Bayfront Medical Center, Inc.
Bayfront Medical Center Special Services

Facility ID No. 1030095
Pinellas County

Title V Air Operation Permit Renewal

Permit No. 1030095-006-AV
(Renewal of Title V Air Operation Permit No. 1030095-004-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Air Resource Management, Southwest District

13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Telephone: (813) 632-7600
Fax: (813) 632-7668

Compliance Authority:

Pinellas County Air Quality Division

300 South Garden Avenue
Clearwater, FL 33756

Telephone: 727/464-4422
Fax: 727/464-4420

Title V Air Operation Permit Renewal

Permit No. 1030095-006-AV

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DRAFT/PROPOSED PERMIT

PERMITTEE:
Bayfront Medical Center, Inc.
750 5th Avenue South
St. Petersburg, Florida 33701-4891

Permit No. 1030095-006-AV
Bayfront Medical Center Special Services
Facility ID No. 1030095
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility and to incorporate new regulatory requirements. The Bayfront Medical Center Special Services is located in Pinellas County at 701 6th Street South, St. Petersburg, Florida. UTM Coordinates are: Zone 17, 338.04 East and 3072.12 North. Latitude is: 27º 45' 49.6" North; and, Longitude is: 82º 38' 36.7" West.

The 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. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: DATE, 2012
Renewal Application Due Date: Exp. DATE -225
Expiration Date: Eff. DATE + 5 years

(Draft/Proposed)

_____

Robert C. Wong
Air Program Administrator
Southwest District

RCW/nek

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

Bayfront Medical Center, Inc. operates a hospital/medical/infectious waste incinerator and a boiler at the Bayfront Medical Center. Hospital/medical/infectious waste is received from this hospital and other medical facilities and is fed through the incinerator. Ash from the incinerator is tested and taken to a Class I landfill.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
002	Hospital/Medical/Infectious Waste Incinerator
003	Boiler
004	Existing Emergency Stationary Compression Ignition (CI) RICE Engine ≤ 500 HP

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received June 1, 2011, this facility is NOT a major source of hazardous air pollutants (HAP). A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 CFR 60, Subpart A, NSPS General Provisions	002, 003
40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	003
40 CFR 60, Subpart Ec - Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996 (specific sections applicable as established in Rule 62-204.800(9)(d) and (g), F.A.C., Emission Guidelines and Compliance Times for Hospital/Medical/Infections Waste Incinerators)	002
Rules 62-204.800(9)(d) and (g), F.A.C., Emission Guidelines and Compliance Times for Hospital/Medical/Infections Waste Incinerators (emission guidelines established in accordance with 40 CFR 60, Subpart Ce - Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators)	002
40 CFR 63, Subpart A, NESHAP General Provisions	004
40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines	004
Rule 62-296.401, F.A.C., Incinerators	002
Rule 62-296.406 F.A.C., Fossil Fuel Steam Generators with Less Than 250 Million Btu Per Hour Heat Input, New and Existing Emissions Units	003
Best Available Control Technology (BACT) requirements	003
Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C.	All

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices - The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated.
[Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable - 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.; Pinellas County Code, Section 58-178]

FW3. General 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 or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1), F.A.C.]

(Permitting Note: Nothing is deemed necessary and ordered at this time.)

FW4. 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)1, F.A.C.]

FW5. Unconfined Particulate Matter - No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter 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 to prevent emissions of unconfined particulate matter at this facility include:

a. Paving and maintenance of roads, parking areas and yards, when necessary.

b. Application of water or non-hazardous chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.

c. Application of water or non-hazardous 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 to prevent entrainment, and from buildings or work areas to prevent particulates 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. Confine abrasive blasting where possible.

[Rule 62-296.320(4)(c), F.A.C.; proposed by applicant in Title V air operation permit renewal application received 06/01/11.]

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

FW6. Annual Operating Report - The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year.
[Rule 62-210.370(3), F.A.C.]

FW7. 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, F.A.C.]

FW8. Annual Statement of Compliance - The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective.
[Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

FW9. Prevention of Accidental Releases (Section 112(r) of CAA). If and when the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. 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.

b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
002	This emissions unit is a Joy Energy Systems Model 1500 TE (Serial No. 15-TE-91-20) hospital/medical/infectious waste incinerator (HMIWI) with a rated capacity of 1,500 lbs/hour. The incinerator began construction in 1992. The unit includes primary and secondary combustion chambers and a waste heat boiler. Hospital/medical/infectious waste is weighed and then fed into the primary combustion chamber via a mechanical semi-continuous feeder which includes an airlock for safety. Incineration of the waste occurs in the primary chamber at approximately 1,400º F where combustion is assisted by a 0.76 MMBtu/hour propane or natural gas fired burner. Ash residue is removed from the primary chamber by an ash handling system. The hot gases from the primary chamber are routed through the secondary chamber where the temperature is maintained above 1,800º F for at least one second. This temperature is maintained by a 4.58 MMBtu/hour propane or natural gas fired burner. During malfunctions the gases from the secondary chamber are vented through the incinerator's dump (bypass) stack and waste feed to the incinerator will cease. During normal operation, startup and shutdown the gases exiting the secondary chamber flow through a boiler to capture waste heat in the combustion gases. The boiler is a Superior Boilers, Inc., (Mohawk Model No. 4WH-1505L-9150M, Serial No. 11653). Flue gas from the boiler passes through a Calvert Flux Force/Condensation Collision scrubber system (Model No. FC, Serial No. 1280) where particulate matter and acid gas emissions are removed. The exhaust gases from the scrubber exit through a circular stack.

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity - The burning rate (actual waste charged in any 1-hour period, which is considered as any 60- minute period) of the HMIWI shall not exceed 1,500 pounds per hour.

(Permitting Note: See the Appendix TR, Facility-wide Testing Requirements, Condition TR2. for operating rate limitations that may be established based on operating rate during compliance testing.)

[Rules 62-4.160(2) and 62-210.200 ("Potential to Emit"), F.A.C.]

A.2. Radioactive and Hazardous Waste - This HMIWI shall be operated so as to comply with the following requirements:

a. The permittee is advised to contact the Department of Health regarding requirements that may apply to any proposed burning of radioactive waste.

b. The permittee is advised to contact the Department's Division of Waste Management regarding requirements that may apply to any proposed burning of hazardous waste.

[Rules 62-204.800(9)(g)11. and 62-296.401(4)(c), F.A.C.; Construction Permit AC52-189392]

A.3. Methods of Operation: Fuels - This emission unit is allowed to burn items and materials that fall within the definitions of hospital waste and/or medical/infectious waste contained in 40 CFR 60.51c (Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996 - Definitions). The only auxiliary fuel authorized to be burned in this incinerator is natural gas or propane.
[Rules 62-4.160(2), 62-4.070(3), 62-210.200, and 62-213.440(1), F.A.C.; NSPS 40 CFR, Subpart Ec § 60.51c]

A.4. Hours of Operation - The HMIWI is allowed to operate (burn waste material) a maximum of 7,300 hours/year.
[Rule 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit AC52-189392]

A.5. Required Chamber Temperatures - During the burning of waste in the HMIWI, the permittee shall demonstrate via temperature probe placement at the exit of the primary and secondary chambers that the combustion gas temperature is no less than 1,400° F and 1,800° F, respectively. The secondary chamber, during the burning of waste, shall not operate with a gas residence time of less than 1.0 second. The primary chamber and stack volumes shall not be used in calculating this residence time.
[Rule 62-296.401(4)(c)1., F.A.C.; Construction Permit AC52-189392]

A.6. Loading System Requirements - Mechanically fed units shall incorporate an air lock system to prevent opening the HMIWI to the room environment. The volume of the loading system shall be designed to prevent overcharging, thereby assuring complete combustion of the waste.
[Rule 62-296.401(4)(c)2., F.A.C.; Construction Permit AC52-189392]

A.7. Incineration Requirements - Incineration or ignition of waste in the HMIWI shall not begin until the secondary (or last) combustion chamber temperature has reached the minimum required operating temperature of 1,800° F. The secondary (or last) combustion chamber temperature requirement shall be maintained until the wastes are completely combusted. All air pollution control and continuous emission monitoring equipment shall be operational and functioning properly prior to the incineration or ignition of waste and until all the wastes are combusted.
[Rule 62-296.401(4)(c)3., F.A.C.; Construction Permit AC52-189392]

Emission Limitations and Standards

(Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.)

Unless otherwise specified, the averaging times for Specific Conditions A.8. - A.9. are based on the specified averaging time of the applicable test method.

A.8. Emissions Limitations – Emissions from the HMIWI exhaust stack are limited as follows from the issuance date of this permit through May 31, 2014.

Pollutant	Emissions limits	Units (7 percent oxygen, dry basis)
Particulate matter[1,2]	25 (0.011)	Milligrams per dry standard cubic meter (mg/dscm) (grains per dry standard cubic foot (gr/dscf))
Carbon monoxide[2]	40	Parts per million by volume (ppmv)
Dioxins/furans	125 (55) **or** 2.3 (1.0)	Nanograms per dry standard cubic meter total dioxins/furans (ng/dscm) (grains per billion dry standard cubic feet (gr/10^9dscf)) ng/dscm TEQ (gr/10^9dscf)
Hydrogen chloride[1,2]	6.6	ppmv
Sulfur dioxide	55	ppmv
Nitrogen oxides[1]	140	ppmv
Lead	1.2 (0.52)	mg/dscm (grains per thousand dry standard cubic feet (gr/10^3dscf))
Cadmium[1]	0.0092 (0.0040)	mg/dscm (gr/10^3dscf)
Mercury[1]	0.018 (0.0079)	mg/dscm (gr/10^3dscf)
Visible Emissions[1,2]	≤6%	Opacity

[1] These are the new emission limits in effect as of June 1, 2012, from the Emission Guideline 40 CFR §60.33e (a)(2) & (c)(2) as referenced in Rule 62-204.800(9)(g), F.A.C. The compliance testing in October 2011 showed the facility met these limits.

[2] These limits are more stringent than those in 62-296.401(4), F.A.C. Demonstration of compliance with these limits will also be considered as demonstration of compliance with Rule 62-296.401(4), F.A.C.

[Rule 62-296.401(4), F.A.C.; Emission Guideline 40 CFR §60.33e (a)(1) & (c)(1) as referenced in Rule 62-204.800(9)(d), F.A.C.]

A.9. Emissions Limitations – Emissions from the HMIWI exhaust stack are limited as follows beginning June 1, 2014.

Pollutant	Emissions limits	Units (7 percent oxygen, dry basis)
Particulate matter[1]	25 (0.011)	Milligrams per dry standard cubic meter (mg/dscm) (grains per dry standard cubic foot (gr/dscf))
Carbon monoxide[1]	11	Parts per million by volume (ppmv)
Dioxins/furans	9.3 (4.1) 0.054 (0.024)	Nanograms per dry standard cubic meter total dioxins/furans (ng/dscm) (grains per billion dry standard cubic feet (gr/10^9dscf)) **or** ng/dscm TEQ (gr/10^9dscf)
Hydrogen chloride[1]	6.6	ppmv
Sulfur dioxide	9.0	ppmv
Nitrogen oxides	140	ppmv
Lead	0.036 (0.016)	mg/dscm (grains per thousand dry standard cubic feet (gr/10^3dscf))
Cadmium	0.0092 (0.0040)	mg/dscm (gr/10^3dscf)
Mercury	0.018 (0.0079)	mg/dscm (gr/10^3dscf)
Visible Emissions[1]	≤6%	Opacity

[1] These limits are more stringent than those in 62-296.401(4), F.A.C. Demonstration of compliance with these limits will also be considered as demonstration of compliance with Rule 62-296.401(4), F.A.C.

[Emission Guideline 40 CFR §60.33e (a)(2) & (c)(2) as referenced in Rule 62-204.800(9)(g), F.A.C.]

Operator Training and Qualification

A.10. Hospital/ Medical/ Infectious Waste Incinerator (HMIWI) Training and Qualification Requirements – The permittee shall comply with the following training and qualification requirements:

a. The permittee shall NOT allow the facility to operate at any time unless a fully trained and qualified HMIWI operator is accessible, either at the facility or available within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.

b. Operator training and qualification shall be obtained through a State-approved program or by completing the requirements included in paragraphs c. through g. of this Specific Condition.

c. Training shall be obtained by completing an HMIWI operator training course that includes, at a minimum, the following provisions:

(1) 24 hours of training on the following subjects:

(a) Environmental concerns, including pathogen destruction and types of emissions;

(b) Basic combustion principles, including products of combustion;

(c) Operation of the type of incinerator to be used by the operator, including proper startup, waste charging, and shutdown procedures;

(d) Combustion controls and monitoring;

(e) Operation of air pollution control equipment and factors affecting performance;

(f) Methods to monitor pollutants (continuous emission monitoring systems and monitoring of HMIWI and air pollution control device operating parameters) and equipment calibration procedures (where applicable);

(g) Inspection and maintenance of the HMIWI, air pollution control devices, and continuous emission monitoring systems;

(h) Actions to correct malfunctions or conditions that may lead to malfunction;

(i) Bottom and fly ash characteristics and handling procedures;

(j) Applicable Federal, State, and local regulations;

(k) Work safety procedures;

(l) Pre-startup inspections; and

(m) Recordkeeping requirements.

(2) An examination designed and administered by the instructor.

(3) Reference material distributed to the attendees covering the course topics.

d. Qualification shall be obtained by:

(1) Completion of a training course that satisfies the criteria under paragraph c. of this Specific Condition; and

(2) Either 6 months experience as an HMIWI operator, 6 months experience as a direct supervisor of an HMIWI operator, or completion of at least two burn cycles under the observation of two qualified HMIWI operators.

e. Qualification is valid from the date on which the examination is passed or the completion of the required experience, whichever is later.

f. To maintain qualification, the trained and qualified HMIWI operator shall complete and pass an annual review or refresher course of at least 4 hours covering, at a minimum, the following:

(1) Update of regulations;

(2) Incinerator operation, including startup and shutdown procedures;

(3) Inspection and maintenance;

(4) Responses to malfunctions or conditions that may lead to malfunction; and

(5) Discussion of operating problems encountered by attendees.

g. A lapsed qualification shall be renewed by one of the following methods:

(1) For a lapse of less than 3 years, the HMIWI operator shall complete and pass a standard annual refresher course described in paragraph f. of this section.

(2) For a lapse of 3 years or more, the HMIWI operator shall complete and pass a training course with the minimum criteria described in paragraph c. of this section.

h. The permittee shall maintain documentation at the facility that addresses the following:

(1) Summary of the applicable standards under this subpart;

(2) Description of basic combustion theory applicable to an HMIWI;

(3) Procedures for receiving, handling, and charging waste;

(4) HMIWI startup, shutdown, and malfunction procedures;

(5) Procedures for maintaining proper combustion air supply levels;

(6) Procedures for operating the HMIWI and associated air pollution control systems within the standards established under this subpart;

(7) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;

(8) Procedures for monitoring HMIWI emissions;

(9) Reporting and recordkeeping procedures; and

(10) Procedures for handling ash.

i. The permittee shall establish a program for reviewing the information listed in paragraph h. of this Specific Condition annually with each HMIWI operator (defined in NSPS 40 CFR 60, Subpart Ec §60.51c).

(1) The initial review of the information listed in paragraph h. of this Specific Condition shall be conducted within 6 months after the effective date of this subpart (May 4, 2011) or prior to assumption of responsibilities affecting HMIWI operation, whichever date is later.

(2) Subsequent reviews of the information listed in paragraph h. of this Specific Condition shall be conducted annually.

j. The information listed in paragraph h. of this Specific Condition shall be kept in a readily accessible location for all HMIWI operators. This information, along with records of training shall be available for inspection by the Permitting and Compliance Authorities upon request.

[NSPS 40 CFR 60, Subpart Ec §60.53c as referenced in Rules 62-204.800(9)(d) and (g)4. and 9.a.; Rule 62-296.401(4)(c)6., F.A.C.]

A.11. Training After Modification - If the HMIWI is modified to the extent that a Department construction permit is required, the operators shall be retrained to operate the modified incinerator.
[Rule 62-296.410(4)(c)6.a., F.A.C.]

A.12. Training Records Retention – A HMIWI operator's training certificate must be kept on file at the facility for the duration of the operator's employment and for an additional two (2) years after termination of

employment. The owner shall not allow the HMIWI to be operated unless it is operated by an operator who has satisfactorily completed the required training program.
[Rule 62-296.410(4)(c)6.b., F.A.C.]

Waste Management Plan

A.13. Waste Management Plan - The permittee shall prepare a waste management plan. The waste management plan:

a. Shall identify both the feasibility and the approach to separate certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste.

b. May include, but is not limited to, elements such as segregation and recycling of paper, cardboard, plastics, glass, batteries, food waste, and metals (*e.g.*, aluminum cans, metals-containing devices); segregation of non-recyclable wastes (*e.g.*, polychlorinated biphenyl-containing waste, pharmaceutical waste, and mercury-containing waste, such as dental waste); and purchasing recycled or recyclable products.

c. May include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream.

d. Should identify, where possible, reasonably available additional waste management measures, taking into account the effectiveness of waste management measures already in place, the costs of additional measures, the emissions reductions expected to be achieved, and any other environmental or energy impacts they might have.

e. The American Hospital Association publication entitled "An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities" shall be considered in the development of the waste management plan. The owner or operator of each commercial HMIWI company shall conduct training and education programs in waste segregation for each of the company's waste generator clients and ensure that each client prepares its own waste management plan that includes, but is not limited to, the provisions listed previously in this section.

[NSPS 40 CFR 60, Subpart Ec §60.55c as referenced in Rules 62-204.800(9)(d) and (g)5., F.A.C.]

Equipment Inspection Requirements

A.14. Equipment Inspection Requirements - An initial equipment inspection shall be conducted by June 1, 2012.

a. At a minimum, an inspection shall include the following:

(1) Inspect all burners, pilot assemblies, and pilot sensing devices for proper operation; clean pilot flame sensor, as necessary;

(2) Ensure proper adjustment of primary and secondary chamber combustion air, and adjust as necessary;

(3) Inspect hinges and door latches, and lubricate as necessary;

(4) Inspect dampers, fans, and blowers for proper operation;

(5) Inspect HMIWI door and door gaskets for proper sealing;

(6) Inspect motors for proper operation;

(7) Inspect primary chamber refractory lining; clean and repair/replace lining as necessary;

(8) Inspect incinerator shell for corrosion and/or hot spots;

(9) Inspect secondary/tertiary chamber and stack, clean as necessary;

(10) Inspect mechanical loader, including limit switches, for proper operation, if applicable;

(11) Visually inspect waste bed (grates), and repair/seal, as appropriate;

(12) For the burn cycle that follows the inspection, document that the incinerator is operating properly and make any necessary adjustments;

(13) Inspect the wet scrubber and any other air pollution control device(s) for proper operation;

(14) Inspect waste heat boiler systems to ensure proper operation;

(15) Inspect bypass stack components;

(16) Ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment; and

(17) Generally observe that the equipment is maintained in good operating condition.

b. Within 10 operating days following an equipment inspection all necessary repairs shall be completed unless the owner or operator obtains written approval from the Permitting Authority establishing a date whereby all necessary repairs of the designated facility shall be completed.

c. The HMIWI shall undergo an equipment inspection annually (no more than 12 months following the previous annual equipment inspection), as outlined in this Specific Condition.

(Permitting Note: See Specific Condition No. A.42.k. for recordkeeping requirements.)

[Emission Guideline 40 CFR §60.36e(a) and (b) as referenced in Rule 62-204.800(9)(g)6., F.A.C.]

A.15. Air Pollution Control Device Inspection - An initial HMIWI control device inspection shall be conducted by June 1, 2012.

a. At a minimum, an inspection shall include the following:

(1) Inspect wet scrubber for proper operation.

(2) Ensure proper calibration of thermocouples, sorbent feed systems, and any other monitoring equipment; and

(3) Generally observe that the equipment is maintained in good operating condition.

b. Within 10 operating days following an air pollution control device inspection, all necessary repairs shall be completed unless the permittee obtains written approval from the Compliance Authority establishing a date whereby all necessary repairs shall be completed.

c. The air pollution control device shall undergo an inspection annually (no more than 12 months following the previous annual air pollution control device inspection) as outlined in this Specific Condition.

(Permitting Note: See Specific Condition No. A.42.k. for recordkeeping requirements.)

[Emission Guideline 40 CFR §60.36e(c) & (d) as referenced in Rule 62-204.800(9)(g)6., F.A.C.]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

A.16. Excess Emissions -The emission limits of Specific Condition Nos. A.8. and A.9. (as applicable) apply at all times.
[NSPS 40 CFR 60, Subpart Ec §60.56c(a) as referenced in Rule 62-204.800(9)(g)7.a., F.A.C.]

A.17. Excess Emissions Prohibited - 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.18. Wet Scrubber Operation - Except as provided in Specific Condition Nos. A.33. and A.34. (repeat compliance testing), the following activities shall constitute a violation of the specific emission limitation:

a. Operation of the affected facility above the maximum charge rate and below the minimum pressure drop across the wet scrubber or below the minimum horsepower or amperage to the system (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the PM emission limit.

b. Operation of the affected facility above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the CO emission limit.

c. Operation of the affected facility above the maximum charge rate, below the minimum secondary chamber temperature, and below the minimum scrubber liquor flow rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the dioxin/furan emission limit.

d. Operation of the affected facility above the maximum charge rate and below the minimum scrubber liquor pH (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the HCl emission limit.

e. Operation of the affected facility above the maximum flue gas temperature and above the maximum charge rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the Hg emission limit.

f. Use of the bypass stack shall constitute a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emissions limits.

(Permitting Note: Maximum charge rate is defined as - For continuous and intermittent HMIWI, 110 percent of the lowest 3-hour average charge rate measured during the most recent performance test demonstrating compliance with all applicable emission limits.)

[NSPS 40 CFR 60, Subpart Ec §60.56c(f) as referenced in Rule 62.204.800(9)(g)7.a., F.A.C.]

Monitoring of Operations

(Permitting Note: This section has been tailored based on the equipment the facility has as of the issue date. If additional monitoring systems are installed, additional requirements will apply.)

A.19. Bypass Stack Monitoring - The permittee shall install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the HMIWI bypass stack including date, time, and duration.
[NSPS 40 CFR 60, Subpart Ec §60.57c(c) as referenced in Rule 62-204.800(9)(g)7.b., F.A.C.]

A.20. HMIWI and Emission Control Device Operating Parameter Requirements - The permittee shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum HMIWI and scrubber emission control device operating parameters listed in Appendix OP-1 such that these devices (or methods) measure and record values for these operating parameters at the frequencies indicated in Appendix OP-1 at all times.
[NSPS 40 CFR 60, Subpart Ec §60.57c(a) as referenced in Rule 62-204.800(9)(d) and (g)7.b., F.A.C.]

A.21. Operations Monitoring -The permittee shall obtain HMIWI and scrubber emission control device monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste.
[NSPS 40 CFR 60, Subpart Ec §60.57c(e) as referenced by Rule 62-204.800(9)(g)7.b., F.A.C.;]

A.22. Wet Scrubber Emission Control Device Monitoring - The permittee shall:

a. Establish the appropriate maximum and minimum operating parameters, indicated in Appendix OP-1 for each control system, as site specific operating parameters during the initial performance test to determine compliance with the emission limits; and

b. Following the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, ensure that the affected facility does not operate above any of the applicable maximum operating parameters or below any of the applicable minimum operating parameters listed in Appendix OP-1 and measured as 3-hour rolling averages (calculated each hour as the average of the previous 3 operating hours) at all times except during periods of startup, shutdown and malfunction. Operating parameter limits do not apply during performance tests. Operation above the established maximum or below the established minimum operating parameter(s) shall constitute a violation of established operating parameter(s).

[NSPS 40 CFR 60, Subpart Ec §60.56c(d) as referenced in Rule 62-204.800(9)(g)7.b., F.A.C.]

A.23. Continuous Emissions Monitoring Requirements – The permittee shall install, operate, and maintain, in accordance with the manufacturer's instructions, continuous emission monitoring equipment as required below. A list of the continuous monitoring equipment is in the attached Table E., Equipment Monitored.

a. The monitors shall record the following operating parameters:

(1) Secondary (or last) combustion chamber exit temperature.

(2) Oxygen (for facilities with a capacity greater than 500 pounds per hour).

b. The permittee shall maintain a complete file of all measurements, including continuous emissions monitoring system, monitoring device, and compliance testing measurements; all continuous emissions monitoring system performance evaluations; all continuous emissions monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required, recorded in a permanent legible form available for inspection. The file shall be retained for at least two (2) years following the date of such measurements, maintenance, reports and records.

[Rule 62-296.401(4)(f), F.A.C.; Construction Permit AC52-189392]

A.24. Accuracy of Equipment -Temperature and oxygen sensors and recorders shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the parameter to be determined within 10% of its true value. Scales used to determine process (waste charging) rate shall be calibrated and adjusted to indicate the true weight of the waste to be incinerated with sufficient accuracy to allow the weight to be determined within 10% of its true value.
[Rules 62-4.070(3) and 62-297.310(5)(b), F.A.C.]

Compliance Test Methods and Procedures

(Permitting Notes: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

This section has been tailored based on the equipment the facility has of the issue date. If a continuous emissions monitor or bag leak detection or continuous automated sampling system is installed see additional requirements in NSPS 40 CFR 60, Subpart Ec §60.56c.)

A.25. Common Compliance Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

A.26. Compliance Test Procedures – The emission compliance tests, except for visible emissions testing, shall comply with the following procedures, as applicable:

a. All compliance tests shall consist of a minimum of three test runs conducted under representative operating conditions.

b. The minimum sample time shall be 1 hour per test run unless otherwise indicated.

c. The pollutant concentrations shall be adjusted to 7 percent oxygen using the following equation:

$C_{adj}=C_{meas}(20.9-7)/(20.9-\%O_2)$

where:

C_{adj}=pollutant concentration adjusted to 7 percent oxygen;

C_{meas}=pollutant concentration measured on a dry basis (20.9−7)=20.9 percent oxygen—7 percent oxygen (defined oxygen correction basis);

20.9=oxygen concentration in air, percent; and

$\%O_2$=oxygen concentration measured on a dry basis, percent.

d. The use of the bypass stack during a compliance test shall invalidate the compliance test.

[NSPS 40 CFR 60, Subpart Ec §60.56c(b) as referenced in Rule 62-204.800(9)(g)7.a., F.A.C.]

A.27. Compliance Test Methods - Required compliance tests shall be performed in accordance with the following reference methods:

a. EPA Reference Method 1 shall be used to select the sampling location and number of traverse points.

b. EPA Reference Method 3, 3A, or 3B shall be used for gas composition analysis, including measurement of oxygen concentration. EPA Reference Method 3, 3A, or 3B shall be used simultaneously with each of

the other EPA reference methods. As an alternative to EPA Reference Method 3B, ASME PTC–19–10–1981–Part 10 may be used.

c. EPA Reference Method 5 or Method 26A or Method 29 shall be used to measure the particulate matter emissions.

d. EPA Reference Method 7 or 7E shall be used to measure NO_X emissions.

e. EPA Reference Method 6 or 6C shall be used to measure SO_2 emissions.

f. EPA Reference Method 9 shall be used to measure stack opacity.

g. EPA Reference Method 10 or 10B shall be used to measure the CO emissions.

h. EPA Reference Method 23 shall be used to measure total dioxin/furan emissions. The minimum sample time shall be 4 hours per test run. If the affected facility has selected the toxic equivalency standards for dioxins/furans, under §60.52c, the following procedures shall be used to determine compliance:

(1) Measure the concentration of each dioxin/furan tetra-through octa-congener emitted using EPA Reference Method 23.

(2) For each dioxin/furan congener measured in accordance with Specific Condition A.27.h.(1), multiply the congener concentration by its corresponding toxic equivalency factor specified in Table 2 of 40 CFR 60, Subpart Ec.

(3) Sum the products calculated in accordance with Specific Condition A.27.h.(2), to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.

i. EPA Reference Method 26 or 26A shall be used to measure HCl emissions.

j. EPA Reference Method 29 shall be used to measure Pb, Cd, and Hg emissions. As an alternative, Hg emissions may be measured using ASTM D6784–02.

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rule 62-297.401, F.A.C. and NSPS 40 CFR 60, Subpart Ec §60.56c(b) as referenced in Rule 62-204.800(9)(d) and (g), F.A.C.]

A.28. Initial Compliance Testing Required – By June 1, 2014 , the permittee shall conduct an initial performance test as required in NSPS Subpart A 40 CFR 60.8 to determine compliance with the emission limits for each pollutant in Specific Condition A.9. *(See Specific Condition A.29. for using previous testing to show initial compliance.)*
[NSPS 40 CFR 60, Subpart Ec §60.56c(b) as referenced in Rule 62-204.800(9)(g), F.A.C.]

A.29. Previous Testing to Show Initial Compliance - Results of previous emissions tests may be used to demonstrate initial compliance with the emissions limits in Specific Condition No. A.9., provided that the conditions in subparagraphs a.- c. below are met:

a. The designated facility's previous emissions tests must have been conducted using the applicable procedures and test methods listed in §60.56c(b) of 40 CFR 60, Subpart Ec - Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996. Previous emissions test results obtained using EPA-accepted voluntary consensus standards are also acceptable.

b. The hospital/medical/infections waste incinerator (HMIWI) at the designated facility shall currently be operated in a manner (*e.g.*, with charge rate, secondary chamber temperature, *etc.*) that would be expected to result in the same or lower emissions than observed during the previous emissions test(s), and the HMIWI may not have been modified such that emissions would be expected to exceed (notwithstanding normal test-to-test variability) the results from previous emissions test(s).

c. The previous emissions tests must have been conducted in 1996 or later.

[Emission Guideline 40 CFR §60.37e(f) as referenced in Rule 62-204.800(9)(g), F.A.C.]

A.30. Annual Compliance Tests Required - Annual compliance testing is required as follows:

a. Opacity - a compliance test for opacity shall be conducted on an annual basis (no more than 12 months following the previous compliance test) using the test method specified in Specific Condition A.27.

b. Particulate Matter (PM), Carbon Monoxide (CO), and Hydrochloric Acid (HCl)- an annual compliance test (no more than 12 months following the previous compliance test) shall be conducted using the applicable procedures and test methods listed in Specific Condition A.27. If all three compliance tests over a 3-year period indicate compliance with the emissions limit for a pollutant (PM, CO, or HCl), the owner or operator may forego a compliance test for that pollutant for the subsequent 2 years. At a minimum, a compliance test for PM, CO, and HCl shall be conducted every third year (no more than 36 months following the previous compliance test). If a compliance test conducted every third year indicates compliance with the emissions limit for a pollutant (PM, CO, or HCl), the owner or operator may forego a compliance test for that pollutant for an additional 2 years. If any compliance test indicates noncompliance with the respective emissions limit, a compliance test for that pollutant shall be conducted annually until all annual compliance tests over a 3-year period indicate compliance with the emissions limit. The use of the bypass stack during a compliance test shall invalidate the compliance test.

[NSPS 40 CFR 60, Subpart Ec §60.56c(c) as referenced in Rules 62-204.800(9)(g) and 62-297.310(7), F.A.C.]

A.31. Compliance Testing for Mercury, Cadmium and Lead - On or after June 1, 2012, any time a compliance test for any reason for particulate matter is conducted, the owner or operator shall also conduct a compliance test for mercury, cadmium, and lead. Testing shall be conducted in accordance with the applicable test procedures and methods set forth at 40 CFR §60.56c(b), and test data shall be reported to the Department in accordance with the provisions of 40 CFR §60.58c(c). This requirement for supplemental metals testing shall not apply if the owner or operator continuously monitors or samples Hg emissions in accordance with the provisions of 40 CFR. §60.56c(c)(5) or 40 CFR §60.56c(c)(7).
[Rule 62-204.800(9)(g)7.d., F.A.C.]

A.32. Compliance Tests Prior To Renewal - Compliance tests shall be performed for dioxins/furans, sulfur dioxide and NOx between 365 and 270 days before the expiration date of this permit to demonstrated compliance with the emission limits in Specific Condition No. A.9.
[Rule 62-297.310(7)(a)3., F.A.C.]

A.33. Repeat Compliance Tests After a Violation - The permittee may conduct a repeat compliance test within 30 days of violation of applicable operating parameter(s) to demonstrate that the affected facility is not in

violation of the applicable emissions limit(s). Compliance tests conducted pursuant to this paragraph shall be conducted using the identical operating parameters that indicated a violation under Specific Condition A.18.
[NSPS 40 CFR 60, Subpart Ec §60.56c(i) as referenced in Rule 62-204.800(9)(g)7.a., F.A.C.]

A.34. Repeat Compliance Tests Without a Violation - The owner or operator of an affected facility may conduct a repeat compliance test at any time to establish new values for the operating parameters. The Administrator may request a repeat compliance test at any time.
[NSPS 40 CFR 60, Subpart Ec §60.56c(k) as referenced in Rule 62-204.800(9)(g)7.a., F.A.C.]

A.35. Compliance Test Notification - The permittee shall notify the Pinellas County Air Quality Division 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.

(Permitting Note: The notification should also include the relevant emission unit ID No(s)., test method(s) to be used, and pollutants to be tested.)

[Rule 62-297.310(7)(a)9, F.A.C.]

Recordkeeping and Reporting Requirements

A.36. Reporting Schedule - The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Initial Reporting	No later than 60 days following the initial performance testing.	A.37., NSPS 40 CFR 60, Subpart Ec §60.58c(c)
Air Pollution Control Device Inspections	Semi-Annual – No later than 60 days after June 30 and December 31.	A.38., §60.38e(b)
Operating Parameter	Semi-Annual – No later than 60 days after June 30 and December 31. The initial report is due no later than 60 days following the initial performance test.	A.38., NSPS 40 CFR 60, Subpart Ec §60.58c(d)
Missing Data, Malfunction, Excess Emissions	Semi-Annual – No later than 60 days after June 30 and December 31. The initial report is due no later than 60 days following the initial performance test.	A.38., NSPS 40 CFR 60, Subpart Ec §60.58c(e)

(Permitting Note: Each new compliance test establishes new operational parameters. Depending on the date of the initial performance and subsequent compliance tests, some semi-annual reports will contain information based on two sets of operational parameters. In no case shall reports be submitted more than 6 calendar months following the previous report.)

[Rules 62-4.070(3), 62-213.440, F.A.C.; NSPS 40 CFR 60, Subpart Ec §60.58c(d) and (e) as referenced in Rule 62-204.800(9)(g)8.; Emission Guideline 40 CFR 60 Subpart Ce §60.38e(b) as referenced in Rule 62-204.800(9)(g)8.]

A.37. Initial Reporting - The permittee shall submit the information specified below no later than 60 days following the initial performance test. All reports shall be signed by the responsible official.

a. The initial performance test data as recorded under §60.56c(b)(1) through (b)(14), as applicable.

b. The values for the site-specific operating parameters established pursuant to Specific Condition A.20. and a description, including sample calculations, of how the operating parameters were established during the initial performance test.

c. The waste management plan as specified in Specific Condition A.13.

[NSPS 40 CFR 60, Subpart Ec §60.58c(c) as referenced in Rule 62-204.800(9)(g)8.a., F.A.C.]

A.38. Semiannual Reporting - The permittee shall submit semiannual reports containing the following:

a. The values for the site-specific operating parameters established pursuant to Specific Condition A.20.

b. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the period being reported.

c. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the three preceding periods being reported, in order to provide the Compliance Authority with a summary of the performance of the affected facility over a 2-year period.

d. Any information recorded under Specific Condition A.42.c.-e. for the period being reported.

e. Any information recorded under Specific Condition A.42.c.-e. for the three preceding periods being reported in order to provide the Compliance Authority with a summary of the performance of the affected facility over a 2-year period.

f. If a compliance test was conducted during the reporting period, the results of that test.

g. If no exceedances or malfunctions were reported under Specific Condition A.42.c.-e. for the period being reported, a statement that no exceedances occurred during the reporting period.

h. Any use of the bypass stack, the duration, reason for malfunction, and corrective action taken.

i. Information recorded as required by Specific Condition No. A.42.k..

The above semiannual reports shall be submitted no later than 60 days following June 30th and December 31st. The first semiannual reporting period ends 6 months following the submission of the initial report (*see Specific Condition No. 38.*). Subsequent reports shall be submitted per the schedule above but in no case later than 6 calendar months following the previous report. All reports shall be signed by the responsible official.

[Rule 62-4.070(3), F.A.C.; NSPS 40 CFR 60, Subpart Ec §60.58c(d)(1)-(8) as referenced in Rule 62-204.800(9)(g)8.; NSPS 40 CFR 60, Subpart Ec §60.58c(e) as referenced in Rule 62-204.800(9)(g)8.a.; Emission Guideline 40 CFR 60 Subpart Ce §60.38e(b) as referenced in Rule 62-204.800(9)(g)8.]

A.39. Excess Emission Reporting - In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Air Compliance Section of the Pinellas County Air Quality Division (Compliance Authority) 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.]

Recordkeeping and Reporting Requirements

A.40. Other Reporting Requirements - See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.
[Rule 62-4.070(3), F.A.C.]

A.41. Daily Recordkeeping Requirements - The permittee of the HMIWI shall record the following daily:

a. Facility name, emission unit number, date and name of operator.

b. The measurement of each monitor without a continuous recorder during operation.

c. Total daily hours of operation.

d. The total cumulative calendar year hours of operation.

[Rule 62-4.070(3), F.A.C.; Construction Permit AC52-189392]

A.42. HMIWI Operation Recordkeeping Requirements - The permittee shall maintain the following information (as applicable) for a period of at least 5 years:

a. Calendar date of each record;

b. Records of the following data:

(1) HMIWI charge dates, times, and weights and hourly charge rates;

(2) Fabric filter inlet temperatures during each minute of operation, as applicable;

(3) Amount and type of dioxin/furan sorbent used during each hour of operation, as applicable;

(4) Amount and type of Hg sorbent used during each hour of operation, as applicable; keeping after talking to Ken Given that that might be what they use in the future

(5) Amount and type of HCl sorbent used during each hour of operation, as applicable;

(6) Secondary chamber temperatures recorded during each minute of operation;

(7) Liquor flow rate to the wet scrubber inlet during each minute of operation;

(8) Horsepower or amperage to the wet scrubber during each minute of operation;

(9) Pressure drop across the wet scrubber system during each minute of operation;

(10) Temperature at the outlet from the wet scrubber during each minute of operation;

(11) pH at the inlet to the wet scrubber during each minute of operation; and

(12) Records indicating use of the bypass stack, including dates, times, and durations.

c. Missing Data Logs: Identification of calendar days for which data on emission rates or operating parameters specified in Specific Condition A.42.b., have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.

d. Malfunction Log: Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.

e. Exceedances: Identification of calendar days for which data on emission rates or operating parameters specified in this Specific Condition exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.

f. Performance Test Records: The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emissions limits and/or to establish or re-establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established.

g. Operator Review Training Records: Records showing the names of HMIWI operators who have completed review of the information in §60.53c(h) as required by §60.53c(i), including the date of the initial review and all subsequent annual reviews.

h. Operator Training Records: Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training;

i. Operator Qualification Records: Records showing the names of the HMIWI operators who have met the criteria for qualification under §60.53c and the dates of their qualification.

j. Monitoring Device Calibration Records: Records of calibration of any monitoring devices as required under §60.57c(a) through (d).

k. Equipment and Maintenance Inspections: Records of the annual equipment inspections that are required for each HMIWI subject to the emissions limits under §60.33e(a)(2), (a)(3), and (b), and the annual air pollution control device inspections that are required for each HMIWI subject to the emissions limits under §60.33e(a)(2), (a)(3), and (b)(2), any required maintenance, and any repairs not completed within 10 days of an inspection or the timeframe established by the State regulatory agency.

[NSPS 40 CFR 60, Subpart Ec §60.58c(b) and Emission Guideline 40 CFR 60, Subpart Ce §60.38e(b)(1) as referenced in Rule 62.204.800(9)(g)]

Other Requirements

A.43. Federal Rule Requirements - In addition to the specific conditions listed above, this emissions unit is subject to the requirements of NSPS 40 CFR 60, Subpart A – General Provisions for 40 CFR 60 and 40 CFR 60, Subpart Ce, Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators. The requirements of Subpart Ce are adopted by reference in Rule 62-204.800(9)(d), F.A.C., and are effective until June 1, 2012. The EPA revised Subpart Ce on October 6, 2009, and the revised regulations are incorporated in Rule 62-204.800(9)(g), F.A.C. The revised regulations shall become effective on June 1, 2012. Some of the requirements in the above Rule are stipulated in 40 CFR 60, Subpart Ec - Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996. [Rules 62-201.800 and 62-213.440, F.A.C.]

A.44. Operation and Maintenance (O & M) Plan **- Not federally enforceable.** The attached O & M Plan, (or the plan as revised with prior approval of the Pinellas County Air Quality Division), shall be followed for the wet scrubber. The O & M documentation logs that are a part of the plan shall be maintained for a minimum of two years. The O&M plan shall include, but is not limited to:

a. Operating parameters of the pollution control device;

b. Time table for the routine maintenance of the pollution control device as specified by the manufacturer;

c. Time table for routine periodic observations of the pollution control device sufficient to ensure proper operation;

d. A list of the type and quantity of the required spare parts for the pollution control device which are stored on the premises of the permit applicant;

e. A record log which will indicate, at a minimum:

(1) When maintenance and observations were performed;

(2) What maintenance and observations were performed;

(3) Who performed said maintenance and observations; and

(4) Acceptable parameter ranges for each operational check.

[Pinellas County Code, Section 58-128]

Subsection B. Emission Unit No. 003 - Boiler

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
003	This emissions unit is a Cleaver Brooks, model CB 700-300 boiler with a maximum heat input rate of 12.6 MMBtu/hour. The boiler is fired with natural gas only. It is subject to NSPS 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, Rule 62-296.406 and the attached Best Available Control Technology (BACT) determination letter.

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity - The maximum natural gas usage rate is 12,000 ft^3/hour based on a maximum heat input rate of 12.6. MMBtu/hour and a natural gas heat content of 1050 Btu/ft^3.
[Rule 62-210.200 ("Potential to Emit") F.A.C.]

B.2. Methods of Operation - The boiler shall be fired with natural gas only.
[Rule 62-210.200 ("Potential to Emit") F.A.C.]

B.3. Hours of Operation - This emissions unit may operate continuously (i.e., 8,760 hours/year).
[Rule 62-210.200 ("Potential to Emit"), F.A.C.]

Emission Limitations and Standards

(Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit)

B.4. Visible Emissions Limitation - Visible emissions (VE) from the 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.]

Test Methods and Procedures

(Permitting Note: The attached Table 2, 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.5. Test Methods - Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
EPA Method 9	Visual Determination of the Opacity of Emissions from Stationary Sources (a minimum of 60 minutes in duration)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rule 62-297.401, F.A.C.]

B.6. Common Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

B.7. Annual Visible Emissions Compliance Tests Required - During each federal fiscal year (October 1st to September 30th), the boiler exhaust shall be tested to demonstrate compliance with the emissions standards for visible emissions (VE) contained in Specific Condition No. B.4.
[Rule 62-297.310(7), F.A.C.]

Recordkeeping Requirements

B.8. Other Reporting Requirements - See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

B.9. Monthly Recordkeeping - In order to provide information to document compliance with the fuel heat input rate limitation of Specific Condition B.1., the permittee shall monitor and maintain monthly logs of the following:

a. the natural gas fuel consumption;

b. the operating hours; and

c. the monthly average natural gas consumption rate in ft^3/hour.

[Rule 62-4.070(3), F.A.C.; NSPS 40 CFR 60 Subpart Dc §60.48c(g)]

B.10. Records Retention - The monthly logs shall be completed by the end of the following month. These records shall be maintained at the facility for at least 2 years and made available to the Department and the Pinellas County Air Quality Division upon request.
[Rule 62-4213.440(1)(b)2., F.A.C.]

Other Requirements

B.11. Federal Rule Requirements - In addition to the specific conditions listed above, this emissions unit is also subject to the applicable requirements contained in Appendix NSPS 40 CFR 60 Subpart Dc-Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units and Appendix NSPS 40 CFR 60 Subpart A - General Provisions for 40 CFR 60, which are attached to and made a part of this permit.
[Rules 62-201.800 and 62-213.440, F.A.C.]

Subsection C. Emission Unit No. 004 - Existing Emergency Stationary CI RICE Engine ≤ 500 HP

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
004	Existing Emergency Stationary Compression Ignition (CI) RICE Engine ≤ 500 HP *(see list below)*

Manufacturer & Model	HP Rating	Year of Manuf.	Description
Superior Model 85R461	114	1993	Scrubber system and incinerator control panel backup power source

(Permitting Note –The above engine is exempt from the construction permit requirements of Rule 62-210.300(1), F.A.C., in accordance with the provisions of Rule 62-210.300(3)(a)35.*, F.A.C. (Stationary Reciprocating Internal Combustion Engines))*

(Stationary CI RICE Engine Listing Note – The above listing of stationary CI RICE engines at this facility is based upon additional information received 10/03/11 submitted by Mr. H. Tomlinson, Plant Manager for Bayfront Medical Center Special Services.)

IMPORTANT REGULATORY CLASSIFICATIONS - The engine in this emission unit is regulated under NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), as amended in the 03/09/11 Federal Register, as existing stationary Reciprocating Internal Combustion Engines (RICE) at an area source of hazardous air pollutants (HAPs).

Operation Requirements

C.1. Operating Hours - There are no specific limitations on operating hours for the existing stationary engine listed above.

(Permitting Note - See also the previous Permitting Note below the descriptions of this emissions unit. The maximum actual operating hours of this engine is inherently restricted by the limited purpose for which it is used.)

Applicable Federal Requirements

C.2. Federal 40 CFR 63 NESHAP Subpart ZZZZ Requirements - The existing stationary engine in this section listed above is subject to the applicable requirements of NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)), which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart ZZZZ, as it applies to existing RICE at area sources of hazardous air pollutants (HAP). The applicable requirements for these are shown in the Appendix 40 CFR 63, Subpart ZZZZ, Applicability Table attached to this permit, under the category Emergency CI ≤500 HP.
[Rule 62-4.070(3), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

*(Compliance Note – The final compliance date for the applicable Subpart ZZZZ requirements for the existing compression ignition (**CI**) RICE engines at this area source of HAP is 05/03/2013. (40 CFR 63.6595(a)(1).)*

C.3. Federal NESHAP 40 CFR 63 Subpart A General Provisions Requirements - The engine in this section listed above is subject to the applicable requirements of NESHAP 40 CFR 63 Subpart A (General Provisions for 40 CFR 63), as adopted and incorporated by reference in Rules 62-204.800(11)(d), F.A.C., which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart A. The applicable requirements of Subpart A are shown in Table 8 to 40 CFR 63 Subpart ZZZZ.
[Rule 62-208.800(11)(d), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.

Appendix I, List of Insignificant Emissions Units and/or Activities.

Appendix NSPS 40 CFR 60, Subpart A – General Provisions.

Appendix NSPS 40 CFR 60, Subpart Ec - Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996.

Appendix NESHAP 40 CFR 63, Subpart A – General Provisions.

Appendix NESHAP, 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Appendix 40 CFR 63, Subpart ZZZZ, Applicability Table.

Appendix OP-1, Operating Parameters to be Monitored and Minimum Measurement and Recording Frequencies.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.

Best Available Control Technology Determination dated March 2, 2012, for the Cleaver Brooks boiler (Emission Unit No. 003).

Table E., Equipment Monitored.

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Figure 1, Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance (40 CFR 60, July, 1996).

Operation and Maintenance Plan

Statement of Basis

Table H, Permit History.

Table 1, Summary of Air Pollutant Standards and Terms.

Table 2, Compliance Requirements.