



Environmental Protection and Growth Management Department
POLLUTION PREVENTION, REMEDIATION AND AIR QUALITY DIVISION – AIR QUALITY
One North University Drive, Suite 203, Plantation, Florida 33324

FINAL PERMIT

Permittee:

Holy Cross Hospital
4725 North Federal Highway
Fort Lauderdale, Florida 33308

Air Permit No. 0111019-006-AF

Project: Federally Enforceable State Operating
Permit (FESOP)

Effective Date: 9/13/2012

Expiration Date: 9/13/2017

Renewal Application Due Date: 7/15/2017

Facility:

Holy Cross Hospital
4725 North Federal Highway, Fort Lauderdale, Broward County, Florida
Latitude/longitude: Latitude: 26° 11' 13" North and Longitude: 80° 17' 13" West..
Standard Industrial Classification Code: 8062

Project Description: Operation of two steam boilers at an existing general medical and surgical hospital facility.
{Note. As of March 13, 2012, Holy Cross chose not to renew the permit for the operation of an existing hospital/medical/infectious waste incinerator and to obtain a permit only for the operation of two existing steam boilers}.

Statement of Basis: This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), Florida Administrative Code (F.A.C.) Rules 62-4 and 62-210 through 62-297 (permitting requirements) and Broward County Code, Chapter 27 (emission limitations) and in conformance with all existing regulations of the Florida Department of Environmental Protection (FDEP). 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 Broward County Pollution Prevention, Remediation and Air Quality Division (PPRAQD) and made a part hereof.

In Accordance with: Application received on March 22, 2012, Notice of Intent issued on June 13, 2012 and published on August 28, 2012 in the Broward Daily Business Review newspaper.

This permit is organized by the following sections.

1. Facility Description
2. General Conditions
3. Facility-wide Conditions
4. Emissions Unit Specific Conditions

Executed in Broward County, Florida

Daniela Banu

Air Quality Administrator

Broward County Pollution Prevention, Remediation and Air Quality Division

/SJ

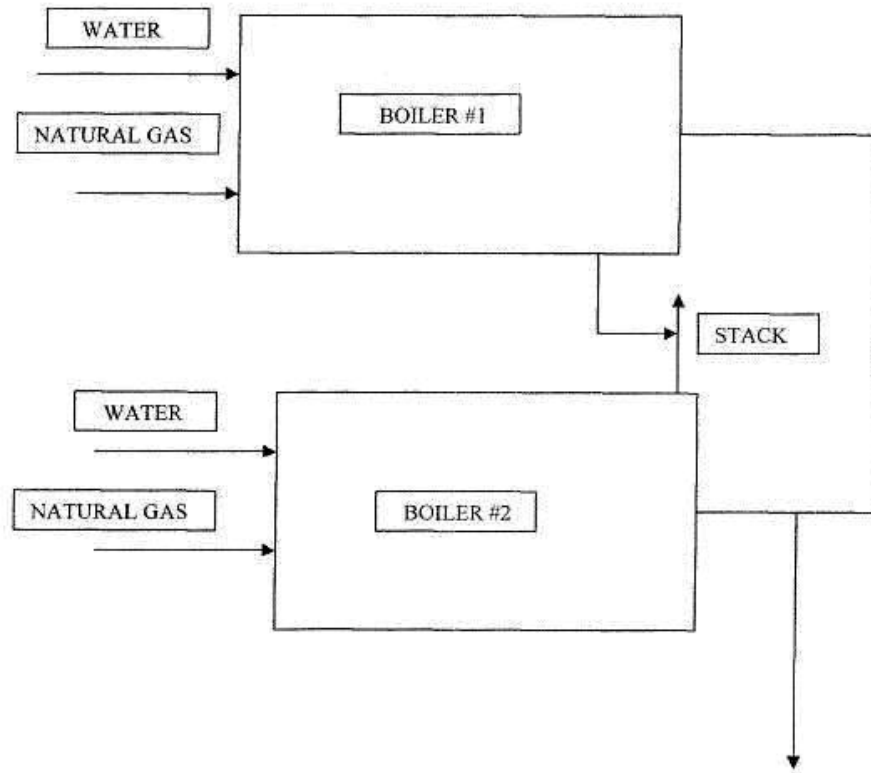
Broward County Board of County Commissioners

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1. FACILITY DESCRIPTION

Holy Cross Hospital which is located at 4725 North Federal Highway, Fort Lauderdale, Broward County, Florida operates two boilers as shown in the following figure:



Other of air pollution sources at this facility include: Five diesel engines for emergency generators and fire pumps, diesel storage tanks, cooling towers, hoods, sink drain vents, maintenance activities, parts washing, laundry, sterilizers, compressors, refrigeration system, and condensers. Air pollutants from this facility include: nitrogen oxides (NO_x), volatile organic compounds (VOC), and carbon monoxide (CO).

2. GENERAL CONDITIONS

(Rule 62-4.160, F.A.C.)

1. Terms of Permit. The terms, conditions, requirements, limitations and restrictions set forth herein are accepted and must be completed by the Permittee and enforceable by the PPRAQD pursuant to this Code and Sections 403.141, 403.727, or 403.859 through 403.861 of the Florida Statutes (F.S.). The Permittee is placed on notice that PPRAQD will review this permit periodically and may initiate administrative and/or judicial action for any violation of the conditions by the Permittee, its agents, employees, servants or representatives.
2. Permit Validity. 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 PPRAQD.
3. Disclaimer. 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 exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, or any violations of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other permit that may be required for other aspects of the total project which are not addressed in this permit.
4. Disclaimer. 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 interest have been obtained from the State of Florida. Only the Trustees of the Internal Improvement trust Fund may express State opinion as to title.
5. Liability. 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 Florida Statutes and FDEP rule, unless specifically authorized by an order from the PPRAQD.
6. Operation and Maintenance. 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 county and state rules. This provision included 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 PPRAQD and FDEP rules.
7. Onsite Inspection Activities. The Permittee, by accepting this permit, specifically agrees to allow authorized PPRAQD personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times (depending on the nature of the concern being investigated), 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 reasonably necessary to assure compliance with this permit or PPRAQD and DEP rules.
8. Notice of Noncompliance. 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 PPRAQD 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 enforcement action by PPRAQD for penalties or for revocation of this permit.

9. Evidence Materials. By 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 facility or activity, that are submitted to the PPRAQD, may be used by the PPRAQD as evidence in any enforcement proceeding arising under the Florida Statutes or F.A.C. rules, except where such use is prohibited by Section 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. Rule Changes. The Permittee agrees to comply with changes in Florida Department of Environmental Protection rules and Florida Statutes after a reasonable time for compliance; provided, however, the Permittee does not waive any other rights granted by Florida Statutes or DEP rules.
11. Permit Transfer. This permit is transferable only upon PPRAQD approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The Permittee shall be liable for any non-compliance of the permitted activity until the transfer approved by the PPRAQD.
12. Work Site Copy. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. Miscellaneous Compliance Requirements. The Permittee shall comply with the following:
 - (a) Upon request, the Permittee shall furnish all records and plans required under DEP rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the PPRAQD.
 - (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 recording 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 three years from the date of the sample, measurement, report, or application unless otherwise specified by PPRAQD 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;
 6. The results of such analyses.
14. Information Submittal. When requested by the PPRAQD, 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 PPRAQD, such facts or information shall be corrected promptly.
15. Reporting Noncompliance. The Permittee shall report any periods of noncompliance to the PPRAQD immediately by phone 954-519-1499 or by Email EPDHOTLINE@broward.org. This also applies when the period of non-compliance is first determined after normal business hours or on weekends and holidays.
16. Rules Adoption. Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, as amended, are adopted by Broward County Code, Sec. 27-173.

3. FACILITY-WIDE CONDITIONS

1. Capacity. The potential to emit (PTE) air pollutants at the source is 17 TPY NO_x from the boilers and the diesel engines.
[Rules 62-4.160(2), 62-210.200(PTE)]
{Permitting Note. The PTE of the engines (10 TPY NO_x) is based on 100 maintenance hours for each of the five diesel engines and Ap-42 combustion engines emission factor for NO_x. }
2. Diesel Engines for Emergency Generators and Fire Pumps. The owner or operator shall comply with all limitations and requirements of Subpart IIII that apply to the stationary compression ignition internal combustion engines.
[Rule 62-4.070(3), F.A.C.]
{Permitting Note. The owner or operator can comply with Subpart IIII by maintaining the manufacturer's certification for each engine, and operating and maintaining each engine according to manufacturer's written instruction or procedures over the entire life of the engine.}
{Permitting Note. Operation of the engines is limited to emergency situations and for testing/ maintenance.}
3. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.
[Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]
4. VOC or Organic Solvents Emissions. The owner or operator 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 PPRAQD.
[Rule 62-296.320(1) (a), F.A.C.]
5. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement.
[Rule 62-296.320(4) (b), F.A.C.]
6. Circumvention. No person shall circumvent any air pollution device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650, F.A.C.,]
7. (1) Concealment. No person shall build, erect, install, or use any article, machine, equipment or other contrivance, the use of which will conceal any emission which would otherwise constitute a violation of any provisions of Broward County Codes.
(2) Maintenance. No person shall operate any air pollution control equipment or systems without proper and sufficient maintenance to assure compliance with Broward County Codes.
[Broward County Code, Sec. 27-175(b)]
8. Operating Permit Renewal. Sixty days before the expiration date of this operation permit, the Permittee shall apply for a renewal of permit using the forms incorporated by reference in the specific rule chapter for this type of permit.
[Rule 62-4.090, F.A.C.]

{Permitting Note: The Permittee may also elect to submit the application electronically using the FDEP EPSAP software available at <http://www.dep.state.fl.us/air/emission/epsap/default.htm> website, along with the processing fee established in Rule 62-4.050(4), F.A.C. , [62-4.090(1) and 62-4.050(4), F.A.C.]}

4. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection A. This section addresses the following emission unit.

E.U. ID No.	Brief Description
004	Two (2) Steam Boilers

This emission unit consists of two York Shipley Model 576-SPH-250-N/2 Steam Boilers.

{Permitting Note: Both boilers were constructed before June 9, 1989 and are therefore exempt from 40 CFR 60, Subpart Dc. However, the boilers are subjected to Rule 62-296.406, F.A.C.}

Operation Limitations

A.1. Capacity. The emission unit consists of two York Shipley Model 576-SPH-250-N/2 steam boilers with the following specification for each boiler.

Approx. Boiler HP	250
Steam lbs/hr	8625
Heat input (MMBTU/hr)	10.5
Heat output (MMBTU/hr)	8.4
Natural gas rate (MMCF/hr)	0.01

[Rules 62-4.160(2) and 62.210.200(PTE), F.A.C., Boiler Specification Sheet]

A.2. Visible Emissions. Visible emissions from each boiler shall not exceed 20% opacity except for one six-minute period per hour during which opacity shall not exceed 27%.
[Rule 62-296.406(1), F.A.C., 0111019-004-AC]

A.3. Sulfur Dioxide / Particulate Matter Emissions (Best Available Technology). The owner or operator shall only use natural gas fuel to operate the boilers.
[Rule 62-296.406(2) & (3), F.A.C., 0111019-004-AC]

Test Method and Procedures

A.4. Frequency. Visible emission tests using EPA method 9 shall be conducted during each federal fiscal year (October 1 - September 30).
[Rule 62-297.310(7) & 297.401 (9) a., F.A.C.]

A.5. Operating Rate during Testing. VE testing shall be conducted with the boilers operating at the permitted capacity which is 90 to 100 percent of the maximum boiler natural gas consumption rated capacity (see Condition A.1). If it is impracticable to test at permitted capacity, the boilers may be tested at less than the permitted capacity; in this case, subsequent operation of the boiler is limited to 110 percent of the natural gas test rate until a new test is conducted. Once the boiler is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.
[Rule 62-297.310 (2), F.A.C.]

- A.6. Opacity Test Observation Period.** The required minimum period of observation for a compliance test shall be sixty (60) minutes. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310 (4), F.A.C., 0111019-004-AC]

Notification, Recordkeeping, and Reporting

- A.7. Compliance Test Notification.** The owner or operator shall notify PPRAQD 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.
[Rule 62-297.310(7) (a) 9, F.A.C.]
- A.8. Compliance Test Report Submittal.**
- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with PPRAQD on the results of each such test.
 - (b) The required test report shall be filed with PPRAQD as soon as practical but no later than 45 days after the test is completed.
 - (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow PPRAQD to determine if the test was properly conducted and the test results properly computed.
- [Rule 62-297.310(8) (a), (b), & (c), F.A.C.]
- A.9. Operating Capacity Records.** If the most recent visible emission testing was conducted below 90 percent of the maximum operation natural gas consumption rate (see Condition A.5), the owner or operator shall maintain records to demonstrate that the operating rate of the boiler did not exceed 110 percent of the test rate until a new test is conducted.
[Rule 62-4.070(3), F.A.C.]