

## FULL COMPLIANCE EVALUATION CHECKLIST

AIRS ID <i>0990095</i>	OWNER <i>Bethesda Memorial Hospital</i>	FACILITY NAME <i>Bethesda Memorial Hospital</i>
<input checked="" type="checkbox"/> TITLE V	<input type="checkbox"/> SYNTHETIC MINOR	DATE OF THIS FCE <i>09/19/2013</i>
<input type="checkbox"/> TITLE V MEGA-SITE*	<input type="checkbox"/> OTHER	DATE OF LAST FCE <i>07/20/2011</i>

\*Facility with a large number of complex emissions units. It is more reasonable to evaluate a Title V Mega-Site once every 3 years instead of once every 2 years.

### REVIEW OF ALL REQUIRED REPORTS

	PERIODIC REPORTS	COMMENTS
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Annual operating report	<i>Received on 04/01/2013 for 2012</i>
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Statement of compliance	<i>Received on 03/01/2013 for 2012</i>
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Annual	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Semi-annual	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Quarterly	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Other :	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Other :	

	CONTINUOUS EMISSION MONITOR REPORTS	COMMENTS
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Quarterly excess emissions	<i>2nd Qtr 2013 - Submitted on 07/30/2013</i>
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Semi-annual	<i>1st half 2013 - submitted on 07/30/2013</i>
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	RATA	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	CGA	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Other :	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Other :	

### ASSESSMENT OF CONTROL DEVICE AND PROCESS OPERATING CONDITIONS

<input type="checkbox"/> OFF-SITE ASSESSMENT	(Describe the off-site assessment in comments)			
<input checked="" type="checkbox"/> ON-SITE ASSESSMENT	(Document the on-site inspection below)			
DATE OF INSPECTION	DATE OF INSPECTION REPORT	My office maintains the inspection report...		
		...in the ARMS database through EASIIIR.	...with the paper or electronic compliance files	...in another location (specify).
<i>03/07/2012</i>	<i>03/07/2012</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>05/09/2013</i>	<i>05/09/2013</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>COMMENTS</b>				
<p><i>The facility has installed additional control equipment to ensure the facility is in compliance with the new permit limits that are going to be in effect from June 1, 2014. The facility stated that the emissions unit was tested to ensure that the control equipment installed work properly. The permit does not require the facility to test at this time because the testing for the current fiscal year has already been completed. The facility plans to conduct a test during the next fiscal year.</i></p>				

# FULL COMPLIANCE EVALUATION CHECKLIST

## REVIEW OF TESTS AND RECORDS


TESTS, OBSERVATIONS AND RECORDS		COMMENTS
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Visible emission observation(s)	<i>VE Test conducted on 05/09/2013</i>
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Review of facility records and logs	<i>Facility records and logs were reviewed during the FCS on 09/19/2013</i>
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Assessment of process parameters (feed rates, process rates, raw material compositions, etc.)	<i>Conducted during INS3 on 05/09/2013 and FCS on 09/19/2013</i>
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Assessment of control equipment performance parameters (water flow rates, pressure drops, temperatures, ESP power levels, etc.)	<i>Conducted during INS3 on 05/09/2013 and FCS on 09/19/2013</i>
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Stack test(s)	<i>Stack Test Conducted on 05/09/2013</i>
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Other :	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Other :	

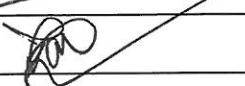
## COMPLIANCE MONITORING (CM) INFORMATION

CM ELEMENT	My office maintains this information...			
	...electronically, in the ARMS database.	...in the permit.	...in the inspection report.	...in another location (specify).
Facility information	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Applicable requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Inventory of emission units	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enforcement history	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compliance activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Findings and recommendations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS				
<i>The facility is in compliance with the requirements in the Title V Permit No. 0990095-007-AV.</i>				

## OTHER COMMENTS

*I (Binod Basnet) arrived at the site at about 10:00 am to conduct annual inspection and Full Compliance Evaluation of the facility. Mr. Bruce Mandigo and Susan Moak, facility representatives, were present on site during the FCE and site inspection. Record keeping documents were reviewed as required by the permit. The checklist was prepared for the FCE and all the required documents were reviewed. The facility is in compliance with all the requirements in the permit. The inspection concluded on 1:00 pm.*

Prepared by: Binod Basnet 

Reviewed by: Laxmana Tallam 

Date: 09/19/2013

Date: 9/23/13

Inspection Date	9/19/2013
Arrival/Departure	10:00 am / 1:00 PM
Facility Contact	Bruce Mandigo
Phone number	561-737-7733 X 84704

Inspection Comments:

I (Binod Basnet) conducted a full compliance evaluation at Bethesda Memorial Hospital. Mr. Bruce Mandigo and Ms. Susan Moak, facility representatives were present on site during the time of inspection. During the inspection, it was noted that the incinerator was in operation and one of the two boilers was in operation. The facility has just completed the upgrade of the control technology in order to comply with the new permit limits effective on June 1, 2014. The contractors for the upgrade were also present on site during the time of inspection. The contractors provided the brief tour to show the upgraded control equipment and stated that the incinerator is in better shape to meet the new permit limits. During the full compliance evaluation, all of the record keepings the facility maintains on site were reviewed.

EU ID	Status	Brief Description
1	Shutdown	CONSUMAT Incinerator
2	Shutdown	Type II and IV Incinerator
3	Shutdown	Fossil-Fuel Fired Boiler (150 HP)
4	Regulated	Hospital/Medical/Infectious Waste Incinerator w/Waste Heat Boiler
5	Regulated	Fossil-Fuel Fired Steam Generators
6	Regulated	Electric Power Generators {See Appendix ICE}
7	Shutdown	Ethylene Oxide Sterilizers

Facility-wide conditions:

S.No.	Description	OK	Not OK	N/A
II.A.1	Regulating Agencies:	√		
II.A.2.	Appendix TV (dated 11/02/2010), Title V Conditions, is a part of this permit.	√		
II.A.3.	Appendix U, List of Unregulated Emissions Units and/or Activities, is a part of this permit.	√		
II.A.4.	Appendix I, Insignificant Emissions Units and/or Activities, is a part of this permit.	√		
II.A.5	Appendix ICE is a part of this permit.	√		
II.A.6.	General Particulate Emission Limiting Standards:	√		
II.A.7.	Excess Emissions Requirements:	√		
II.A.8.	Prevention of Accidental Releases (Section 112(r) of CAA):	√		
II.A.9.	Notifications and Reports:	√		
II.A.10.	U.S. Environmental Protection Agency, Report & Notifications:	√		
II.A.11.	Title V Effective Date:	√		
II.A.12.	Statement of Compliance:	√		
II.A.13.	Permit Renewal and Expiration:	√		
II.A.14.	General Pollutant Emission Limiting Standards -- Objectionable Odor Prohibited:	√		
II.A.15.	General Pollutant Emission Limiting Standards --Volatile Organic Compounds Emissions or Organic	√		
II.A.16.	General Particulate Emission Limiting Standards -- Unconfined Emissions of Particulate Matter:	√		
II.A.17.	Certification by Responsible Official (RO):	√		
II.A.18.	Annual Operations Report:	√		
II.A.19.	Annual Emissions Fee:	√		

Subsection A: This section addresses the following emissions unit.

E.U.ID No.	Emissions Unit
4	Hospital/Medical/Infectious Waste Incinerator (HMIWI) The air quality control system includes a natural gas-fired afterburner followed by a skid-mounted EMOCYTEK Model 150H-4499c-2T wet scrubbing system.

Emissions Unit Details:

Hospital/Medical/Infectious Waste Incinerator (HMIWI) is Cleaver-Brooks Model #1280A/72 incinerator fired by natural gas and is equipped with a heat recovery steam generator. The charging capacity of the incinerator is 1000 pounds per hour. The emissions unit has the following regulatory designations:

Federal and State Regulations : A large HMIWI with a continuous or intermittent maximum charging rate of more than 500 pounds per hour. [40 CFR 60.32e, 40 CFR 60.51c and Rule 62-204.800(9)(d) & (g), F.A.C.]

State (FL DEP) Regulation : Biological Waste Incineration Facility with a capacity greater than 500 pounds per hour, but less than or equal to 2,000 pounds per hour. [Rule 62-296.401(4), F.A.C.]

Local Regulation : Biohazardous Waste Incineration Facility with a total capacity greater than 300 pounds per hour, but less than or equal to 1,000 pounds per hour. Most of these regulations are less stringent than the revised EPA regulations. [Palm Beach County Biohazardous Waste Incineration Facility (PBC-BWIF) Ordinance]

The HMIWI is subject to the Emission Guidelines of 40 CFR Part 60, Subpart Ce. The requirements of Subpart Ce are adopted by DEP by reference are incorporated in Rule 62-204.800(9)(d), F.A.C. The Environmental Protection Agency (EPA) revised the emission guidelines Ce on October 06, 2009, and the revised regulations are incorporated in Rule 62-204.800(9)(g), F.A.C. The revised regulations shall become effective from June 1, 2012. **This permit revision extends the time period required to demonstrate compliance with new emissions limits by two years, until June 1, 2014.**

The facility is required to comply with the DEP and EPA requirements as well as the Palm Beach County Ordinance.

{Permitting note(s): **IMPORTANT REGULATORY CLASSIFICATIONS** - The emissions unit is regulated under 40 CFR 60, Subpart Ce, Emission Guidelines for Hospital/Medical/Infectious Waste Incinerators adopted in Rule 62-204.800(9)(d) & (g) F.A.C. }

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

**Operating Restrictions**

{Permitting note(s): Those operating restrictions which are identified as "Not Federally Enforceable" have been included for purposes of local regulations, compliance testing, establishing appropriate emission limitations and to aid in determining future rule

S.No.	Description	OK	Not OK	N/A	Remarks
III.A.1.	<u>Permitted Capacity</u> : The permittee shall not allow, cause, suffer or permit the operation of the unit in excess of the following without prior authorization from the Permitting Authority: (1) <u>Charging Capacity</u> : 1,000 pounds per hour (3-hour average) of biohazardous, biological, biomedical, hospital, medical or infectious wastes. <b>[Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b> (2) <u>Primary Chamber Maximum Heat Input</u> : 0.6 million Btu per hour (3-hour average). <b>[Not Federally Enforceable]</b> (3) <u>Secondary Chamber Maximum Heat Input</u> : 4.2 million Btu per hour (3-hour average). <b>[Not Federally Enforceable]</b> <b>[Rules 62-4.160(2), 62-210.200(PTE) and 62-210.300, F.A.C.]</b>	√			
III.A.2.	<u>Rule Applicability &amp; Methods of Operation</u> : The permittee shall not allow, cause, suffer or permit any change in the method(s) of operation resulting in increased short-term or long-term emissions, without prior authorization from the Permitting Authority. The authorized methods of operation include the following: (1) <u>Biohazardous Waste Incineration Facility</u> : The permittee is authorized to operate the emissions unit as a biohazardous waste incinerator subject to the requirements of the Palm Beach County Biohazardous Waste Incineration Facility Ordinance, and these requirements are incorporated in Appendix BWIF. <b>[Not Enforceable by EPA and DEP, Letter of Approval dated 9/24/1999, PBC-BWIF Ordinance]</b> (2) <u>Biological Waste Incineration Facility</u> : The permittee is authorized to operate the emissions unit as a biological waste incinerator subject to the requirements of Rule 62-296.401(4), F.A.C. <b>[Air Construction Permit AC50-197439, dated 9/1/1992]</b> (3) <u>Hospital/Medical/Infectious Waste Incinerator</u> : The permittee is authorized to operate the emissions unit as a hospital/medical/infectious waste incinerator subject to the requirements of Rule 62-204.800(9) (d)&(g), F.A.C. The compliance date to demonstrate compliance with the emissions limits specified in Rule 62-204.800(9)(g), F.A.C. is extended until June 1, 2014. <b>[Air Construction Permit 0990095-001-AC, dated 9/12/1995, and Rule 62-204.800(9)(d)&amp;(g), F.A.C.]</b> (4) <u>Waste Materials</u> : The permittee is authorized to charge biohazardous waste as defined by the PBC-BWIF Ordinance, biological and biomedical wastes as defined by Rule 62-210.200, F.A.C., and hospital and medical/infectious wastes as defined by 40 CFR 60.51c. <b>[Air Construction Permit 0990095-001-AC, dated 9/12/1995, and Rule 62-204.800(9)(d) &amp; (g), F.A.C.]</b> (5) <u>Fuels</u> : The permittee is authorized to fire natural gas in the primary and secondary chambers of the emissions unit as a supplemental fuel. <b>[Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b>	√			
III.A.3.	<u>Hours of Operation</u> : The permittee shall not allow operation of the emissions unit in excess of 4,416 hours per year (12-month rolling total) without prior authorization from the Permitting Authority. <b>[Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b>	√			Yearly hours of operation was 1,862 hours
III.A.4.	<u>Combustion Zone</u> : The permittee shall ensure that the emissions unit is maintained to operate with a combustion zone design temperature of no less than 1800°F for at least a 1.0 second residence time in the secondary (or last) combustion chamber. The primary chamber and stack shall not be used in calculating this residence time. <b>[Rule 62-296.401(4)(c)1., F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b>	√			There were 22 number of exceedances, which is 1.2% last year.
III.A.5.	<u>Air Lock System</u> : The permittee shall maintain an air lock system on the mechanical feed system which prevents opening the incinerator to the room environment. The permittee shall ensure that the volume of the loading system is maintained to prevent overcharging, thereby assuring complete combustion of the waste. <b>[Rule 62-296.401(4)(c)2., F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b>	√			

III.A.6.	<p><b>Start-up Requirements:</b> The permittee shall ensure that incineration or ignition of waste shall not begin until a temperature of 1800°F in the secondary (or last) combustion chamber is attained. 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 incinerated. The 1800°F secondary (or last) combustion chamber temperature requirement shall be maintained until the wastes are completely combusted. <b>[Rule 62-296.401(4)(c)3., F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b></p>	v		
III.A.7.	<p><b>Radioactive Wastes:</b> The permittee shall not allow radioactive waste to be burned in the incinerator without prior authorization from the Permitting Authority and the incinerator has been issued an appropriate Department of Health (DOH) license to incinerate radioactive waste or the waste is of such quantity to be exempt in accordance with HRS Rule 10D-91 or 10D-104.003, F.A.C. <b>[Rule 62-296.401(4)(c)4., F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b></p>	v		
III.A.8.	<p><b>Hazardous Wastes:</b> The permittee shall not allow hazardous wastes to be burned in the incinerator without prior authorization from the Permitting Authority and the incinerator has been issued an appropriate FDEP hazardous waste permit to incinerate hazardous waste or the waste is of such quantity to be exempt in accordance with FDEP Rule 62-730, F.A.C. <b>[Rule 62-296.401(4)(c)5., F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995]</b></p> <p><i>{Permitting note(s): Prior authorization includes the issuance of construction, reconstruction, or modification permits or a determination by the Permitting Authority that the action is not subject to 62-210.300(1), F.A.C.}</i></p>	v		

**Emission Limitations and Standards**

III.A.9.	<p><b>Visible Emissions:</b> The permittee, based on the method of operation, shall comply with the following visible emissions restrictions:  <b>(1) Incinerator/Biological Waste Incineration Facility:</b> Visible emissions shall not exceed five percent (5%) opacity, six -minute average, except that visible emissions not exceeding 15 percent are allowed for not more than six (6) minutes in any one (1) hour period. <b>[Rule 62-296.401(4)(b), F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995];</b> and  <b>(2) Hospital/Medical/Infectious Waste Incinerator:</b> The permittee shall not cause to be discharged into the atmosphere from the stack of the incinerator any gases that exhibit greater than 10 percent opacity (6-minute block average). <b>[Rule 62-204.800(9)(d).3.a., F.A.C., 40 CFR 60.52c(b)(1)]</b>  <b>(3) Effective June 1, 2014 -- Hospital/Medical/Infectious Waste Incinerator:</b> The permittee shall not cause to be discharged into the atmosphere from the stack of the incinerator any gases that greater than 6 percent opacity (6-minute block average). <b>[Rule 62-204.800(9)(g)3.b. and 40 CFR 60.52c(b)(2)]</b></p>	v		The facility conducted annual VE test on 05/09/2013.																														
III.A.10.	<p>The permittee shall not allow, cause, suffer or permit the emissions of the following pollutants greater than the limits specified below.  <b>[Rules 62-204.800(9)(d), 62-296.401, F.A.C.]</b></p> <table border="1" data-bbox="196 1346 1078 1921"> <thead> <tr> <th colspan="3">Emission limitation<sup>[1],[2]</sup></th> </tr> <tr> <th>Pollutant</th> <th>EPA [40 CFR 60.33e(a) - Incorporated in Rule 62-204.800(9)(d), F.A.C.] <b>These emission limitations shall be effective until June 1, 2014</b></th> <th>DEP [Rule 62-296.401(4), F.A.C.]</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>40 ppmv</td> <td>100 ppmv on an hourly average</td> </tr> <tr> <td>PM</td> <td>34 (0.015) mg/dscm (gr/dscf)</td> <td>0.03 gr/dscf</td> </tr> <tr> <td>HCL</td> <td>100 ppmv OR 93% reduction</td> <td>4 pounds/hr OR 90% reduction on an hourly basis</td> </tr> <tr> <td>Dioxins/Furans</td> <td>125 (55) ng/dscm (gr/Bscf) OR <a href="#">2.3(1.0) ng/dscm TEQ (gr/Bscf)3]</a></td> <td></td> </tr> <tr> <td>Lead</td> <td><a href="#">1.2 (0.52) mg/dscm (gr/Kscf4) OR</a> 70% reduction</td> <td></td> </tr> <tr> <td>Mercury</td> <td>0.55 (0.24) mg/dscm (gr/Kdscf) OR 85% reduction</td> <td></td> </tr> <tr> <td>Cadmium</td> <td>0.16 (0.07) mg/dscm (gr/Kscf) OR 65% reduction</td> <td></td> </tr> <tr> <td><a href="#">Chromium[5]</a></td> <td></td> <td>8.3 X 10<sup>-5</sup> µg/m<sup>3</sup></td> </tr> </tbody> </table>	Emission limitation <sup>[1],[2]</sup>			Pollutant	EPA [40 CFR 60.33e(a) - Incorporated in Rule 62-204.800(9)(d), F.A.C.] <b>These emission limitations shall be effective until June 1, 2014</b>	DEP [Rule 62-296.401(4), F.A.C.]	CO	40 ppmv	100 ppmv on an hourly average	PM	34 (0.015) mg/dscm (gr/dscf)	0.03 gr/dscf	HCL	100 ppmv OR 93% reduction	4 pounds/hr OR 90% reduction on an hourly basis	Dioxins/Furans	125 (55) ng/dscm (gr/Bscf) OR <a href="#">2.3(1.0) ng/dscm TEQ (gr/Bscf)3]</a>		Lead	<a href="#">1.2 (0.52) mg/dscm (gr/Kscf4) OR</a> 70% reduction		Mercury	0.55 (0.24) mg/dscm (gr/Kdscf) OR 85% reduction		Cadmium	0.16 (0.07) mg/dscm (gr/Kscf) OR 65% reduction		<a href="#">Chromium[5]</a>		8.3 X 10 <sup>-5</sup> µg/m <sup>3</sup>	v		The annual compliance test conducted on 05/09/2013 showed that the facility is in compliance with the emissions limitations.
Emission limitation <sup>[1],[2]</sup>																																		
Pollutant	EPA [40 CFR 60.33e(a) - Incorporated in Rule 62-204.800(9)(d), F.A.C.] <b>These emission limitations shall be effective until June 1, 2014</b>	DEP [Rule 62-296.401(4), F.A.C.]																																
CO	40 ppmv	100 ppmv on an hourly average																																
PM	34 (0.015) mg/dscm (gr/dscf)	0.03 gr/dscf																																
HCL	100 ppmv OR 93% reduction	4 pounds/hr OR 90% reduction on an hourly basis																																
Dioxins/Furans	125 (55) ng/dscm (gr/Bscf) OR <a href="#">2.3(1.0) ng/dscm TEQ (gr/Bscf)3]</a>																																	
Lead	<a href="#">1.2 (0.52) mg/dscm (gr/Kscf4) OR</a> 70% reduction																																	
Mercury	0.55 (0.24) mg/dscm (gr/Kdscf) OR 85% reduction																																	
Cadmium	0.16 (0.07) mg/dscm (gr/Kscf) OR 65% reduction																																	
<a href="#">Chromium[5]</a>		8.3 X 10 <sup>-5</sup> µg/m <sup>3</sup>																																

	SO <sub>2</sub>	55 ppmv																																					
	NOx	250 ppmv																																					
III.A.11	<p><b>Effective June 1, 2014</b>, the permittee shall not allow, cause, suffer or permit the emissions of the following pollutants greater than the limits specified below. [Rules 62-204.800(9)(g), 62-296.401, F.A.C.]</p> <p style="text-align: center;"><b>Emission limitation</b><sup>[6],[7]</sup></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>EPA 40 CFR 60.33e(a)(2) -Incorporated in [Rule 62-204.800(9)(g), F.A.C.]</th> <th>DEP [Rule 62-296.401(4), F.A.C.]</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>11 ppmv</td> <td>100 ppmvd On an hourly average</td> </tr> <tr> <td>PM</td> <td>25 (0.011) mg/dscm (gr/dscf)</td> <td>0.03 gr/dscf</td> </tr> <tr> <td>HCL</td> <td>6.6 ppmv</td> <td>4 pounds/hr or 90% reduction On an hourly basis</td> </tr> <tr> <td>Dioxins/Furans</td> <td><a href="#">9.3 (4.1) ng/dscm (gr/Bscf[8])</a> OR 0.054 (0.024) ng/dscm TEQ (gr/Bscf TEQ)</td> <td></td> </tr> <tr> <td>Lead</td> <td><a href="#">0.036 (0.016) mg/dscm (gr/Kscf[9])</a></td> <td></td> </tr> <tr> <td>Mercury</td> <td>0.018 (0.0079) mg/dscm (gr/dscf)</td> <td></td> </tr> <tr> <td>Cadmium</td> <td>0.0092 (0.004) mg/dscm (gr/Kscf)</td> <td></td> </tr> <tr> <td><a href="#">Chromium[10]</a></td> <td></td> <td>8.3 X 10<sup>-5</sup> µg/m<sup>3</sup></td> </tr> <tr> <td>SO<sub>2</sub></td> <td>9.0 ppmv</td> <td></td> </tr> <tr> <td>NOx</td> <td>140 ppmv</td> <td></td> </tr> </tbody> </table>				Pollutant	EPA 40 CFR 60.33e(a)(2) -Incorporated in [Rule 62-204.800(9)(g), F.A.C.]	DEP [Rule 62-296.401(4), F.A.C.]	CO	11 ppmv	100 ppmvd On an hourly average	PM	25 (0.011) mg/dscm (gr/dscf)	0.03 gr/dscf	HCL	6.6 ppmv	4 pounds/hr or 90% reduction On an hourly basis	Dioxins/Furans	<a href="#">9.3 (4.1) ng/dscm (gr/Bscf[8])</a> OR 0.054 (0.024) ng/dscm TEQ (gr/Bscf TEQ)		Lead	<a href="#">0.036 (0.016) mg/dscm (gr/Kscf[9])</a>		Mercury	0.018 (0.0079) mg/dscm (gr/dscf)		Cadmium	0.0092 (0.004) mg/dscm (gr/Kscf)		<a href="#">Chromium[10]</a>		8.3 X 10 <sup>-5</sup> µg/m <sup>3</sup>	SO <sub>2</sub>	9.0 ppmv		NOx	140 ppmv			This permit condition will be effective on June 1, 2014.
Pollutant	EPA 40 CFR 60.33e(a)(2) -Incorporated in [Rule 62-204.800(9)(g), F.A.C.]	DEP [Rule 62-296.401(4), F.A.C.]																																					
CO	11 ppmv	100 ppmvd On an hourly average																																					
PM	25 (0.011) mg/dscm (gr/dscf)	0.03 gr/dscf																																					
HCL	6.6 ppmv	4 pounds/hr or 90% reduction On an hourly basis																																					
Dioxins/Furans	<a href="#">9.3 (4.1) ng/dscm (gr/Bscf[8])</a> OR 0.054 (0.024) ng/dscm TEQ (gr/Bscf TEQ)																																						
Lead	<a href="#">0.036 (0.016) mg/dscm (gr/Kscf[9])</a>																																						
Mercury	0.018 (0.0079) mg/dscm (gr/dscf)																																						
Cadmium	0.0092 (0.004) mg/dscm (gr/Kscf)																																						
<a href="#">Chromium[10]</a>		8.3 X 10 <sup>-5</sup> µg/m <sup>3</sup>																																					
SO <sub>2</sub>	9.0 ppmv																																						
NOx	140 ppmv																																						
III.A.12	<p><b>Excess Emissions:</b> Excess emissions, based on the method of operation, shall be allowed provided the permittee complies with the following restrictions:</p> <p>(1) <i>Incinerator/Biological Waste Incineration Facility</i> : Condition II.A.5 of this permit. [Rule 62-296.401(4)(b)3., F.A.C. and Air Construction Permit 0990095-001-AC, dated 9/12/1995] and</p> <p>(2) <i>Hospital/Medical/Infectious Waste Incinerator</i> : The emission limits under this permit shall apply at all times. [Rule 62-204.800(9)(d) &amp; (g), F.A.C. and 40 CFR 60.56c(a)]</p>				v	The facility conducted annual VE test on 05/09/2013.																																	

**Test Methods and Procedures**

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

III.A.13.	<p><b>Test Methods:</b> All emissions tests performed pursuant to this permit shall comply with the following Test Methods as described in Rule 62-297.401, F.A.C. and 40 CFR 60 Appendix A: [PBC-BWIF Ordinance, Rules 62-204.800(9)(d) &amp; (g) and 62-297.401, F.A.C., and 40 CFR 60.56c]</p> <ol style="list-style-type: none"> <li>(1) <i>EPA Method 1</i>, Sampling and Velocity Traverses for Stationary Sources.</li> <li>(2) <i>EPA Method 2</i>, Determination of Stack Gas Velocity and Volumetric Flow Rate.</li> <li>(3) <i>EPA Method 3</i>, Gas Analysis for Carbon Dioxide, Oxygen, Excess Air, and Dry Molecular Weight.</li> <li>(4) <i>EPA Method 3A or 3B</i>, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure).</li> <li>(5) <i>EPA Method 4</i>, Determination of Moisture Content in Stack Gases.</li> <li>(6) <i>EPA Method 5 or EPA Method 26A or EPA Method 29</i>, Determination of Particulate Emissions from Stationary Sources.</li> <li>(7) <i>EPA Method 6 or 6C</i>, Determination of Sulfur Dioxide Emissions from Stationary Sources.</li> <li>(8) <i>EPA Method 7 or 7E</i>, Determination of Nitrogen Oxide Emissions from Stationary Sources.</li> <li>(9) <i>EPA Method 9</i>, Visual Determination of the Opacity of Emissions from Stationary Sources.</li> <li>(10) <i>EPA Method 10 or 10B</i>, Determination of Carbon Monoxide Emissions from Stationary Sources.</li> <li>(11) <i>EPA Method 23</i>, Determination of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans from Stationary Sources.</li> <li>(12) <i>EPA Method 26 or 26A</i>, Determination of Hydrogen Chloride Emissions From Stationary Sources.</li> </ol>				v	
-----------	---	--	--	--	---	--

	(13) <i>EPA Method 29</i> , Determination of Metals Emissions (Pb, Cd, Hg, and Cr) from Stationary Sources.			
III.A.14	<p><b>Test Procedures:</b> The emission performance tests shall comply with the following procedures, as applicable. <b>[40 CFR 60.56c(b)1, 62-297, F.A.C.]</b></p> <p>(1) All performance tests shall consist of a minimum of three test runs conducted under representative operating conditions.</p> <p>(2) The minimum sample time for pollutant emission test shall be 1 hour per test, unless otherwise indicated.</p> <p>(3) <b>Demonstration with percent reduction (Effective until June 1, 2014) [Rule 62-204.800(9)(d), F.A.C.]:</b> If the permittee selects the percentage reduction standards for a pollutant (HCL, lead, Mercury and Cadmium), the percentage reduction in pollutant emissions (%R<sub>x</sub>) is computed using the following formula:</p> $(\% R_x) = \left( \frac{E_i - E_o}{E_i} \right) \times 100$ <p><b>Where:</b></p> <p>%R<sub>x</sub> = percentage reduction of pollutant (x) emissions achieved;</p> <p>E<sub>i</sub> = Pollutant (x) emission concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis); and</p> <p>E<sub>o</sub> = Pollutant (x) emission concentration measured at the control device outlet, corrected to 7 percent oxygen (dry basis)</p> <p>{Permitting Note: <b>Effective June 1, 2014</b>, the permittee shall not have the option of 'percent reduction' for heavy metals.}</p> <p>(4) <b>Test Procedures – Oxygen Corrections:</b> When required, pollutant concentrations shall be adjusted to 7 percent oxygen using the following equation:</p> $C_{adj} = C_{meas} (20.9 - 7) / (20.9 - \%O_2)$ <p>Where:</p> <p>C<sub>adj</sub> = pollutant concentration adjusted to 7 percent oxygen;</p> <p>C<sub>meas</sub> = pollutant concentration measured on a dry basis (20.9 - 7) = 20.9 percent oxygen—7% oxygen (defined oxygen correction basis);</p> <p>20.9 = oxygen concentration in air, percent; and</p> <p>%O<sub>2</sub> = oxygen concentration measured on a dry basis, percent.</p> <p>(5) <b>Test Procedures – Bypass Stack Usage:</b> The use of the bypass stack during a performance test shall invalidate the performance test. <b>[Rule 62-204.800(9)(d).7.a., F.A.C., and 40 CFR 60.56c(b)]</b></p>	v		
III.A.15	All emission tests pursuant to this permit shall comply with the procedures as specified below. <b>[Rules 62-204.800(9)(d), 62-204.800(9)(g), 62-296.401(4), F.A.C. 40 CFR 60.56c]</b>			
Pollutant	DEP emission limits Rule 62-296.401(4), F.A.C.	EPA Emission Limits 60.56c; Incorporated at 62- 204.800(9)	Alternate limits/procedures	
Opacity (Visible Emissions)	EPA Method 9 Duration: 60 minutes	EPA Method 9 Duration: Three hours		
Particulate Matter (PM)	EPA Method 5 or 26A Minimum sample volume required is 30 dscf	EPA Method 5 or 29	v	
Carbon Monoxide (CO)	EPA Method 10	EPA Method 10 or 10B		

Hydrochloric Acid (HCL)	EPA Method 26 or 26A	EPA Method 26 or 26A	If the permittee selects the percentage reduction standard for HCl, the percentage reduction in HCl emissions is computed using the specific condition III.A.14(3). <b>'Percent Reduction' option is not available from June 1, 2014.</b>			
Dioxins/Furans		EPA Method 23	(1) If the permittee selected the toxic equivalency standards for dioxins/furans, the following procedures shall be used to determine compliance. (i) Measure the concentration of each dioxin/furan tetra-through octa-cogener emitted using EPA Method 23. (ii) For each dioxin/furan cogener measured, multiply the cogener concentration by its toxic equivalency specified in Table 2.			
		Minimum sampling time of four (4) hours per test run is required	(III) Sum the products calculated to obtain the total concentrations of dioxins/furans emitted in terms of toxic equivalency.			
Lead (Pb)		EPA Method 29	If the permittee selects the percentage reduction standard for Pb, the percentage reduction in Pb emissions is computed using the specific condition III.A.14(3). <b>'Percent Reduction' option is not available from June 1, 2014.</b>			
Mercury (Hg)		EPA Method 29	If the permittee selects the percentage reduction standard for Hg, the percentage reduction in Hg emissions is computed using the specific condition III.A.14(3). <b>'Percent Reduction' option is not available from June 1, 2014.</b>			
Cadmium (Cd)		EPA Method 29	If the permittee selects the percentage reduction standard for Cd, the percentage reduction in Cd emissions is computed using the specific condition III.A.14(3). <b>'Percent Reduction' option is not available from June 1, 2014.</b>			
Sulfur Dioxide (SO2)		EPA Method 6 or 6C				
Nitrogen Oxides (NOx)		EPA Method 7 or 7E				
Chromium (Cr) <sup>1</sup>			Method 29 <sup>1</sup>			
<sup>1</sup> The emission limit for Chromium is a requirement under the Palm Beach County Local Ordinance (Appendix PB-BWIF)						

**Compliance Assurance Monitoring**



<p>III.A.16.</p>	<p><b>Effective June 1, 2014 -- Initial Compliance Demonstrations:</b> The permittee shall conduct an initial performance test as required in 40 CFR 60.8 to determine compliance with the emission limits for the following pollutants using the procedures and test methods listed in 40 CFR 60.56c(b)(1) through (b)(14) – <b>Sp. Conditions III.14 &amp; 15.</b> The use of the bypass stack during a performance test shall invalidate the performance test.</p> <ul style="list-style-type: none"> <li>(1) Visible Emissions,</li> <li>(2) Particulate Matter,</li> <li>(3) Carbon Monoxide,</li> <li>(4) Hydrochloric Acid,</li> <li>(5) Sulfur Dioxide,</li> <li>(6) Nitrogen Oxides,</li> <li>(7) Lead,</li> <li>(8) Cadmium,</li> <li>(9) Mercury, and</li> <li>(10) Dioxins/Furans.</li> </ul> <p><b>[Rule 62-204.800(9)(g), F.A.C., and 40 CFR 60.56c(b)]</b></p>			<p>v</p>	
<p>III.A.17</p>	<p><b>Effective June 1, 2014 - Use of Previous Emissions Test Results:</b> The permittee, subject to the emission limits under 40 CFR 60.33e(a)(2) (sp. condition no. III.A.11) may use the results of the previous emissions tests to demonstrate compliance with the emissions limits, provided the following conditions are met:</p> <ul style="list-style-type: none"> <li>(1) The facility’s previous emissions tests must have been conducted using the applicable procedures and test methods listed in 40 CFR 60.56c(b).</li> <li>(2) The HMIWI 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 tests, 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 tests.</li> <li>(3) The previous emissions tests must have been conducted in 1996 or later.</li> </ul> <p><b>[Rule 62-204.800(9)(g)7.c., F.A.C. and 40 CFR 60.37e(f)]</b></p>			<p>v</p>	
<p>III.A.18.</p>	<p><b>Annual Compliance Demonstrations:</b> During each federal fiscal year (October 1 -- September 30), the permittee, based on the method of operation, shall have a formal compliance test conducted for the following pollutants:</p> <p><i>Incinerator/Biological Waste Incineration Facility:</i> Visible Emissions, Carbon</p> <ul style="list-style-type: none"> <li>(2) Monoxide, Particulate Matter, and Hydrochloric Acid. <b>[Rules 62-296.401(4)(f).2., F.A.C.]</b></li> </ul> <p><i>Hospital/Medical/Infectious Waste Incinerator:</i> Following the date the initial</p> <ul style="list-style-type: none"> <li>(3) compliance demonstration is conducted, Visible Emissions, Carbon Monoxide, Particulate Matter, and Hydrochloric Acid.</li> </ul> <ul style="list-style-type: none"> <li>(a) The permittee shall determine compliance with opacity limit by conducting an annual performance test (no more than 12 months following the previous performance test).</li> <li>(b) For Carbon Monoxide, Particulate Matter, and Hydrochloric Acid, when all three performance tests over a 3-year period indicate compliance with the emission limit, the permittee may forego a performance test for that pollutant for the subsequent 2 years.</li> </ul> <ul style="list-style-type: none"> <li>1. At a minimum, a performance test shall be conducted every third year (no more than 36 months following the previous performance test).</li> <li>2. If a performance test conducted every third year indicates compliance with the emission limit for a pollutant, the permittee may forego a performance test for that pollutant for an additional 2 years.</li> <li>3. If any performance test indicates noncompliance with the respective emission limit, a performance test for that pollutant shall be conducted annually until all annual performance tests over a 3-year period indicate compliance with the emission limit. <b>[Rule 62-204.800(9)(d)&amp;(g), F.A.C., and 40 CFR 60.56c(c)(1) and (2)]</b></li> </ul> <p><i>{Permitting note: The annual testing requirements of the DEP are more stringent than those of the Emission Guidelines; and annual compliance testing for CO, PM and HCl will remain in effect.}</i></p>	<p>v</p>			

III.A.19.	<p><b>Effective June 1, 2014:</b> On or after June 1, 2014, any time the permittee conducts a performance test for any reason for particulate matter (PM), the permittee shall also conduct a performance test for mercury(Hg), cadmium (Cd), and lead (Pb). 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).</p> <p><b>[Rule 62-204.800(9)(g)7., F.A.C.]</b></p>		v	
III.A.20.	<p><b>Renewal Compliance Demonstrations:</b> Regardless of the method of operation, the permittee shall conduct a formal compliance test that demonstrates compliance with each applicable emission limiting standard prior to obtaining a renewed operation permit. The permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. Testing shall be conducted for the following pollutants:</p> <ul style="list-style-type: none"> <li>(1) Visible Emissions;</li> <li>(2) Particulate Matter;</li> <li>(3) Carbon Monoxide;</li> <li>(4) Hydrochloric Acid;</li> <li>(5) Sulfur Dioxide;</li> <li>(6) Nitrogen Oxides;</li> <li>(7) Lead;</li> <li>(8) Cadmium;</li> <li>(9) Chromium;</li> <li>(10) Mercury; and</li> <li>(11) Dioxins/Furans.</li> </ul> <p><b>[Rule 62-297.310(7)(a)3., F.A.C.]</b></p>	v		
III.A.21.	<p><b>Continuous Emissions Monitoring Systems (CEMS):</b> The permittee shall, based on the method of operation, continuously monitor and record the following:</p> <ul style="list-style-type: none"> <li>(2) <i>Incinerator/Biological Waste Incineration Facility:</i> Secondary (or last) combustion chamber exit temperature; and Oxygen content. <b>[Rules 62-296.401(4)(f).1.a and b., F.A.C.]</b></li> <li>(3) <i>Hospital/Medical/Infectious Waste Incinerator:</i> On and after the date of the initial compliance demonstration, the permittee may elect to use CEMS to demonstrate compliance with any emission limits provide the following conditions are met <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.56c(c)(5)</b> <ul style="list-style-type: none"> <li>Determine compliance with the appropriate emission limit(s) using a 12-hour rolling average, calculated each hour as the average of the previous 12 operating hours.               <ul style="list-style-type: none"> <li>(a) hour rolling average, calculated each hour as the average of the previous 12 operating hours.</li> <li>(b) Operate all CEMS in accordance with the applicable procedures under 40 CFR part 60, Appendices B and F.</li> </ul> </li> </ul> </li> </ul>	v		
III.A.22.	<p><b>Maximum and Minimum Operating Parameters:</b> The permittee shall:</p> <ul style="list-style-type: none"> <li>(1) Establish the appropriate maximum and minimum operating parameters, indicated in <b>Table 3 of Appendix NSPS-Ec</b>, for each control system, as site specific operating parameters during the initial performance test to determine compliance with the emission limits; and</li> <li>(2) Ensure that the emissions unit does not operate above any of the applicable maximum operating parameters or below any of the applicable minimum operating parameters listed in Table 3 of Appendix NSPS-Ec 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 following the date. 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).</li> </ul> <p><b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.56c(d)(1) and (2)]</b></p>	v		
	<p><b>Compliance Assurance:</b> Except as provided in Condition <b>III.A.24.</b> of this permit, the following activities shall constitute a violation of the specific emission limitation:</p> <ul style="list-style-type: none"> <li>(1) <i>PM Emission Limit:</i> Operation of the emissions unit 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.</li> <li>(2) <i>CO Emission Limit:</i> Operation of the emissions unit above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a 3-hour rolling average) simultaneously.</li> </ul>			

III.A.23.	<p><i>Dioxin/Furan Emission Limit</i> : 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.</p> <p>(3) <i>HCl Emission Limit</i> : Operation of the affected facility above the maximum charge rate (4) and below the minimum scrubber liquor pH (each measured on a 3-hour rolling average).</p> <p><i>Hg Emission Limit</i> : Operation of the affected facility above the maximum flue gas (5) temperature and above the maximum charge rate (each measured on a 3-hour rolling average) simultaneously.</p> <p>(6) <i>PM, dioxin/furan, HCl, Pb, Cd and Hg Emission Limits</i> : Use of the bypass stack (except during startup, shutdown, or malfunction).</p> <p><b>[Rule 62-204.800(9)(d)&amp;(g), F.A.C., and 40 CFR 60.56c(f)(1) thru (6)]</b></p>	v			
III.A.24.	<p><b>Repeat Performance Testing After a Violation</b>: The permittee may conduct a repeat performance test within 30 days of violation of applicable operating parameter(s) to demonstrate that the emissions unit is not in violation of the applicable emission limit(s). Repeat performance tests conducted pursuant to condition shall be conducted using the identical operating parameters that indicated a violation under Condition III.A.23. of this permit. <b>[Rule 62-204.800(9)(d).7.a., F.A.C., and 40 CFR 60.56c(i)]</b></p>	v			
III.A.25.	<p><b>Repeat Performance Testing Without a Violation</b>: The permittee may conduct a repeat performance test at any time to establish new values for the operating parameters. The Permitting Authority may request a repeat performance test at any time. <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 0.56c(k)]</b></p>			v	

**Monitoring Requirements**

III.A.26.	<p><b>Monitoring Devices</b>: The permittee shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed in Table 3 of Appendix NSPS-Ec such that these devices (or methods) measure and record values for these operating parameters at the frequencies indicated in Table 3 at all times. <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.57c(a)]</b></p>	v			The facility provided the records of calibration.
III.A.27.	<p><b>Bypass Duct Monitoring</b>: The permittee shall install, calibrate (to manufacturer's specifications), maintain, and operate a device or method for measuring the use of the bypass stack including date, time, and duration. <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.57c(c)]</b></p>	v			
III.A.28.	<p><b>Data Collection</b>: The permittee shall obtain 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 and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste. <b>[Rule 62-204.800(9)(d).8.a. &amp; (9)(g), F.A.C., and 40 CFR 60.57c(e)]</b></p>	v			

**Inspection Requirements [Effective June 1, 2014]**

	<p><b>Initial Equipment Inspection</b>: At a minimum, an inspection plan shall include the following:</p> <ol style="list-style-type: none"> <li>1. Inspect all burners, pilot assemblies, and pilot sensing devices for proper operation; clean pilot flame sensor, as necessary.</li> <li>2. Ensure proper adjustment of primary and secondary chamber combustion air; and adjust as necessary.</li> <li>3. Inspect hinges and door latches, and lubricate as necessary.</li> <li>4. Inspect dampers, fans, and blowers for proper operation.</li> <li>5. Inspect HMIWI door and door gaskets for proper sealing.</li> <li>6. Inspect motors for proper operation</li> <li>7. Inspect primary chamber refractory lining; clean and repair/replace lining as necessary.</li> <li>8. Inspect incinerator shell for corrosion and/or hot spots.</li> <li>9. Inspect secondary/tertiary chamber and stack, clean as necessary.</li> </ol>			v	
--	---	--	--	---	--

<p><b>III.A.29</b></p>	<p>10. Inspect mechanical loader, including limit switches, for proper operation, if applicable.</p> <p>11. Visually inspect waste bed (grates), and repair/seal, as appropriate.</p> <p>12. For the burn cycle that follows the inspection, document that the incinerator is operating properly and make any necessary adjustments.</p> <p>13. Inspect air pollution control device(s) for operation, if applicable.</p> <p>14. Inspect waste hear boiler systems to ensure proper operation, if applicable.</p> <p>15. Inspect bypass stack components.</p> <p>16. Ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment, and</p> <p>17. Generally observe that the equipment is maintained in good operating condition.</p> <p><u>Repairs:</u> Within 10 operating days following an equipment inspection all necessary repairs shall be completed unless the permittee obtains written approval from the permitting authority establishing a date whereby all necessary repairs of the incinerator shall be completed.</p> <p><u>Annual Equipment Inspection:</u> The HMIWI shall be inspected annually (no more than 12 months following the previous annual equipment inspection) as outlined in this condition.</p> <p><b>[Rule 62-204.800(9)(g)6. F.A.C. and 40 CFR 60.36e]</b></p>			
<p><b>III.A.30.</b></p>	<p><u>Air Pollution Control Device Inspection:</u> On or before June 1, 2012, the permittee shall have the air pollution control device inspected. At a minimum, the inspection shall include the following:</p> <ol style="list-style-type: none"> <li>1. Inspect wet scrubber for proper operation.</li> <li>2. Ensure proper calibration of thermocouples, sorbent feed systems, and any other monitoring equipment; and</li> <li>3. Generally observe that the equipment is maintained in good operating condition.</li> </ol> <p><u>Repairs:</u> 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 Permitting Authority establishing a date whereby all necessary repairs shall be completed.</p> <p><u>Annual Air Pollution Control Device Inspection:</u> The air pollution control device shall be inspected annually (no more than 12 months following the previous annual equipment inspection) as outlined in this condition</p> <p><b>[Rule 62-204.800(g)6. F.A.C. and 40 CFR 60.36e]</b></p>	<p>v</p>		

**Reporting And Recordkeeping Requirements**

	<p><u>Records:</u> The permittee shall maintain the following information (as applicable) for a period of at least 5 years:</p> <p>-1 <i>Calendar date of each record ;</i></p> <p>-2 <i>Records of the following data :</i></p> <ol style="list-style-type: none"> <li>(a) Concentrations of any regulated pollutant or measurements of opacity as determined by the continuous emission monitoring system (if applicable);</li> <li>(b) HMIWI charge dates, times, and weights and hourly charge rates;</li> <li>(c) Secondary chamber temperatures recorded during each minute of operation;</li> <li>(d) Liquor flow rate to the wet scrubber inlet during each minute of operation, as applicable;</li> <li>(e) Horsepower or amperage to the wet scrubber during each minute of operation, as applicable;</li> <li>(f) Pressure drop across the wet scrubber system during each minute of operation, as applicable,</li> </ol>	<p>v</p>		
--	--	----------	--	--

III.A.31.	<p>(g) Temperature at the outlet from the wet scrubber during each minute of operation, as applicable;</p> <p>(h) pH at the inlet to the wet scrubber during each minute of operation, as applicable; and</p> <p>(i) Records indicating use of the bypass stack, including dates, times, and durations.</p> <p><i>Missing Data Logs</i> : Identification of calendar days for which data on emission rates or operating parameters specified Condition III.A.31.(2) 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.</p> <p><i>Malfunction Log</i> : Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.</p> <p><i>Exceedances</i> : Identification of calendar days for which data on emission rates or operating parameters specified under Condition III.A.31.(2) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.</p> <p><i>Performance Test Records</i> : The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established, if applicable.</p> <p><i>Operator Review Training Records</i> : Records showing the names of HMIWI operators who have completed review of the information in Condition III.A.44 as required by Condition III.A.45. including the date of the initial review and all subsequent annual reviews.</p> <p><i>Operator Training Records</i> : 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</p> <p><i>Operator Qualification Records</i> : Records showing the names of the HMIWI operators who have met the criteria for qualification under Condition III.A.43 and the dates of their qualification; and</p> <p><i>Monitoring Device Calibration Records</i> : Records of calibration of any monitoring devices as required under Condition III.A.26 of this permit.</p> <p><b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.58c(b)]</b></p>			
III.A.32.	<p><b>Initial Reports: [Effective June 1, 2014]</b> The owner or operator of an affected facility shall submit the information specified in 40 CFR 60.58(c)(1) through (c)(3) no later than 60 days following the initial performance test. All reports shall be signed by the responsible official.</p> <p>(1) The initial performance test data as recorded under 40 CFR 60.56c(b)(1) through (b)(14), as applicable.</p> <p>(2) The values for the site-specific operating parameters established pursuant to 40 CFR 60.56c (d), (h), or (j), as applicable, and a description, including sample calculations, of how the operating parameters were established during the initial performance test.</p> <p>(3) The waste management plan as specified in 40 CFR 60.55c.</p> <p><b>[Rule 62-204.800(9)(g)., F.A.C., and 40 CFR 60.58c(c)(1) thru (3)]</b></p>		v	
	<p><b>Semiannual Reports:</b> The permittee shall submit a semiannual report as specified by Condition III.A.34. The report shall include the following information and shall be signed by the Responsible Official:</p> <p>(1) The values for the site-specific operating parameters established under Condition III.A.42.</p> <p>(2) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the period being reported.</p> <p>(3) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable for each operating parameter recorded for the three (3) preceding periods being reported, in order to provide the Permitting Authority with a summary of the performance of the affected facility over a 2-year period.</p>			The facility submitted the semi-annual monitoring report for the period between January

III.A.33.	<p>(4) Any information recorded under Conditions III.A.31.(3) thru (5) for the period being reported.</p> <p>(5) Any information recorded under Conditions III.A.31.(3) thru (5) for the three (3) preceding periods being reported, in order to provide the Permitting Authority with a summary of the performance of the affected facility over a 2-year period.</p> <p>(6) If a performance test was conducted during the reporting period, the results of that test.</p> <p>(7) If no exceedances or malfunctions were reported under Conditions III.A.31.(3) thru (5) for the period being reported, a statement that no exceedances occurred during the reporting period.</p> <p>(8) Any use of the bypass stack, the duration, reason for malfunction, and corrective action taken.</p> <p>(9) Information recorded in Inspection Guidelines as specified in conditions III.A.29. and III.A.30.</p> <p><b>[Rule 62-204.800(9)(d) &amp; (9)(g), F.A.C., and 40 CFR 60.58c(d)(1) thru (8), 40 CFR 60.38e(b)]</b></p>	v		and June 2013.
III.A.34.	<p><b>Semiannual Report Submittal:</b> The permittee shall submit semiannual reports containing any information recorded under Conditions III.A.31.(3) thru (5) and the information required under Condition III.A.33. no later than 60 days following the reporting period. The first semiannual reporting period ends 6 months following the submission of information in Condition III.A.32. Subsequent reports shall be submitted no later than 6 calendar months following the previous report. All reports shall be signed by the Responsible Official. <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.58c(e)]</b></p>	v		
III.A.35.	<p><b>Record Maintenance:</b> All records specified in Condition III.A.31. shall be maintained onsite in either paper copy or computer-readable format, unless an alternative format is approved by the Permitting Authority. <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.58c(f)]</b></p>	v		
III.A.36	<p><b>Inspection Records:</b> As specified in Inspection Guidelines sp. conditions III.A.29 and III.A.30, the permittee shall maintain, records of the annual equipment inspections, and the annual air pollution control device inspections, any required maintenance, and any repairs not completed within 10 days of an inspection or the timeframe established by the Department.</p> <p><b>[Rule 62-204.800(9)(g)8, F.A.C. and 40 CFR 60.38e(b)]</b></p>	v		
<b>Waste Management Plans</b>				
III.A.37.	<p><b>Biohazardous Waste Incineration Facility:</b> The permittee may apply for a waiver of the PBC-BWIF Ordinance testing requirements by documenting and demonstrating an acceptable waste minimization program for heavy metals and/or chlorine containing products. The PBC-BWIF Ordinance testing requirements may not be waived for renewal testing. <b>[Not Federally Enforceable - PBC-BWIF Ordinance]</b></p>	v		The facility requested the waiver.
III.A.38.	<p><b>Hospital/Medical/Infectious Waste Incinerator:</b> The permittee shall prepare a waste management plan. The waste management plan:</p> <p>(1) 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.</p> <p>(2) 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.</p> <p>(3) 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.</p> <p>(4) 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 emission reductions expected to be achieved, and any other environmental or energy impacts they might have.</p>	v		

	<p>The American Hospital Association publication entitled "An Ounce of Prevention: (5) Waste Reduction Strategies for Health Care Facilities" (incorporated by reference, see § 60.17) shall be considered in the development of the waste management plan.</p> <p>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.55c]</p>				
<b>Operator Training and Qualification Requirements</b>					
III.A.39.	<p><b>Operator Requirements:</b> Each operator of the unit shall successfully complete a training program meeting the requirements of 40 CFR 60.53c(c) and the annual refresher training course requirements of 40 CFR 60.53c(f), adopted and incorporated by reference at Rule 62-204.800, F.A.C.</p> <p>a. If the incinerator is modified to the extent that a Department construction permit is required, the operators shall be retrained to operate the modified incinerator.</p> <p>b. An operator's training certificate must be kept on file at the facility for the duration of the [Rule 62-296.401(4)(c)6.]</p>	v			
III.A.40.	<p><b>Hospital/Medical/Infectious Waste Incinerator, Prohibition:</b> The permittee shall not allow the emissions unit 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. [Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(a)]</p>	v			
III.A.41.	<p><b>Hospital/Medical/Infectious Waste Incinerator, Operator Training:</b> The permittee shall ensure that all operator training and qualification shall be obtained through either a State-approved program or by completing the requirements included in conditions III.A.42. and III.A.43. [Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(b)]</p>	v			
III.A.42.	<p><b>Hospital/Medical/Infectious Waste Incinerator, Training Program:</b> The permittee shall ensure that the operators receive the <u>training</u> in the following areas, if a State-approved training program is not used:</p> <p>(1) Training shall be obtained by completing an HMIWI operator training course that includes, at a minimum, the following provisions:</p> <p>(a) 24 hours of training on the following subjects:</p> <ul style="list-style-type: none"> <li>• Environmental concerns, including pathogen destruction and types of emissions;</li> <li>• Basic combustion principles, including products of combustion;</li> <li>• Operation of the type of incinerator to be used by the operator, including proper startup, waste charging, and shutdown procedures;</li> <li>• Combustion controls and monitoring; Operation of air pollution control equipment and factors affecting performance;</li> <li>• Methods to monitor pollutants (continuous emission monitoring systems and monitoring of HMIWI and air pollution control device operating parameters) and equipment calibration procedures:</li> <li>• Inspection and maintenance of the HMIWI, air pollution control devices, and continuous emission monitoring systems;</li> <li>• Actions to correct malfunctions or conditions that may lead to malfunction;</li> <li>• Bottom and fly ash characteristics and handling procedures;</li> <li>• Applicable Federal, State, and local regulations; Work safety procedures;</li> <li>• Pre- startup inspections; and</li> <li>• Recordkeeping requirements.</li> </ul> <p>(2) An examination designed and administered by the instructor.</p> <p>(3) Reference material distributed to the attendees covering the course topics.</p> <p>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(c)]</p>	v			Trainers certificates were reviewed
	<p><b>Hospital/Medical/Infectious Waste Incinerator, Operator Qualifications:</b> The permittee shall ensure that operator <u>qualification</u> is obtained by the following, if a State-approved training program is not used:</p> <p>(1) Completion of a training course that satisfies the criteria under Condition III.A.42.; and</p>				

<p><b>III.A.43.</b></p>	<p>(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.</p> <p>(3) Qualification is valid from the date on which the examination is passed or the completion of the required experience, whichever is later</p> <p>(4) 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:</p> <ul style="list-style-type: none"> <li>(a) Update of regulations;</li> <li>(b) Incinerator operation, including startup and shutdown procedures;</li> <li>(c) Inspection and maintenance;</li> <li>(d) Responses to malfunctions or conditions that may lead to malfunction; and</li> <li>(e) Discussion of operating problems encountered by attendees.</li> </ul> <p>(5) A lapsed qualification shall be renewed by one of the following methods:</p> <ul style="list-style-type: none"> <li>(a) For a lapse of less than 3 years, the HMIWI operator shall complete and pass a standard annual refresher course described in Condition <b>III.A.43.(4)</b>.</li> <li>(b) For a lapse of 3 years or more, the HMIWI operator shall complete and pass a training course with the minimum criteria described in Condition <b>III.A.42</b>.</li> </ul> <p><b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(d), (e), (f), and (g)]</b></p>	<p>v</p>			
<p><b>III.A.44.</b></p>	<p><u>Hospital/Medical/Infectious Waste Incinerator, Documentation:</u> The permittee shall maintain documentation at the facility that address the following:</p> <ul style="list-style-type: none"> <li>(1) Summary of the applicable standards under this subpart;</li> <li>(2) Description of basic combustion theory applicable to an HMIWI;</li> <li>(3) Procedures for receiving, handling, and charging waste;</li> <li>(4) HMIWI startup, shutdown, and malfunction procedures;</li> <li>(5) Procedures for maintaining proper combustion air supply levels;</li> <li>(6) Procedures for operating the HMIWI and associated air pollution control systems within the standards established under this subpart;</li> <li>(7) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;</li> <li>(8) Procedures for monitoring HMIWI emissions;</li> <li>(9) Reporting and recordkeeping procedures; and</li> <li>(10) Procedures for handling ash.</li> </ul> <p><b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(h)]</b></p>	<p>v</p>			
<p><b>III.A.45.</b></p>	<p><u>Hospital/Medical/Infectious Waste Incinerator, Review Program:</u> The permittee shall establish a program for reviewing the information listed in Condition <b>III.A.44.</b> annually with each HMIWI operator including:</p> <ul style="list-style-type: none"> <li>(1) An initial review of the information shall be conducted within 6 months after the effective date of this subpart or prior to assumption of responsibilities affecting HMIWI operation, whichever date is later.</li> <li>(2) Subsequent reviews of the information shall be conducted annually.</li> </ul> <p><b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(i)]</b></p>	<p>v</p>			
<p><b>III.A.46.</b></p>	<p><u>Hospital/Medical/Infectious Waste Incinerator, Review Program:</u> The permittee shall keep the information required by Condition <b>III.A.44.</b> 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. <b>[Rule 62-204.800(9)(d) &amp; (g), F.A.C., and 40 CFR 60.53c(j)]</b></p>	<p>v</p>			
<p><b>Federal New Source Performance Standards</b></p>					
<p><b>III.A.47.</b></p>	<p><u>Federal Requirements:</u> The permittee shall comply with applicable regulations of the following 40 CFR Part 60:</p> <ul style="list-style-type: none"> <li>(1) Appendix NSPS-A, General Provisions.</li> <li>(2) Appendix NSPS-Ce, Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators.</li> <li>(3) Appendix NSPS-Ec, Standards of Performance for Hospital/Medical/Infectious Waste Incinerators.</li> </ul>	<p>v</p>			
<p><b>III.A.48.</b></p>	<p><u>40 CFR Part 60, Subpart A:</u> The permittee shall comply with the following applicable requirements of the General Provisions:</p>				
<p><i>Applicability</i></p>	<p>40 CFR 60.1(a), (b), and (c).</p>				
<p><i>Definitions</i></p>	<p>40 CFR 60.2.</p>				
<p><i>Units and Abbreviations .</i></p>	<p>40 CFR 60.3.</p>				



Address		40 CFR 60.4 (a) and (b)(K) and as specified in		v		
Determination of Construction or Modification .		40 CFR 60.5 (a) and (b).				
Review of Plans .		40 CFR 60.6(c).				
Notification and Record Keeping .		40 CFR 60.7, except (a)(1)-(3).				
Performance Tests .		40 CFR 60.8, except (a).				
Compliance with Standards and Maintenance		40 CFR 60.11.				
Circumvention		40 CFR 60.12.				
Monitoring Requirements .		40 CFR 60.13.				
Modification		40 CFR 60.14, except (h)-(l).				
Reconstruction		40 CFR 60.15.				
Incorporations by Reference .		40 CFR 60.17.				
General Notification and Reporting Requirements .		40 CFR 60.19.				
Appendices						
Appendix A To Part 60— Test Methods						
Appendix B—Performance Specifications						
Appendix C To Part 60—Determination Of Emission Rate Change						
Appendix F To Part 60—Quality Assurance Procedures						
III.A.49.	40 CFR Part 60, Emission Guidelines Ce: The permittee shall comply with the following applicable requirements of the General Provisions:			v		
		Until June 1, 2012	Effective June 1, 2012			
	Scope .	40 CFR 60.30e	40 CFR 60.30e			
	Definitions .	40 CFR 60.31e	40 CFR 60.31e			
	Designated Facilities .	40 CFR 60.32e	40 CFR 60.32e			
	Emission Limits .	Table 1A (This is effective till June 1, 2014)	40 CFR 33e These limits will be effective from June 1, 2014			
	Inspection Guidelines	40 CFR 60.36e	40 CFR 60.36e			
	Use of Previous	NA	40 CFR 60.37e(f)			
	Reporting and	NA	40 CR 60.38e(b)			
	Compliance Times.	40 CFR 60.39e	40 CFR 60.39e			
III.A.50.	40 CFR Part 60, Subpart Ec: The permittee shall comply with the following applicable requirements of the General Provisions:			v		
		Until June 1, 2012	Effective June 1, 2012			
	Definitions .	40 CFR 60.51c.	40 CFR 60.51c.			
	Opacity Limits	40 CFR 60.52c(b) (This is effective till June 1, 2014)	40 CFR 60.52c(b)(2) These limits will be effective from June 1, 2014			
	Operating Training and Qualification	40 CFR 60.53c.	40 CFR 60.53c.			
	Waste Management Plan .	40 CFR 60.55c.	40 CFR 60.55c.			
	Compliance and Performance Testing .	40 CFR 60.56c except 60.56c(b)(14), and (c)(3)	40 CFR 60.56c except 60.56c(c)3, (c)(4), (c)(5)(ii) through (v), (c)(6), (c)(7), (e)(6) through (10), (f)(7) through (10) and (g)(6) through (10).			
	Monitoring Requirements .	40 CFR 60.57c	40 CFR 60.57c			
Reporting and Recordkeeping Requirements .	40 CFR 60.58c, except (a), (b)(2)(ii) & (b)(7).	40 CFR 60.58c(b) through (g) except 60.58c(b)(2)(xviii), (b)(2)(xix), and (b)(7)				
The permittee shall use the following toxic equivalency factors for Dioxins/Furans, when applicable. [40 CFR 60.56c(b)(11), Table 2 of 30 CFR 60 Subpart Ec]						
	Dioxin/furan congener	Toxic equivalency factor				
	2,3,7,8-tetrachlorinated dibenzo-p-dioxin	1				
	1,2,3,7,8-pentachlorinated dibenzo-p-dioxin	0.5				

III.A.51.	1,2,3,4,7,8-hexachlorinated dibenzo-p-dioxin	0.1	v				
	1,2,3,7,8,9-hexachlorinated dibenzo-p-dioxin	0.1					
	1,2,3,6,7,8-hexachlorinated dibenzo-p-dioxin	0.1					
	1,2,3,4,6,7,8-heptachlorinated dibenzo-p-dioxin	0.01					
	octachlorinated dibenzo-p-dioxin	0.001					
	2,3,7,8-tetrachlorinated dibenzofuran	0.1					
	2,3,4,7,8-pentachlorinated dibenzofuran	0.5					
	1,2,3,7,8-pentachlorinated dibenzofuran	0.05					
	1,2,3,4,7,8-hexachlorinated dibenzofuran	0.1					
	1,2,3,6,7,8-hexachlorinated dibenzofuran	0.1					
	1,2,3,7,8,9-hexachlorinated dibenzofuran	0.1					
	2,3,4,6,7,8-hexachlorinated dibenzofuran	0.1					
	1,2,3,4,6,7,8-heptachlorinated dibenzofuran	0.01					
	1,2,3,4,7,8,9-heptachlorinated dibenzofuran	0.01					
	Octachlorinated dibenzofuran	0.001					
III.A.52	The permittee shall establish the following, maximum and minimum parameters, as site specific operating parameters during the initial performance test to determine compliance with the emission limits. [40 CFR 60.56c(d), Table 3 of 40 CFR 60 Subpart Ec]		v				
	<b>Wet Scrubbers</b>					<b>Minimum frequency</b>	
	<b>Operating parameters to be monitored</b>	<b>Data measurement</b>				<b>Data recording</b>	
	Maximum operating parameters:						
	Maximum charge rate	Continuous				1 x hour	
	Maximum flue gas temperature	Continuous				1 x minute	
	Minimum operating parameters:						
	Minimum secondary chamber temperature	Continuous				1 x minute	
Minimum pressure drop across the wet scrubber	Continuous	1 x minute					
Minimum scrubber liquor flow rate.	Continuous	1 x minute					
Minimum scrubber liquor pH	Continuous	1 x minute					
III.A.53.	Schedule of Measurable and Enforceable Steps to demonstrate compliance with the emissions limits by June 1, 2014: the facility shall follow the following schedule and shall demonstrate compliance with the emissions limits, specified in condition III.A.11 by June 1, 2014. The permittee shall notify the Health Department of the progress of each step within one month of the date of implementation, as shown below.			v			
	<b>Action Item</b>	<b>Date of implementation</b>	<b>Date Done</b>				
	Obtaining services of an architectural and engineering firm regarding the air pollution control device	Jan-12	Jan-12				
	Obtaining design drawing of the air pollution control device	Dec-12	Sep-12				
	Ordering the air pollution control device	Jan-13	Oct-12				
	Obtaining the major components of the air pollution control device	Jun-13	Jan-13				
	Initiation of site preparation for installation of the air pollution control	Aug-13	Feb-13				
	Initiation of installation of the air pollution control device	Aug-13	Mar-13				
	Initial startup of the air pollution control device	Dec-13	Jun-12				
Initial compliance test of the air pollution control device	Mar-14						
III.A.54.	Common Conditions: This emissions unit is also subject to Specific Conditions III.C.1 through III.C.25. Contained in Subsection C. Common Conditions.		v				

**Subsectic This section addresses the following emissions unit(s).**

E.U.ID No.	Emissions Unit
-5	Two Fossil-fuel Fired Steam Generators.

**Emissions Unit(s) Details:**

Steam Generator Nos. 1 and 2 are natural gas fired boilers (Clever Brooks) with design heat inputs of 6.3 and 8.3 MMbtu per hour respectively. The units are subject to the emission-limiting standards of Rule 62-296.406, F.A.C., for visible emissions, and Best Available Control Technology (BACT) for particulate matter, and sulfur dioxide as determined by the Florida Department of Environmental Protection. For units of this size, BACT has been determined (July 17, 2001) to be the use of fuel oil, propane, or natural gas containing no more than 0.05% sulfur by weight. These boilers burn natural gas only.

**Operating Restrictions**

Permitted Capacity. The permittee shall not allow, cause, suffer or permit the operation of the unit in excess of the following without prior authorization from the Permitting Authority:				
--	--	--	--	--

III.B.1.	<p>(1) Steam Generator No. 1, Maximum Heat Input : 6.3 million Btu per hour (3-hour average). <b>[Not Federally Enforceable]</b></p> <p>(2) Steam Generator No. 2, Maximum Heat Input : 8.3 million Btu per hour (3-hour average). <b>[Not Federally Enforceable]</b></p> <p>{Permitting note(s): Those operating restrictions which are identified as "Not Federally Enforceable" have been included for purposes of compliance testing }</p>	v		
III.B.2.	<p><u>Methods of Operation:</u> The permittee shall not allow, cause, suffer or permit any change in the</p> <p>(1) Fossil-Fuel Fired Steam Generators : The permittee is authorized to operate the emissions units as fossil-fuel fired steam generators subject to the requirements of Rule 62-296.406, F.A.C.</p> <p>(2) Fuels : The permittee is authorized to fire natural gas, propane or low sulfur distillate oil in the emissions units.</p> <p><b>[Rules 62-4.160(2), 62-210.200 and 62-210.300, F.A.C.]</b></p>	v		
III.B.3.	<p><u>Hours of Operation:</u> The permittee is authorized to operate the emissions units continuously without prior authorization from the Permitting Authority. <b>[Rule 62-210.200, F.A.C.]</b></p>	v		
<b>Emission Limiting and Performance Standards</b>				
III.B.4.	<p><u>Visible Emissions.</u> Visible emissions shall not exceed 20 percent opacity except for one two-minute period per hour during which the opacity shall not exceed 40 percent. <b>[Rule 62-296.406(1), F.A.C.]</b></p>	v		VE Test conducted on 05/09/2013.
III.B.5.	<p><u>Particulate Matter.</u> Particulate Matter emissions shall be limited in accordance with the BACT determination. The FDEP has determined that BACT for particulate matter emissions from small boilers shall be the use of natural gas, propane, or fuel oil containing no more than 0.05% sulfur by weight. <b>[Rule 62-296.406(2), F.A.C., and BACT Determination July 17, 2001]</b></p>	v		
III.B.6.	<p><u>Sulfur Dioxide.</u> Sulfur dioxide emissions shall be limited in accordance with the BACT determination. The FDEP has determined that BACT for sulfur dioxide emissions from small boilers shall be the use of natural gas, propane, or fuel oil containing no more than 0.05% sulfur by weight. <b>[Rule 62-296.406(3), F.A.C., BACT Determination July 17, 2001]</b></p>	v		
III.B.7.	<p><u>Fuel Sulfur Content.</u> The permittee shall not fire fuels containing no more than 0.05% sulfur by weight. <b>[Rule 62-296.406, F.A.C.]</b></p>	v		
<b>Test Methods and Procedures</b>				
III.B.8.	<p><u>Visible Emissions.</u> All visible emissions tests performed pursuant to the requirements of this permit shall comply with the following provisions:</p> <p>(a) <u>Test Method :</u> The test method for visible emissions shall be DEP Method 9, incorporated in Rule 62-297.401(9), F.A.C. and 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. <b>[Rule 62-297.310(4)(a)2., F.A.C.]</b></p> <p>(b) <u>Test Procedures :</u> Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C. <b>[Rule 62-296.410(3)(c), F.A.C.]</b></p>	v		
III.B.9.	<p><u>Particulate Matter.</u> EPA Method 5, <i>Determination of Particulate Emissions from Stationary Sources</i>, 40 CFR 60, Appendix A, incorporated in Chapter 62-297, F.A.C. Test shall consist of 3 separate runs. Sampling for each run shall be at least 60 minutes. <b>[Rule 62-297.310(1) &amp; (4), F.A.C.]</b></p> <p>(a) Test shall consist of 3 separate runs. Sampling for each run shall be at least 60 minutes.</p> <p>(b) The minimum sample volume shall be 25 dry standard cubic feet per run.</p>	v		
III.B.10.	<p><u>Sulfur Dioxide.</u> EPA Methods 6, 6A, 6B, or 6C, <i>Determination of Sulfur Dioxide Emissions from Stationary Sources</i>, 40 CFR 60 Appendix A, incorporated in Chapter 62-297, F.A.C. Test shall consist of 3 separate runs. Sampling for each run shall be at least 60 minutes, incorporated in Chapter 62-297, F.A.C. <b>[Rule 62-297.310(1) &amp; (4), F.A.C.]</b></p>	v		
III.B.11.	<p><u>Sulfur Content.</u> The permittee shall determine compliance with the sulfur content of the fuel as follows: ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Health Department. <b>[Rule 62-297.310(7)(a)., F.A.C.]</b></p>	v		

**Compliance Assurance Monitoring**

III.B.12.	<u>Annual Compliance Demonstrations</u> . During each federal fiscal year (October 1 -- September 30), the permittee shall have a formal compliance test conducted for visible emissions. [Rule 62-297.310(7), F.A.C.]	√		
III.B.13.	<u>Renewal Compliance Demonstrations</u> : The permittee shall conduct a formal compliance test for visible emissions that demonstrates compliance with the standard, prior to obtaining a renewed operation permit. The permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. [Rule 62-297.310(7), F.A.C.]	√		
III.B.14.	<u>Waiver of Compliance Testing</u> : The Permitting Authority has issued a BACT Determination for particulate matter and sulfur dioxide that specifies maximum fuel sulfur content. The BACT Determination established an alternate means of determining compliance and as such the requirement to test for particulate matter and sulfur dioxide emissions has been waived unless a Special Compliance Test is requested in accordance with condition III.B.15. of this permit. [Rule 62-297.310(7)(c), F.A.C., and BACT Determination July 17, 2001]	√		
III.B.15.	<u>Special Compliance Tests</u> . When the Permitting Authority or the Florida Department of Environmental Protection, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard in this permit is being violated, it shall require the permittee to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests. [Rule 62-310(7)(b), F.A.C.]	√		
III.B.16.	<u>Fuel Analysis Log</u> : The permittee shall keep a typical analysis of each fuel stored and used on site at the facility to determine compliance with the limit on sulfur in the fuel. The permittee may use the fuel certifications provided by the fuel suppliers. [Rule 62-4.070(3), F.A.C.]	√		The facility submitted the MSDS sheet provided by the fuel suppliers

**Record Keeping Requirements**

III.B.17.	<u>Fuel Consumption Logs</u> : The permittee shall maintain a monthly log of amount of fuel burned at this emission unit. The log for the preceding month shall be completed by 10 <sup>th</sup> of next month. [Rule 62-4.070(3), F.A.C.]	√		The facility maintains the records of fuel consumed by the boilers and incinerator.
-----------	--	---	--	---

**Common Conditions**

III.B.18.	<u>Common Conditions</u> : This emissions unit is also subject to <b>Specific Conditions III.C.1 through III.C.25.</b> contained in <b>Subsection C. Common Conditions.</b>	√		
-----------	---	---	--	--

## BWF Continuous Monitoring Summary Report

<b>Facility Name:</b>	Bethesda Memorial Hospital
<b>Facility Address:</b>	2815 South Seacrest Blvd., Boynton Beach, FL 33435
<b>Air Permit Number:</b>	
<b>Name/Title of Contact:</b>	Bruce Mandigo
<b>Phone Number:</b>	561-737-7733
<b>Reporting Period:</b>	September 2012 - August 2013
<b>Date of Report:</b>	September 19, 2013

Parameters Monitored	Parameter Units	Permit Limits	Max/Min 3-Hr Avg	Number of Exceedances	Out of Compliance		CMS Downtime	
					Minutes	Percent	Hours	Percent
Charge Rate	Lbs/Hour	1000.0 Max	1623.0	2	120	0.1%	0	0.0%
Secondary Temp	Deg F	1800.0 Min	948.0	22	1,320	1.2%	3	0.2%
Flue Gas Temp	Deg F	103.0 Max	104.8	22	1,320	1.2%	0	0.0%
Scrubber Flow	GPM	245.0 Min	142.4	4	240	0.2%	2	0.1%
Scrubber pH	pH	6.7 Min	6.2	1	60	0.1%	0	0.0%
Atomizer Amps	Amps	54.0 Min	0.3	12	720	0.6%	0	0.0%
Carbon Monoxide Corrected to 7% O2	PPM	100.0 Max	303.0	2	120	0.1%	0	0.0%

<b>Total Pounds of Waste</b>	754,262
<b>Average Pounds per Hour</b>	742
<b>Average Pounds per Day</b>	3,679

<b>Number of Bypasses</b>	4
<b>Bypass Minutes</b>	81
<b>Maximum Bypass Duration</b>	70
<b>Average Bypass Duration</b>	20

<b>Operating Hours</b>	1,862
<b>Operating Days</b>	205
<b>Average Hours per Day</b>	9.1
<b>Average Days per Week</b>	3.9

## BWFI Continuous Monitoring Summary Report

<b>Facility Name:</b>	Bethesda Memorial Hospital
<b>Facility Address:</b>	2815 South Seacrest Blvd., Boynton Beach, FL 33435
<b>Air Permit Number:</b>	
<b>Name/Title of Contact:</b>	Bruce Mandigo
<b>Phone Number:</b>	561-737-7733
<b>Reporting Period:</b>	September 30, 2010 - September 6, 2013
<b>Date of Report:</b>	September 6, 2013

Parameters Monitored	Parameter Units	Permit Limits	Max/Min 3-Hr Avg	Number of Exceedances	Out of Compliance		CMS Downtime	
					Minutes	Percent	Hours	Percent
Charge Rate	Lbs/Hour	1000.0 Max	1623.0	2	120	0.0%	0	0.0%
Secondary Temp	Deg F	1800.0 Min	931.0	45	2,700	0.7%	3	0.0%
Flue Gas Temp	Deg F	103.0 Max	104.8	31	1,860	0.5%	0	0.0%
Scrubber Flow	GPM	245.0 Min	79.0	11	660	0.2%	18	0.3%
Scrubber pH	pH	6.7 Min	6.0	7	420	0.1%	1	0.0%
Atomizer Amps	Amps	54.0 Min	0.3	27	1,620	0.4%	0	0.0%
Carbon Monoxide Corrected to 7% O2	PPM	100.0 Max	361.0	9	540	0.1%	34	0.5%

<b>Total Pounds of Waste</b>	2,585,473
<b>Average Pounds per Hour</b>	687
<b>Average Pounds per Day</b>	3,489

<b>Number of Bypasses</b>	20
<b>Bypass Minutes</b>	440
<b>Maximum Bypass Duration</b>	132
<b>Average Bypass Duration</b>	22

<b>Operating Hours</b>	6,854
<b>Operating Days</b>	741
<b>Average Hours per Day</b>	9.2
<b>Average Days per Week</b>	4.8

# HMIWI Exceedance Report

<b>Facility:</b>	Bethesda Memorial Hospital	<b>APIS#:</b>	
<b>Location:</b>	2815 South Seacrest Blvd., Boynton Beach, FL 33435	<b>Report Date:</b>	September 18, 2013
<b>Parameter Monitored:</b>	Charge Rate	<b>Units:</b>	Pounds per Hour
<b>Reporting Period:</b>	January 1 - September 18, 2013	<b>Permit Limit:</b>	1000 Lbs Max (3-Hr Avg)

Date / Time	3-Hr Avg	Reason	Description	Corrective Action
07/16/13 10:11	1623.0	Unknown Cause		<i>Pro</i>
07/16/13 11:11	1623.0	Unknown Cause		

# HMIWI Exceedance Report

<b>Facility:</b>	Bethesda Memorial Hospital	<b>APIS#:</b>	
<b>Location:</b>	2815 South Seacrest Blvd., Boynton Beach, FL 33435	<b>Report Date:</b>	September 18, 2013
<b>Parameter Monitored:</b>	Charge Rate	<b>Units:</b>	Pounds per Hour
<b>Reporting Period:</b>	January - December, 2012	<b>Permit Limit:</b>	1000 Lbs Max (3-Hr Avg)

**There were no exceedances to report for this time period.**





# PM Work Order

E

EN-215906

\*EN-215906\*

Page 1 of 1

## Bethesda Memorial Hospital - Engineering Department

**Location ID:** 1-8060PP **Complete** **Work Type:** PREVENTATIVE MAINTENANCE  
**Department:** ENGINEERING **Priority:** Routine  
**Facility:** BETHESDA MEMORIAL HOSPITAL **PM Interval:** 1 Week(s)  
**Building:** BETHESDA MEMORIAL HOSPITAL **Requested:** 08/19/2013 07:14  
**Description:** ENG POWER PLANT **Complete:** 08/19/2013 08:00  
**Ph:** **Est. Start:** 08/19/2013 07:00  
**Requester:** PM Scheduler **Est. End:** 08/19/2013 08:00  
**NC Account:** 8060 **Est. Cost:**  
**Last Mod User:** FED **Printed On:** 09/05/2013 14:00 **Hours:** 1.00  
**Ref #:** **User Ref:** **Est. Hours:**  
**Contractor:** **Due Date:** 08/20/2013

**Task Code:** CAL - CALIBRATION OF PH PROBES  
**Equipment:** PH PROBES - Scrubber PH Probe Calibrations  
**Model:** 6428PO  
**Status:** CLOSED

**Supervisor:** Sementino, Mike  
**Trade:** INCINERATOR TECH

### Action Requested

CALIBRATION OF PH PROBES

Line	Date	Technician	Time Type	Account #	Shift	Hours	Ext'd
1	08/19/2013	Kelly, Timothy (TK)	R	8060	1	1.00	15.00

Hours	Labor	Parts	Other	Total
1.00	15.00	0.00	0.00	15.00

**Signature:** \_\_\_\_\_ **Approved By:** \_\_\_\_\_  
**Inspected By:** \_\_\_\_\_

**Tech Report:** CAL - CALIBRATION OF PH PROBES:  
CALIBRATE THE PH PROBES ON THE SCRUBBER SYSTEM FOR THE QUENCH TANK, THERE ARE TWO CALIBRATIONS 7PH AND 10 PH.

PULL OUT THE FLOW METER AND CHECK AND/OR CLEAN THE FLOW WHEEL SO THAT IT SPINS FREELY DUE TO CALCIUM BUILD UP ON THE AXLE SHAFT.

Completed with nothing noted.

# PM Work Order

BEE

EN-214483

\*EN-214483\*

Page 1 of 2

## Bethesda Memorial Hospital - Engineering Department

**Location ID:** 1-8060PP **Complete** **Work Type:** PREVENTATIVE MAINTENANCE  
**Department:** ENGINEERING **Priority:** Routine  
**Facility:** BETHESDA MEMORIAL HOSPITAL **PM Interval:** 1 Month(s)  
**Building:** BETHESDA MEMORIAL HOSPITAL **Requested:** 08/01/2013 07:36  
**Description:** ENG POWER PLANT **Complete:** 08/06/2013 08:30  
**Ph:** **Est. Start:** 08/01/2013 07:00  
**Requester:** PM Scheduler **Est. End:** 08/06/2013 08:30  
**Account:** 8060 **Est. Cost:**  
**Last Mod User:** FED **Printed On:** 09/05/2013 15:13 **Hours:** 1.50  
**Ref #:** **User Ref:** **Est. Hours:**  
**Contractor:** **Due Date:** 08/31/2013

**Task Code:** INSP IN - INSPECTION OF EQUIPMENT INCINERATOR/SCRUBBER **Supervisor:** Sementino, Mike  
**Equipment:** PP INCINERATOR - INCINERATOR **Trade:** INCINERATOR TECH  
**Model:** 1280A/772 **Serial:** IN 001034 **Mfgr:** CLEAVER BROOKS  
**Status:** CLOSED

### Action Requested

-> Consolidated PM items:

Monthly task: INSP IN - INSPECTION OF EQUIPMENT INCINERATOR/SCRUBBER

Weekly task: ICINPM - INCINERATOR PM

<-

Line	Date	Technician	Time	Type	Account #	Shift	Hours	Ext'd
1	08/06/2013	Kelly, Timothy (TK)	R		8060	1	1.50	22.50
		<b>Hours</b>					<b>Labor</b>	
		1.50					22.50	
							<b>Parts</b>	
							0.00	
							<b>Other</b>	
							0.00	
								<b>Total</b>
								22.50

Approved By: \_\_\_\_\_

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

Inspected By: \_\_\_\_\_

**Tech Report:** ICINPM - INCINERATOR PM:  
 MONDAY MORNING, OPEN AND CLEAN ASH FROM INCINERATOR.  
 CLEAN ASH RAMS OF ALL DEBRIS.  
 DRILL AIR COMBUSTION HOLES IN PLATES MONTHLY.  
 INSPECT REFRACTORY FOR ANY EXCESSIVE WEAR.  
 CHECK AND/OR FILL HYDRAULIC TANK  
 CHECK AND TIGHTEN HYDRAULIC HOSES AS NEEDED.  
 INSPECT, TIGHTEN AND/OR REPLACE BELTS AS NEEDED.  
 INSPECT RAMS AND PULLEYS FOR EXCESSIVE WEAR.  
 CLEAN INCINERATOR ROOM DAILY.  
 REPORT ANY DEFICIENTIES TO SUPERVISORS

INSP IN - INSPECTION OF EQUIPMENT INCINERATOR/SCRUBBER:  
 INCINERATOR AND SCRUBBER MONTHLY COMPUTER METERING CHECK LIST

RECORDING                      DISPLAY

FLUE GAS TEMPERATURE:            \_\_\_97\_\_\_                      \_\_\_98\_\_\_  
 Take hand held infrared thermometer and record/compare to display

SCRUBBER AMPERAGE:                \_\_\_62.5\_\_\_                      \_\_\_61\_\_\_  
 Take amp meter and check Atomizer Motor and record/compare to display

SCRUBBER LIQUID FLOW RATE: #1 \_\_\_\_\_                      #2 \_\_\_268\_\_\_  
 Compare the two flow meters for comparision

SCRUBBER CARBON DRAFT RESISTANCE METERS: #1 \_\_\_2.14\_\_\_                      #2 \_\_\_2.14\_\_\_

# ***PM Work Order***

**EN-214483**

**\*EN-214483\***

Page 2 of 2

**Bethesda Memorial Hospital - Engineering Department**

---

Upper and Lower Meter should read the same and the readings will fluctuate according to the speed of the scrubber blower.

Completed with nothing noted.