TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

Florida Hospital Altamonte Facility
601 East Altamonte Drive
Altamonte Springs, Florida, 32701

Facility ID No. 1170362

PROJECT

Project No. 1170362-005-AO
Application for Minor Source Air Operation Permit
Project Name: Air Operation Permit Renewal

COUNTY

Seminole County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Waste and Air Resource Programs
Central District Office
Orlando, Florida 32803-3767

March 6, 2013

Prepared by Stephen Amirault

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction and air operation permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:

Mr. John Elkins, Administrative Director of Facilities
Florida Hospital
601 East Altamonte Drive
Altamonte Springs, Florida, 32701
john.elkins@flhosp.org

B. Application Contact:

Ms. Sara Greivell
Grove Scientific & Engineering Company, Inc.
6140 Edgewater Drive Suite F
Orlando, Florida 32810
sara@grovescientific.com

C. Project Location:

601 East Altamonte Drive
Altamonte Springs, Florida, 32701

D. Project Summary:

This is an Air Operation Permit Renewal to renew Operation Permit 1170362-004-AO.

D. Application Information:

Application Received on: 01/31/2013

a. "Air Operating Permit Renewal Application, Permit No. 117362-004-AO," dated January 28, 2013. Submitted by Grove Scientific & Engineering.
b. "Visible Emissions Test Report," dated January 28, 2013. Submitted by Grove Scientific & Engineering
c. Emission Summary dated February 28, 2013. Submitted by Grove Scientific & Engineering

Application Complete: 01/31/2013

III. PSD Applicability for Project

As provided in the application, the total project emissions will not exceed the PSD significant emission rates; therefore, the project is not subject to the PSD preconstruction review.

II. Rule Applicability

This project is subject to the requirements of Chapter 403, Florida Statutes, and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N	Comments
Rule 62-210.300, F.A.C. – Stationary Source, General Requirements	Y	Not exempt from general permitting requirements
Rule 62-212.400, F.A.C. – Prevention of Significant Deterioration	N	Facility is not a PSD major source
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	N	Operations of boilers and emergency generators could be a source of unconfined particulate matter emissions.

Subject to:	Y/N	Comments
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	N	There is no applicable source category.
Rule 62-296.400, F.A.C. - Stationary Source Emission Standards	Y	Boilers are subject to 62-296.406, F.A.C. – Fossil Fuel Steam Generators.
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Seminole County is an attainment area for ozone.
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	N	One of the boilers is subject to 40 CFR 60 Subpart A and 40 CFR 60 Subpart Dc- Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	There is no applicable source category.
Rule 62-213, F.A.C. – Operation Permits for Major Source of Air Pollution	N	Facility is a natural minor source.

III. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions(tons per year)	Allowable Emissions (tons per year)
PM	EU 002 – Three Steam Boilers	1.2	1.2
	EU 003 – Three Emergency Generators	0.43	0.43
	Total	**1.63**	**1.63**
PM10	EU 002 – Three Steam Boilers	0.9	0.9
	EU 003 – Three Emergency Generators	0.43	0.43
	Total	**1.33**	**1.33**
NOx	EU 002 – Three Steam Boilers	15.82	15.82

Pollutant	EU No. and brief description	Potential Emissions(tons per year)	Allowable Emissions (tons per year)
NOx	EU 003 – Three Emergency Generators	13.84	13.84
	Total	**29.66**	**29.66**
SO2	EU 002 – Three Steam Boilers	0.09	0.09
	EU 003 – Three Emergency Generators	0.22	0.22
	Total	**0.31**	**0.31**
CO	EU 002 – Three Steam Boilers	13.29	13.29
	EU 003 – Three Emergency Generators	3.68	3.68
	Total	**16.97**	**16.97**
VE	EU 003 – Three Steam Boilers		Less than 20 percent (20%) opacity, except for one 2-minute period per hour during which the opacity shall not exceed 40 percent (40)%.
	EU 003 – Three Emergency Generators		Less than 20 percent (20%) opacity

Note: Emissions from EU 003 – Three Emergency Generators are based on 500-hours of operation per any consecutive 12-month period. The permittee has accepted these limits in order to classify the facility as a synthetic minor source of emissions.

IV. Federal NSPS and/or NESHAP Provisions

Boiler No. 3 is subject to 40 CFR 60 Subpart A and 40 CFR 60 Subpart Dc- Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, applicable to a steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 100 MMBtu/hr or less, but greater than or equal 10 MMBtu/hr.

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V. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VI. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the final permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the permit. Additional details of this analysis may be obtained by contacting the project engineer, Stephen Amirault, at the Florida Department of Environmental Protection, Waste & Air Resource Programs, Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767, by e-mail at DEP_CD@dep.state.fl.us or by phone at 407/897-4100.