeration equipment, including air conditioning equipment, which uses a Class I or II substance (listed at 40 CFR 82, Subpart A, Appendices A and B), and any facility which maintains, services, or repairs motor vehicles using a Class I or Class II substance as refrigerant must comply with all requirements of 40 CFR 82, Subparts B and F, and with Rule 62-281.100, F.A.C. Those requirements include the following restrictions:

- (1) Any facility having any refrigeration equipment normally containing 50 (fifty) pounds of refrigerant or more, must keep servicing records documenting the date and type of all service and the quantity of any refrigerant added pursuant to 40 CFR 82.166;
- (2) No person repairing or servicing a motor vehicle may perform any service on a motor vehicle air conditioner (MVAC) involving the refrigerant for such air conditioner unless the person has been properly trained and certified as provided at 40 CFR 82.34 and 40 CFR 82.40, and properly uses equipment approved pursuant to 40 CFR 82.36 and 40 CFR 82.38, and complies with 40 CFR 82.42;
- (3) No person may sell or distribute, or offer for sale or distribution, any substance listed as a Class I or Class II substance at 40 CFR 82, Subpart A, Appendices A and B, except in compliance with Rule 62-281.100, F.A.C., and 40 CFR 82.34(b), 40 CFR 82.42, and/or 40 CFR 82.166;
- (4) No person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the atmosphere any Class I or Class II substance used as a refrigerant in such equipment and no other person may open appliances (except MVACs as defined at 40 CFR 82.152) for service, maintenance or repair unless the person has been properly trained and certified pursuant to 40 CFR 82.161 and unless the person uses equipment certified for that type of appliance pursuant to 40 CFR 82.158 and unless the person observes the practices set forth at 40 CFR 82.156 and 40 CFR 82.166;
- (5) No person may dispose of appliances (except small appliances, as defined at 40 CFR 82.152) without using equipment certified for that type of appliance pursuant to 40 CFR 82.158 and without observing the practices set forth at 40 CFR 82.156 and 40 CFR 82.166;
- (6) No person may recover refrigerant from small appliances, MVACs and MVAC-like appliances (as defined at 40 CFR 82.152), except in compliance with the requirements of 40 CFR 82, Subpart F.

[40 CFR 82; and, Chapter 62-281, F.A.C. (Chapter 62-281, F.A.C., is not federally enforceable)]

Chapter 62-296, F.A.C.

57. **Not federally enforceable until SIP approved. Industrial, Commercial, and Municipal Open Burning Prohibited.** Open burning in connection with industrial, commercial, or municipal operations is prohibited, except when:

- (a) Open burning is determined by the Department to be the only feasible method of operation and is authorized by an air permit issued pursuant to Chapter 62-210 or 62-213, F.A.C.; or
- (b) An emergency exists which requires immediate action to protect human health and safety; or
- (c) A county or municipality would use a portable air curtain incinerator to burn yard trash generated by a hurricane, tornado, fire or other disaster and the air curtain incinerator would otherwise be operated in accordance with the permitting exemption criteria of Rule 62-210.300(3), F.A.C.

[Rule 62-296.320(3), F.A.C.]

58. Unconfined Emissions of Particulate Matter.

(4)(c)1. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any emissions unit whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emission.

3. Reasonable precautions may include, but shall not be limited to the following:

- a. Paving and maintenance of roads, parking areas and yards.
- b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar emissions units.
- d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the emissions unit to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- e. Landscaping or planting of vegetation.
- f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- g. Confining abrasive blasting where possible.
- h. Enclosure or covering of conveyor systems.

4. In determining what constitutes reasonable precautions for a particular facility, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rules 62-296.320(4)(c)1., 3., & 4. F.A.C.]

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**Figure 1: Summary Report-**  
**Gaseous and Opacity Excess Emission and Monitoring System**  
**Performance**

# FIGURE 1--SUMMARY REPORT--GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

[Note: This form is referenced in 40 CFR 60.7, Subpart A-General Provisions]

Pollutant (Circle One):    SO<sub>2</sub>    NO<sub>x</sub>    TRS    H<sub>2</sub>S    CO    Opacity

Reporting period dates: From \_\_\_\_\_ to \_\_\_\_\_

Company: \_\_\_\_\_

Emission Limitation: \_\_\_\_\_

Address: \_\_\_\_\_

Monitor Manufacturer: \_\_\_\_\_

Model No.: \_\_\_\_\_

Date of Latest CMS Certification or Audit: \_\_\_\_\_

Process Unit(s) Description: \_\_\_\_\_

Total source operating time in reporting period <sup>1</sup>: \_\_\_\_\_

| Emission data summary <sup>1</sup>   | CMS performance summary <sup>1</sup>   |
|--|--|
| 1. Duration of excess emissions in reporting period due to:  | 1. CMS downtime in reporting period due to:  |
| a. Startup/shutdown ..... _____  | a. Monitor equipment malfunctions ..... _____  |
| b. Control equipment problems ..... _____  | b. Non-Monitor equipment malfunctions ..... _____                                    |
| c. Process problems ..... _____  | c. Quality assurance calibration ..... _____   |
| d. Other known causes ..... _____  | d. Other known causes ..... _____  |
| e. Unknown causes ..... _____  | e. Unknown causes ..... _____  |
| 2. Total duration of excess emissions ..... _____  | 2. Total CMS Downtime ..... _____  |
| 3. Total duration of excess emissions x (100) / [Total source operating time] ..... % <sup>2</sup> | 3. [Total CMS Downtime] x (100) / [Total source operating time] ..... % <sup>2</sup> |

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

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

*Note: On a separate page, describe any changes since last quarter in CMS, process or controls.*

I certify that the information contained in this report is true, accurate, and complete.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

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

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

Florida Power Corporation  
Tiger Bay Cogeneration Facility

PROPOSED Permit No.: 1050023-002-AV  
Facility ID No.: 1050223

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

| E. U. ID No.                   | Brief Description  | Pollutant Name   | Fuel(s)                          | Hours/Year | Allowable Emissions                 |                         |       | Equivalent Emissions <sup>1</sup> |                   | Regulatory Citation(s) | See Permit Condition(s) |              |
|--------------------------------|--|------------------|----------------------------------|------------|-------------------------------------|-------------------------|-------|-----------------------------------|-------------------|------------------------|-------------------------|--------------|
|                                |  |                  |                                  |            | Standard(s)                         | lbs./hour               | TPY   | lbs./hour                         | TPY               |                        |                         |              |
| -001                           | Combustion turbine<br>(1710 MMBtu/hour - N.G.)<br>(1849.9 MMBtu/hour - F.O.) | VE               | Distillate Fuel Oil              | 8760       | 20%                                 | N/A                     | N/A   | N/A                               | N/A               | PSD-FL-190, BACT       | A.23.                   |              |
|                                |  |                  | Natural Gas                      | 8760       | 10%                                 | N/A                     | N/A   | N/A                               | N/A               | PSD-FL-190, BACT       | A.24.                   |              |
|                                |  | PM <sub>10</sub> | Distillate Fuel Oil              | 8760       | N/A                                 | 17.0                    | 2.6   | N/A                               | N/A               | PSD-FL-190, BACT       | A.15.                   |              |
|                                |  |                  | Natural Gas                      | 8760       | N/A                                 | 9.0                     | 39.4  | N/A                               | N/A               | PSD-FL-190, BACT       | A.16.                   |              |
|                                |  | NOx              | Distillate Fuel Oil              | 8760       | 42 ppmvd @ 15 % O <sub>2</sub>      |                         | 326.0 | 48.9                              |                   | 48.9                   | PSD-FL-190, BACT        | A.8., A.9.   |
|                                |  |                  | Natural Gas                      | 8760       | 25 (15) ppmvd @ 15 % O <sub>2</sub> |                         | 161.9 | 709.1                             |                   | 709.1                  | PSD-FL-190, BACT        | A.10., A.11. |
|                                |  | SO <sub>2</sub>  | Distillate Fuel Oil              | 8760       | N/A                                 | 99.7                    | 15.0  | N/A                               | N/A               | N/A                    | PSD-FL-190, BACT        | A.12.        |
|                                |  |                  | Natural Gas                      | 8760       | N/A                                 | 4.86                    | 21.3  | N/A                               | N/A               | N/A                    | PSD-FL-190, BACT        | A.13.        |
|                                |  | % Sulfur         | Distillate Fuel Oil              | 8760       | max. sulfur content 0.05 %, by wt.  |                         | 85.2  | 12.78                             |                   | 12.78                  | PSD-FL-190, BACT        | A.14.        |
|                                |  |                  | Distillate Fuel Oil              | 8760       | 30 ppmvd                            |                         | 98.4  | 14.8                              |                   | 14.8                   | PSD-FL-190, BACT        | A.17.        |
|                                |  |                  | Natural Gas                      | 8760       | 15 ppmvd                            |                         | 48.8  | 213.7                             |                   | 213.7                  | PSD-FL-190, BACT        | A.18.        |
|                                |  | VOC              | Distillate Fuel Oil              | 8760       | N/A                                 | 7.5                     | 1.1   | N/A                               | N/A               | N/A                    | PSD-FL-190, BACT        | A.19.        |
|                                | Natural Gas  | 8760             | N/A                              | 2.8        | 12.3                                | N/A                     | N/A   | N/A                               | PSD-FL-190, BACT  | A.20.                  |                         |              |
| H <sub>2</sub> SO <sub>4</sub> | Distillate Fuel Oil  | 8760             | N/A                              | 1.22       | 0.183                               | 1.22                    | 0.183 | 0.183                             | PSD-FL-190, BACT  | A.21.                  |                         |              |
|                                | Natural Gas  | 8760             | N/A                              | 0.595      | 2.6                                 | 0.595                   | 2.6   | 2.6                               | PSD-FL-190, BACT  | A.22.                  |                         |              |
| Hg                             | Distillate Fuel Oil  | 8760             | 3.0 x 10 <sup>-6</sup> lbs/MMBtu |            | 5.5 x 10 <sup>-3</sup>              | 8.32 x 10 <sup>-4</sup> |       | 8.32 x 10 <sup>-4</sup>           | PSD-FL-190, BACT  | A.25.                  |                         |              |
| Arsenic                        | Distillate Fuel Oil  | 8760             | 4.2 x 10 <sup>-6</sup> lbs/MMBtu |            | 7.77 x 10 <sup>-3</sup>             | 1.17 x 10 <sup>-3</sup> |       | 1.17 x 10 <sup>-3</sup>           | PSD-FL-190, BACT  | A.26.                  |                         |              |
| Be                             | Distillate Fuel Oil  | 8760             | 2.5 x 10 <sup>-6</sup> lbs/MMBtu |            | 4.62 x 10 <sup>-3</sup>             | 6.94 x 10 <sup>-4</sup> |       | 6.94 x 10 <sup>-4</sup>           | PSD-FL-190, BACT  | A.27.                  |                         |              |
| Pb                             | Distillate Fuel Oil  | 8760             | 8.9 x 10 <sup>-6</sup> lbs/MMBtu |            | 1.65 x 10 <sup>-2</sup>             | 2.47 x 10 <sup>-3</sup> |       | 2.47 x 10 <sup>-3</sup>           | PSD-FL-190, BACT  | A.28.                  |                         |              |
| -002                           | Zero Liquid Discharge System<br>(3.07 MMBtu/hr - N. G. only)                 | VE               | Natural Gas                      | 8760       | 5%                                  | N/A                     | N/A   | N/A                               | Applicant Request | B.6.                   |                         |              |
|                                |  | PM <sub>10</sub> | Natural Gas                      | 8760       | N/A                                 | 0.021                   | 0.092 | 0.021                             | 0.092             | 62-296.700(a) & (c)    | B.5.                    |              |

**Notes:**

- The "Equivalent Emissions" listed are for informational purposes.
- NO<sub>x</sub> emissions from the CT shall be 15 ppm or less by 12/31/1999.

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



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

Florida Power Corporation  
Tiger Bay Cogeneration Facility

**PROPOSED Permit No.:** 1050023-002-AV  
**Facility ID No.:** 1050223

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   | Pollutant Name or Parameter                           | Compliance Method   |                             | Testing Time Frequency | Frequency Base Date | Min. Compliance Test Duration | CMS <sup>3</sup> | See Permit Condition(s)               |
|--------------|---|---|---------------------|-----------------------------|------------------------|---------------------|-------------------------------|------------------|---------------------------------------|
|              |   |   | Fuel(s)             | Method                      |                        |                     |                               |                  |                                       |
| -001         | Combustion Turbine<br>(1710 MMBtu/hour - N.G.)<br>(1849.9 MMBtu/hour - F.O.)<br>HRSG (Phase II Acid Rain) | VE  | Distillate Fuel Oil | EPA method 9                | Annually               |                     | 60 Minutes                    | No               | .40., A.48. - 50., A.54., A.58., A.59 |
|              |   |   | Natural Gas         | EPA method 9                | N/A                    |                     | 60 Minutes                    | No               |                                       |
|              |   | PM  | Distillate Fuel Oil | EPA method 5 or 17          | Annually <sup>1</sup>  |                     | 1 hour                        | No               | A.40., A.48. - 54., A.57. - 59.       |
|              |   |   | Natural Gas         | or EPA methods 201a and 202 | Annually <sup>1</sup>  |                     | 1 hour                        | No               |                                       |
|              |   | NO <sub>x</sub>                                       | Distillate Fuel Oil | EPA Method 20               | Annually               |                     | 1 hour                        | Yes              | A.37. - 42., A.53. - 55., A.59.       |
|              |   |   | Natural Gas         | EPA Method 20               | Annually               |                     | 1 hour                        | Yes              |                                       |
|              |   | SO <sub>2</sub>                                       | Distillate Fuel Oil | ASTM D 2880-96              | Annually               |                     | 1 hour                        | No               | A.40., A.42. - A.45., A.49. - 54.,    |
|              |   |   | Natural Gas         | ASTM D 1072-90(94)E-1       | Annually               |                     | 1 hour                        | No               | A.57. - A.59.                         |
|              |   | SO <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> mist | Distillate Fuel Oil | ASTM D4294                  | Annually               |                     | 1 hour                        | No               | A.40., A.45., A.49. - 54.,            |
|              |   |   | Natural Gas         | ASTM D3246-81               | Annually               |                     | 1 hour                        | No               | A.57. - A.59.                         |
| -002         | Zero Liquid Discharge System<br>(3.07 MMBtu/hr - N.G. only)   | CO  | Distillate Fuel Oil | EPA Method 10               | Annually               |                     | 1 hour                        | No               | A.40., A.46., A.49. - 54.,            |
|              |   |   | Natural Gas         | EPA Method 10               | Annually               |                     | 1 hour                        | No               | A.57. - A.59.                         |
|              |   | VOC   | Distillate Fuel Oil | EPA Method 25A              | Annually <sup>2</sup>  |                     | 1 hour                        | No               | A.40., A.47., A.49. - 54.             |
|              |   |   | Natural Gas         | EPA Method 25A              | Annually <sup>2</sup>  |                     | 1 hour                        | No               | A.57. - A.59.                         |
|              |   | VE  | Natural Gas         | EPA Method 9                | Annually               |                     | 30 minutes                    | No               | B.9., B.11. - B.14., B.16.            |
|              |   | PM  | Natural Gas         | EPA Method 5                | Annually               |                     | 1 hour                        | No               | B.10. - B.16.                         |

**Notes:**

1. Annual particulate matter tests are not required unless visible emissions tests indicate standards have been violated.
2. Annual VOC tests are not required if test for CO indicates compliance with the standards.
- 3 CMS [=] continuous monitoring system used for monitoring requirement in lieu of fuel sampling and analysis if marked 'yes'.  
(Acceptable as long as CMS is maintained and calibrated as required.)

INTEROFFICE MEMORANDUM

Date: 07-Jun-1999 05:05pm  
From: J-Michael.Kennedy  
J-Michael.Kennedy@fpc.com  
Dept:  
Tel No:

To: HOLTOM\_J ( HOLTOM\_J@A1 )  
Subject: Manning Comments

Jonathan,

Robert had a few comments. See what you think.

Regarding the response letter to the FPC comments, Comment #13:

Did you also disagree with the second part of the comment regarding the inclusion of the excess emissions provisions of Part 60 (60.8(c), 60.11(c), and 60.43c(d))? Should these provisions be included in the excess emissions portion of the permit?

**The version of the proposed permit determination e-mailed to you did not contain the latest version of our response to comment 13. I have corrected the PPD and verified the appropriate changes in the permit.**

Comment #18: No problem applying 60.335(a) to oil, but is it your position that it also applies to gas (no FBN in gas)?

**No change was made because this condition applies to all fuels.**

Regarding the draft permit:

Robert says that the unit is not referred to as an acid rain unit in the permit. I need to look to confirm, but it did become an acid rain unit when FPC purchased it in 1997.

**Refer to Subsection A. Facility Description, 1<sup>st</sup> paragraph, last sentence.**

Condition A.35: As written, the custom fuel monitoring schedule would begin anew when this permit becomes effective. Can we state that the schedule was effective on ....(whatever the date was)?

**Added the following citation following specific condition A.35.:  
[Approved and effective December 6, 1994.]**

Condition A.45: typo in first line - change t2 to "to".

**Correction made.**

Condition A.55: Should we remove the reference to the construction/PSD permit, since this provision was removed from that

permit?

**Reference was removed. This is still an NSPS requirement that applies if testing is not performed at 95-100% of capacity.**

Condition A.58(a)2: Remove "either" from first line.

**Correction made.**

Condition A.60: Per permitting note in Condition A.4, the heat input capacity is not a limit. Should we reword this or delete?

**This condition should stay as a means of requiring a compliance demonstration during testing.**

Condition B.5: Not a big deal, but Robert thinks it would be cleanest if this condition referred the reader to Condition B.10 (to clarify what the applicable compliance methods are).

**Cross-reference added.**

That's finally it. I'll be out tomorrow, but back in Wed. afternoon. Thanks for working with us on this, and I'll talk to you later.

Mike

INTEROFFICE MEMORANDUM

Date: 04-Jun-1999 10:27am  
From: J-Michael.Kennedy  
J-Michael.Kennedy@fpc.com  
Dept:  
Tel No:

To: HOLTOM\_J ( HOLTOM\_J@A1 )

Subject: Tiger Bay

Jonathan,

I finally have obtained comments on the Tiger Bay Title V permit from all but one person (Robert Manning, who will get with me first thing Monday). Hopefully the following thoughts and comments will cover any that Robert will have. Some of my comments are actually questions I am asking for clarification. They are as follows (by specific condition):

1) Facility Information: The permittee address is incorrect; it must be from the permit upon which this one was built. Our address is:

P.O. Box 14042  
MAC BB1A  
St. Petersburg, FL 33733

**Correction Made**

2) Condition A.4: For the permitting note, I would like to request the standard language that usually comes with heat input curves associated with combustion turbine units. For such sources, the rated capacity is ambient (or inlet) temperature-dependent as described by the heat input vs. temp. curve. Also, although I actually prefer the 90-100% of capacity criterion, the guidance used thus far for CTs employs a 95-100% criterion (as specified later in the permit by Condition A.54). (I have heard that the upcoming rule on this may revert back to 90-100%, even for CTs, because the 95% threshold can be hard to meet, especially for older units.) Let me know if I'm off-base here, since the language is just clarifying the meaning of the heat input limits. I just thought it might be cleaner to match it up with other parts of the permit.

**Changed permitting note after A.4. to read 95-100%. Curves covered by second permitting note following A.4.**

3) Condition A.11: This is really more of a question. We currently use NOx CEMs for measuring excess emissions while operating on natural gas. If we fire oil in the future, can we also use the CEMs to measure NOx directly rather than the increasingly antiquated water/fuel ratio measurement? This would also apply to Condition A.31, which then begs the question of the averaging time. As I understand it, EPA likes 3 hours for purposes of periodic monitoring.

Should we make compliance based on CEMs using a 3-hr. average?  
Longer?

**No change made at A.11. Permitting Note added after A.31. and A.38.**

4) Condition A.35 2.a: We have been relying on vendor analysis for sulfur content of the gas. Is this understood, or should we add specific language to that effect? I note that A.43 states the owner or operator shall determine compliance, and A.44 specifies that vendor data may be used. Can we make all three conditions allow the use of vendor analysis?

**Permitting Note added after A.35. 2.a. and A.43. A.44. ok as-is.**

5) Condition A.40: The whole VE compliance testing issue confuses me a bit. Is a VE only required if we exceed 400 hours of operation on oil in a given year? I was thinking that you folks were moving away from VE testing on natural gas.

**No change to VE requirements due to link to PM testing waiver.**

6) Condition A.42: Since our emissions are so low on natural gas, our span value is 100 ppm. In addition, as I understand it, the four-load test only applies to the initial compliance test for Subpart GG. At our other CTs, that has been the case, and the annual test is conducted at full load only.

**Changed 300 ppm span value to 100 ppm.**

7) Condition A.48: Same question as in Comment #5 on performing a VE for natural gas firing.

**See comment 5.**

8) Conditions A.55 and A.56: I think our comments on this may have caused some confusion. As I understand it, the ISO correction is used for calculating emissions with respect to the NSPS limit (as stated in the permit), and only during the initial NSPS-related compliance test. After that, we revert to the annual test required by the construction permit with respect to the limits set by BACT and without the ISO correction. The performance of the ISO correction has nothing to do with whether testing is performed at 95-100% of capacity. The 95-100% criterion determines whether capacity was reached during the compliance test, but it is not a trigger for use of the ISO correction, again as I understand how these things have been done to date.

**A.55. and 56. are covered by existing permitting notes.**

9) Appendix I-1, Insignificant Units: Number 34 shows NOx emissions at 2 TPH. It should be 2 TPY.

**Requested change was made.**

Thanks for your patience with us on this, Jonathan. I just want to make sure we have a good permit we all understand and agree upon before it goes up to EPA. I'll get any comments Robert may have Monday morning. I'll be out the afternoon of Friday the 4th, but I'll be in Monday.

Talk to you later.

Mike Kennedy  
(727) 826-4334