ST. Vincent's Medical Center
Facility ID No.: 0310068
Duval County

Title V Air Operation Permit Renewal
FINAL Permit No.: 0310068-008-AV
Renewal of Title V Air Operation Permit No. 0310068-007-AV

PERMITTING & COMPLIANCE AUTHORITY:
ENVIRONMENTAL AND COMPLIANCE DEPARTMENT
ENVIRONMENTAL QUALITY DIVISION
407 NORTH LAURA STREET, THIRD FLOOR
JACKSONVILLE, FL 32202
TELEPHONE: (904) 255-7100
FAX: (904) 588-0518

TITLE V AIR OPERATION PERMIT RENEWAL

FINAL Permit No.: 0310068-008-AV
Renewal of Title V Permit No. 0310068-007-AV

Table of Contents

Section **Page Number**

Placard Page……...1

I. Facility Information.....2

A. Facility Description.
B. Summary of Emissions Unit ID No(s). and Brief Description(s).
C. Relevant Documents.

II. Facility-wide Conditions……..3 - 6

III. Emissions Unit(s) and Conditions…….6 - 11

Emission Unit ID No.	**Brief Description**
Emissions Unit 002	Boiler No. 1 (West)
Emissions Unit 003	Boiler No. 2 (Center)
Emissions Unit 004	Boiler No. 3 (East)
Emissions Unit 005	Gas Turbine Cogenerator No. 1

Statement of Basis
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix LR-1, Local Rule Index
Appendix SS-1, Stack Sampling Facilities
Appendix TV-6, Title V Conditions version dated 06/23/06
Best Available Control Technology Determination for Boilers

Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements

Permittee:
St. Vincent's Medical Center
1 Shircliff Way
Jacksonville, FL 32204

FINAL Permit No.: 0310068-008-AV
Facility ID No.: 0310068
SIC Nos.: 80
Project: Title V Air Operation Permit Renewal

This permit is for purpose of renewing Title V Air Operation Permit No. 03100687-007-AV for St. Vincent's Medical Center. St. Vincent's Medical Center is a full care medical center including hospital, three (3) boilers, and a gas turbine cogeneration unit. This facility is located at 1 Shircliff Way, Jacksonville, Duval County; UTM Coordinates: Zone 17, 433.75 km East and 3358.7 km North; Latitude: 30° 18' 26" North and Longitude: 81° 41' 20" West.

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

Referenced attachments made a part of this permit:

Statement of Basis
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix TV-6, Title V Conditions version dated 06/23/06
Appendix SS-1, Stack Sampling Facilities
Best Available Control Technology Determination for Boilers

Effective Date: **April 10, 2011**
Renewal Application Due Date: **August 18, 2015**
Expiration Date: **March 31, 2016**

Environmental and Compliance Department
Environmental Quality Division

_____
Vincent A. Seibold, P.E.
Division Chief

VAS/HDS

Section I. Facility Information.

Subsection A. Facility Description.

This permit is for purpose of renewing Title V Air Operation Permit No. 03100687-007-AV for St. Vincent's Medical Center. St. Vincent's Medical Center is a full care medical center including hospital, three (3) boilers, and a gas turbine cogeneration unit.

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

Based on the Title V Air Operation Permit Renewal application received July 30, 2010, this facility is not a major source of hazardous air pollutants (HAPs).

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

EU ID No.	Brief Description
002	Boiler No. 1 (West)
003	Boiler No. 2 (Center)
004	Boiler No. 3 (East)
005	Gas Turbine Cogenerator No. 1

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

Subsection C. Relevant Documents.

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

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Appendix LR-1, Local Rule Index

These documents are on file with Permitting Authority:

Title V Air Operation Permit Renewal Application received July 30, 2010

Section II. Facility-wide Conditions

The following conditions apply facility-wide:

1. Appendix TV-6, Title V Conditions, is a part of this permit.
   {Permitting note: Appendix TV-6, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.}

2. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.
   The permittee shall allow no person to store, pump, handle, process, load, unload, or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Permitting Authority.
   [Rule 62-296.320(1), and Rule 2.1101, JEPB]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard.
   Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity) in accordance with Rule 62-296.320(4)(b)1., FAC, and Rule 2.1101, JEPB. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, FAC, and Rule 2.1201, JEPB.
   [Rule 62-296.320(4)(b)1., FAC, and Rule 2.1101, JEPB]

4. Stack sampling facilities and control equipment shall be provided with a method of access that is safe and readily accessible.
   [Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB]

5. Excess emissions resulting from startup, shutdown, or malfunction of any emission unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) 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 Permitting Authority for longer duration. 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. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Permitting Authority in accordance with Rule 62-4.130, FAC and Rule 2.1401, JEPB. A full written report on the malfunctions shall be submitted to the Permitting Authority in a quarterly report, if requested by the Permitting Authority.
   [Rule 62-210.700, FAC, and Rule 2.301, JEPB]

6. Permittee shall notify the Permitting Authority fifteen (15) days prior to the date of each formal compliance test conducted for an emission unit.
   [Rule 62-297.310(7)(a)9., FAC, and Rule 2.1201, JEPB]

7. Testing of emissions shall be conducted with the Emissions Unit operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then EU(s) may be tested at less than the maximum permitted capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the authority to operate at the permitted capacity in the permit.
   [Rule 62-297.310(2), FAC, and Rule 2.1201, JEPB]

8. Copies of the test report(s) shall be filed with the Permitting Authority within forty-five (45) days of completion of testing.
   [Rule 62-297.310(8)(b), FAC, and Rule 2.1201, JEPB]

9. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter emissions from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions include 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 activities.
   d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, 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.

   [Rule 62-296.320(4)(c)2. & 3., FAC, and Rule 2.1101, JEPB]

10. <u>Prevention of Accidental Releases (Section 112(r) of CAA)</u>.

    a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

       RMP Reporting Center
       Post Office Box 10162
       Fairfax, VA 22038
       Telephone: (703) 227-7650

       and,

    b. The permittee shall submit to the Permitting Authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), FAC.

    [40 CFR 68]

11. <u>Annual Operation Report</u>. Permittee shall submit an annual operating report to the Permitting Authority for all emissions units on the forms supplied for each calendar year by April 1 of the following year.
    [Rule 62-210.370(3), F.A.C. and Rule 2.301, JEPB]

12. <u>Permit Renewal</u>. For purposes of a permit renewal, a timely application is one that is submitted 225 days before the expiration of a permit that expires on or after June 1, 2009.
    [Rule 62-213.420(1)(a)2., F.A.C. and Rule 2.501, JEPB]

13. Notification of Startup. The owners or operator of any emissions unit or facility which has a valid air operation permit which has been shut down more than one year, shall notify the Permitting Authority in writing of the intent to start up such emissions unit or facility, a minimum of 60 days prior to the intended startup date.

    a. The notification shall include information as to the 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 Permitting Authority as soon as possible after the date of such startup is ascertained.

    [Rule 62-210.300(5), F.A.C. and Rule 2.301, JEPB]

14 Insignificant Emission Units and/or Activities, Appendix I-1, List of Insignificant Emission Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), FAC, Rule 62-213.430(6), FAC, and Rule 62-4.040(1)(b), FAC; Rule 2.501, JEPB, and Rule 2.1401, JEPB]

15. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-Line Information Center at the following Internet web site: "http://www.dep.state.fl.us/air/emission/tvfee.htm".
[Rule 62-213.205, FAC and Rule 2.501, JEPB]

16. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), FAC., and Rule 2.501, JEPB]

17. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., FAC, shall be submitted to the Permitting Authority and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), FAC. {Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of Appendix TV-6, Title V Conditions)}
[Rules 62-213.440(3) and 62-213.900, FAC, and Rule 2.501, JEPB]

18. 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, FAC and Rule 2.501, JEPB]

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

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

20. 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. The permittee shall report in accordance with the requirements of Rule 62-210.700(6), FAC, Rule 62-4.130, FAC, Rule 2.301, JEPB, and Rule 2.1401, JEPB, 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. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), FAC, and Rule 2.501, JEPB. Unless otherwise specified in **a permit, rule, or order;** reports shall cover the period of January through June (report due on or before September 1) and July through December (report due on or before March 1).
[Rule 62-213.440(1)(b)3., FAC, and Rule 2.501, JEPB]

21. The permittee shall submit all compliance related notifications and reports required of this permit to:

Environmental and Compliance Department
Environmental Quality Division
407 North Laura Street, Third Floor
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

The following Facility-wide conditions are not federally enforceable

22. 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), FAC, and Rule 2.1101, JEPB.]

23. The facility shall be subject to the City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].

24. The facility shall be subject to JEPB Rule 2, Parts I through VII, and Parts IX through XIV.

Section III. Emissions Unit(s) and Conditions.

Emissions Unit No. 002 - Boiler No. 1 (West)

Emissions Unit Description: This emission unit is a 25 x 10^6 Btu per hour (Btu/hr) Babcock & Wilcox Boiler. The primary fuel is natural gas with No. 2 Fuel Oil as an emergency back-up fuel.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year (hrs/yr).
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum heat input shall not exceed 25 x 10^6 Btu/hr of natural gas or No. 2 Fuel Oil.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

3. Sulfur dioxide (SO_2) and PM emissions shall be controlled in accordance with the Best Available Control Technology (BACT) Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

4. The maximum sulfur content of No. 2 Fuel Oil fired shall not exceed 0.05 percent, by weight.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 20 percent opacity except that VE not exceeding 27 percent opacity are allowed for up to 6 minutes in any one hour period.
   [Rule 62-296.406(1), FAC, and 2.1101, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method (RM) 9 (as described in 40 CFR 60, appendix A) for the visual determination of opacity. Testing shall be conducted for a minimum period of 60 minutes.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE compliance testing shall be conducted every 12 months from the date of September 1, 2010. The test shall be a minimum of one (1) hour in length while firing fuel oil. Note: The test shall be conducted while firing fuel oil if the EU has operated 400 or more hours within the last 12 months while firing fuel oil, otherwise the annual testing may be conducted while firing natural gas.
   [Rule 62-297.310(7)(a), FAC, and Rule 2.1201, JEPB]

8. Fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Method D 2622-82 Sulfur in Petroleum Products (X-Ray Spectrographic Method). Records shall be maintained for a minimum period of five (5) years and shall be provided to the Permitting Authority upon request.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

Emissions Unit No. 003 - Boiler No. 2 (Center)

Emissions Unit Description: This emission unit is a 25 x 10^6 Btu/hr Babcock & Wilcox Boiler. The primary fuel is natural gas with No. 2 Fuel Oil as an emergency back-up fuel.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hrs/yr.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum heat input shall not exceed 25 x 10^6 Btu/hr of natural gas or No. 2 Fuel Oil.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

3. Sulfur dioxide (SO_2) and PM emissions shall be controlled in accordance with the BACT Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

4. The maximum sulfur content of No. 2 Fuel Oil fired shall not exceed 0.05 percent, by weight.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 20 percent opacity except that VE not exceeding 27 percent opacity are allowed for up to 6 minutes in any one hour period.
   [Rule 62-296.406(1), FAC, and 2.1101, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, appendix A) for the visual determination of opacity. Testing shall be conducted for a minimum period of 60 minutes.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE compliance testing shall be conducted every 12 months from the date of September 1, 2010. The test shall be a minimum of one (1) hour in length while firing fuel oil. Note: The test shall be conducted while firing fuel oil if the EU has operated 400 or more hours within the last 12 months while firing fuel oil, otherwise the annual testing may be conducted while firing natural gas.
   [Rule 62-297.310(7)(a), FAC, and Rule 2.1201, JEPB]

8. Fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Method D 2622-82 Sulfur in Petroleum Products (X-Ray Spectrographic Method). Records shall be maintained for a minimum period of five (5) years and shall be provided to the Permitting Authority upon request.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

Emissions Unit No. 004 - Boiler No. 3 (East)

Emissions Unit Description: This emission unit is a 25 x 10^6 Btu/hr Babcock & Wilcox Boiler. The primary fuel is natural gas with No. 2 Fuel Oil as an emergency back-up fuel.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hrs/yr.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum heat input shall not exceed 25 x 10^6 Btu/hr of natural gas or No. 2 Fuel Oil.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

3. Sulfur dioxide (SO_2) and PM emissions shall be controlled in accordance with the BACT Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

4. The maximum sulfur content of No. 2 Fuel Oil fired shall not exceed 0.05 percent, by weight.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 20 percent opacity except that VE not exceeding 27 percent opacity are allowed for up to 6 minutes in any one hour period.
   [Rule 62-296.406(1), FAC, and 2.1101, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, appendix A) for the visual determination of opacity. Testing shall be conducted for a minimum period of 60 minutes.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE compliance testing shall be conducted every 12 months from the date of September 1, 2010. The test shall be a minimum of one (1) hour in length while firing fuel oil. Note: The test shall be conducted while firing fuel oil if the EU has operated 400 or more hours within the last 12 months while firing fuel oil, otherwise the annual testing may be conducted while firing natural gas.
   [Rule 62-297.310(7)(a), FAC, and Rule 2.1201, JEPB]

8. Fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Method D 2622-82 Sulfur in Petroleum Products (X-Ray Spectrographic Method). Records shall be maintained for a minimum period of five (5) years and shall be provided to the Permitting Authority upon request.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

Emissions Unit No. 005 - Gas Turbine Cogenerator No. 1

Emissions Unit Description: This emission unit is a 25 x 10^6 Btu/hr Kawasaki gas turbine engine generator. The primary fuel is natural gas with No. 2 Fuel Oil as an emergency back-up fuel. The turbine engine generator will produce a maximum of 1,500 kW and 12,000 pounds of steam per hour.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hrs/yr.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. Gas Turbine Cogenerator No. 1 shall be subject to the provisions of 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, and 40 CFR 60, Subpart A - General Provisions.

3. The maximum heat input shall not exceed 25 x 10^6 Btu/hr of natural gas or No. 2 Fuel Oil.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

4. The maximum sulfur content of natural gas shall not exceed 1.0 grain per 100 cubic feet.
   [AO16-00225579]

5. Emissions of nitrogen oxides (NO_x) shall be limited as follows:

$$\mathbf{STD = 0.0150 \frac{(14.4)}{Y} + F}$$

Where:
STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis).
Y = manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.
F = NO_x emission allowance for fuel-bound nitrogen as defined in the following:

F shall be defined according to the nitrogen content of the fuel as follows:

Fuel-bound nitrogen (percent by weight)	F (NO_x percent by volume)
N<0.015	0
0.015<N<0.1	0.04 (N)
0.1<N<0.25	0.004+0.0067 (N-0.1)
N>0.25	0.005

Where: N = the nitrogen content of the fuel (percent by weight)
[40 CFR 60.332(a)(4), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

6. Emissions of sulfur dioxide in the discharge gases shall not exceed 0.015 percent by volume at 15 percent oxygen and on a dry basis.
[40 CFR 60.333(a), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

7. The sulfur content of the No. 2 Fuel Oil shall not exceed 0.8 percent by weight.
[40 CFR 60.333(b), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

8. VE shall not exceed 15 percent opacity.
[Rule 62-4.070, FAC, and Rule 2.1401, JEPB]

Test Methods and Procedures

9. Compliance with NO_x emission rate shall be computed for each run using the following equation:

$$\mathbf{NO_x = (NO_{xo})\,(P_r/P_o)^{0.5}\, e^{19(Ho-0.00633)}\,(288^oK/T_a)^{1.53}}$$

Where:
NO_x = emission rate of NO_x at 15 percent oxygen and ISO standard ambient conditions, volume percent.
NO_{xo} = observed NO_x concentration, ppm by volume.
P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.
P_o = observed combustor inlet absolute pressure at test, mm Hg.
H_o = observed humidity of ambient air, g H_2O/g air.
e = transcendental constant, 2.718.
T_a = ambient temperature, ^oK.
[40CFR60.335(b)(1), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

10. Fuel consumption shall be determined during each test run. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.
[40CFR60.335(c)(1), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

11. EPA RM 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The nitrogen content of the fuel being fired during the compliance test shall be determined from a sample taken on or about the day of the compliance test.
[40CFR60.335(a)(1), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

12. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity. Testing shall be conducted for a minimum period of 60 minutes.
    [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

13. Testing for nitrogen oxides, sulfur dioxide, and visible emissions (while firing natural gas) shall be conducted annually from the date of September 1, 2010.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

14. Testing for nitrogen oxides and sulfur dioxides (while firing No. 2 Fuel Oil) shall be conducted within 120 days prior to the permit expiration date.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

15. Testing for demonstration of compliance shall be performed in accordance with 40 CFR 60.335.

Monitoring of Operations

16. The fuel flow to the turbine and the turbine generator power output shall be metered and recorded a minimum of every 12 hours. Data shall be maintained for a minimum of five (5) years and made available to the Permitting Authority upon request.
    [Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]