

## HUMAN CREMATORY



### COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE:	ANNUAL (INS1, INS2)	COMPLAINT/DISCOVER		ARMS UPDATED: 3-7-12 C.H.
AIRS ID#: 1010045 DA		ARRIVE: <u>8:00PM</u>	DEPART:	<u>10:35</u>
FACILITY NAME: DA		ГН		
	DADE CITY 33525			
OWNER/AUTHORIZE Email:	D REPRESENTATIVE: FRI	ED DRAKE PHONE Mobile:	: (904)385-888	3
CONTACT NAME: S' Email:		Mobile:	: (352)567-610	0
ENTITLEMENT PERIO	OD: 4/19/2007 / 4/19/2012 (effective date) (end date)	2		

## **Facility Section**

PART I: INSPECTION CON	<b>IPLIANCE</b> <u>STATUS</u> (check ☑ onl	y one box)
IN COMPLIANCE	MINOR Non-COMPLIANCE	SIGNIFICANT Non-COMPLIANCE

	RT II: ONSITE INTRODUCTORY MEETING         Name(s) of facility representative(s): Mr. Tom Guinan	(check 🗹 box for each	only one question)
	Brief Notes: <u>Night-shift crematory operator.</u>		
2.	Is the Authorized Representative still FRED DRAKE?	X Yes	No
3.	If different, did the facility provide an administrative update within 30 days? Is the facility contact still STEVEN HARRIS?	☐ Yes ⊠ Yes	□No □No
4.	Will facility be conducting VE test(s) during today's inspection?	$\bowtie$ Yes $\bowtie$ Yes	□No □No

#### **Emissions Unit Section** <u>2 – Matthews Power-Pak II Human Crematory (to replace EU 001)</u>

PART I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹 only one	
	box for each question)	
1. a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	🛛 Yes 🗌No	
b. If yes, were design calculations provided then to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees Fahrenheit?		
<ol> <li>Crematory unit installed after February 1, 2007?</li> <li>Date of last inspection: 11-04-09</li> </ol>	⊠ Yes ∐No ⊠ Yes ∏No	
<ul> <li>4. Past Visible Emissions (VE) tests:</li> <li>a. Was a VE test performed within each of the past 4 calendar years?</li> <li>b. Has a VE test been performed yet within the current calendar year?</li> </ul>		
<ul> <li>c. If first year of operation, was a VE test performed within 30 days of commencing operation?</li> <li>d. Date of last VE test: 3-22-11</li> </ul>	A YesNo	
<ul> <li>e. Was the VE test report filed with the compliance authority no later than 45 days after the test?</li> <li>f. Did the facility demonstrate compliance during the last VE test?</li> <li>If no, what was the problem (if known)?</li> </ul>		
PART II: <u>VISIBLE EMISSIONS TESTING</u>	(check 🗹 only one box for each question)	
<ol> <li>Was a visible emissions test conducted by the facility for this unit during this site visit?</li> <li>a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver?</li> <li>b. Was the visible emissions test conducted according to EPA Method 9?</li> </ol>	XesNo	
<ul> <li>c. The visible emission test resulted in an opacity of 0 % for the highest six minute average.</li> <li>d. Did the visible emission test demonstrate compliance with the limit?</li> <li>(5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minute</li> </ul>		
<ul> <li>2. Was a visible emissions test conducted by the inspector during this site visit?</li></ul>	YesNo	
<ul> <li>d. Did the visible emission test demonstrate compliance with the limit?</li></ul>		
If yes, what reason?	Yes XNo	
PART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check 🗹 only one box for each question)	
1. Were there any objectionable odors detected?	Yes XNo	
An upwind/downwind survey of the facility was conducted. The observed parameters were: Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)	
2. Continuous Monitoring Systems –		
a Is a continuous temperature monitoring system installed on each unit to record temperatures in the secondary chamber in accordance with the manufacturer's instructions?	XesNo	
<ul> <li>b Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence time at ∑ 1,800<sup>1</sup> □ 1,600<sup>2</sup> degrees was determined?</li></ul>	ce XesNo	

#### PART III: MONITORING/RECORDKEEPING REQUIREMENTS (continued)

c. Are the following records kept on file, available for inspection, for at least the past two years?		
1) All temperature measurements	Yes	No
<ol> <li>all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations</li></ol>	Xes Xes Xes Xes Yes	No No No No
6) Corrective maintenance performed on systems/devices	🛛 Yes	No
<ul> <li>d. Are the temperature charts properly documented with operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markingse. Was the crematory unit installed after 2/1/07? If no, skip e.(1) – (3)</li></ul>	ally ⊠Yes ⊠Yes ~ ⊠Yes	<ul> <li>No</li> <li>No</li> <li>No</li> <li>No</li> <li>No</li> </ul>
PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check 🗹 box for each	only one question)
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> </ul> </li> </ol>	Yes	No

b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the	e cremation
process begins in the primary chamber?	Yes

# 2. If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the: a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber? ------ ∑ Yes □..No b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremation process begins in the primary chamber? ------ ∑ Yes □..No

PA	ART V: <u>ALLOWED MATERIALS</u>	(check $\mathbf{\nabla}$ box for each	
1.	<i>Other than</i> human or fetal remains with appropriate containers or clothing, are any materials, including biomedical wastes, incinerated in the unit?	Yes	⊠No
2.	Do cremation containers contain no more than 0.5 % (percent) by weight chlorinated plastics as certified by the manufacturer?	⊠ Yes ⊠ Yes	□No □No

...No

PART VI: <u>EQUIPMENT MAINTENANCE</u>		(check 🗹 box for each	only one question)
1. Is the crematory unit maintained in accordance with the ma	anufacturer's specifications?	Yes	No
<ol> <li>Is there a written plan onsite which addresses the operating shutdown and malfunction?</li> <li>Does the crematory allow for a visible check on the flame of If no, skip a. – b.</li> <li>a. Was the flame characteristic visually checked at least or b. Was the flame adjusted when necessary?</li> </ol>	characteristics?	Yes	□No ⊠No □No □No
PART VII: EU INSPECTION COMPLIANCE STATUS	(check 🗹 only one box)		
IN COMPLIANCE MINOR Non-COMPLIA	ANCE SIGNIFICANT Non-COMPL	JANCE	
Facility Se SPECIAL CONDITIONS AND PROCEDURES	ction (continued)	(check 🗹	only one
<ul> <li><u>Administrative Changes</u>:         <ol> <li>Were there any changes in the name, address, or phone nurassociated with a change in ownership or with a physical reoperations comprising the facility; or any other similar miniparties of the facility provide written notification within 30 New or Modified Process Equipment or Change in Ownership</li> <li>Since the last registration form submittal has there been</li></ol></li></ul>	elocation of the facility or any emissions united and the facility? for administrative change at the facility? 0 days of the change?	its or - Yes - Yes - Yes - Yes - Yes - Yes - Yes - Yes	n question)
Chris Haines	3-7-12		
Inspector's Name (Please Print)	Date of Inspection		
	3-7-15		
Inspector's Signature	Approximate Date of Next Insp	pection	
<b>COMMENTS:</b> I (Chris Haines) arrived at the facility at appr		1. 6.1	

**COMMENTS:** I (Chris Haines) arrived at the facility at approximately 8:00AM in order to conduct my audit of the VE test being performed by Mr. Lynn Robinson from Southern Environmental. The test was conducted with one adult cadaver, weighing 190 lbs. No visible emissions were observed coming from the stack. After the VE Test, Mr. Guinan, the crematory operator, allowed me to conduct my inspection. I first inspected the unit; the pollution monitor seemed to be in good working order, the unit was up-to-temperature, and good housekeeping practices were used. I asked to see and maintenance and service record. I checked his records and saw that the unit was last serviced in 2009. The unit's services are done "as required" in the manual. Mr. Guinan does all of the preventative maintenance and thermocouple replacements himself. I checked the past 2 years of records and was only able to find

one semi-issue where Mr. Guinan did not mark the chart to reflect an unusual circumstance with the size of a cadaver. I made sure that he had the other required paperwork and concluded my inspection with Mr. Guinan at approximately 10:35AM.