

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DISCOVERY (CI) RE-INSPECTION (FUI) ARMS COMPLAINT NO:				
AIRS ID#: 0950126 DATE: <u>8/26/2011</u> ARRIVE: <u>1:30 PM</u> DEPART	T: <u>3:30 PM</u>			
FACILITY NAME: BALDWIN-FAIRCHILD FUNERAL HOMES-IVANHOE				
FACILITY LOCATION: 301 NE IVANHOE BLVD				
ORLANDO 32804-6442				
OWNER/AUTHORIZED REPRESENTATIVE: LIAM SMITH PHONE: (407)898-81 Email: Mobile: PHONE: Mobile: CONTACT NAME: PHONE: Mobile: Email: Mobile: Mobile: ENTITLEMENT PERIOD: 8/6/2009 / 8/6/2014 Mobile:	111			
Facility Section				
PART I: INSPECTION COMPLIANCE STATUS (check I only one box)				
IN COMPLIANCE IMINOR Non-COMPLIANCE SIGNIFICANT Non-COMP	LIANCE			
PART II: <u>ONSITE INTRODUCTORY MEETING</u>	(check \square only one			
1. Name(s) of facility representative(s): <u>Liam Smith</u>	box for each question)			
Brief Notes:				
2. Is the Authorized Representative still LIAM SMITH?	YesNo			

3.	Is the facility contact still ?	🛛 Yes	No
	If no, who is?:		
4.	Will facility be conducting VE test(s) during today's inspection?	Xes Yes	No
	If yes, was the compliance authority notified at least 15 days in advance?	🛛 Yes	No

If different, did the facility provide an administrative update within 30 days? ------ Yes

...No

Emissions Unit Section <u>1 – Human Crematory-unit#1w/prim/2ndary chmbrs,NG fired,150lb/hr</u>

PART I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹 only box for each ques	y one tion)					
 a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989? b. If yes, were design calculations provided then to confirm a sufficient volume in the 	Xes .	.No					
 secondary chamber combustion zone to provide for at least a 1.0 second gas residence tin at 1800 degrees Fahrenheit? 2. Crematory unit installed after February 1, 2007? 3. Date of last inspection: 4/20/2010 	🛛 Yes 🗌.	.No .No					
 4. Past Visible Emissions (VE) tests: a. Was a VE test performed within each of the past 4 calendar years? b. Has a VE test been performed yet within the current calendar year? 		.No .No					
 c. If first year of operation, was a VE test performed within 30 days of commencing operation? d. Date of last VE test: 4/20/2010 	N/A Yes .	.No					
 e. Was the VE test report filed with the compliance authority no later than 45 days after the test f. Did the facility demonstrate compliance during the last VE test?		.No .No					
PART II: <u>VISIBLE EMISSIONS TESTING</u>	(check 🗹 only box for each ques	y one tion)					
PART II: VISIBLE EMISSIONS TESTING 1. Was a visible emissions test conducted by the facility for this unit during this site visit?	box for each ques						
 Was a visible emissions test conducted by the facility for this unit during this site visit? a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? 	box for each ques	tion) .No .No					
 Was a visible emissions test conducted by the facility for this unit during this site visit? a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? b. Was the visible emissions test conducted according to EPA Method 9? c. The visible emission test resulted in an opacity of 0 % for the highest six minute average. d. Did the visible emission test demonstrate compliance with the limit? 	box for each ques	tion) .No .No .No					

If yes, what reason?

P.	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check ☑ box for each	2
1.	Were there any objectionable odors detected? An upwind/downwind survey of the facility was conducted. The observed parameters were:	Yes	⊠No
	Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)	
2.	Continuous Monitoring Systems –		
	Is a continuous temperature monitoring system installed on each unit to record temperatures in the secondary chamber in accordance with the manufacturer's instructions?	Yes	No
b	Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence time at $[] 1,800^1$ $[] 1,600^2$ degrees was determined?	Xes Yes	No
	(Application of initial notification. Received on of after 8/30/89, Received before 8/30/89)		

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
	 all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	⊠ Yes -⊠ Yes ⊠ Yes	□No □No □No
	5) Preventive maintenance performed on systems/devices	🛛 Yes	No
	6) Corrective maintenance performed on systems/devices	🛛 Yes	No
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 markings	🛛 Yes	No
e.	Was the crematory unit installed after $2/1/07$? If no, skip e.(1) – (3)	Yes	🖾No
	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatica	lly	
	control combustion based on continuous in-stack opacity measurement?	Yes	No
	(2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity		
	exceeds 15% opacity ?	Yes	No
	(3) Has the opacity measurement system been cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule?	Yes	No

PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES

(check \square only one box for each question)

1.	If the application to construct was <u>BEFORE</u> August 30, 1989 is the: a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? Yes	No
	b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the cremation process begins in the primary chamber? ————————————————————————————————————	No
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? Xes	No
	b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremation process begins in the primary chamber? Xes	□No

PA	ART V: <u>ALLOWED MATERIALS</u>	(check 🗹 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	XNo
2.	Do cremation containers contain no more than 0.5 % (percent) by weight chlorinated plastics as certified by the manufacturer?	⊠ Yes ⊠ Yes	□No □No

PART VI: EQUIPMENT MAINTENANCE	(check ☑ box for each	•
1. Is the crematory unit maintained in accordance with the manufacturer's specifications?	Xes Yes	No
2. Is there a written plan onsite which addresses the operating procedures during startup, shutdown and malfunction?	Xes	No
3. Does the crematory allow for a visible check on the flame characteristics?	Yes	No
If no, skip a. – b. a. Was the flame characteristic visually checked at least once during each operating shift? b. Was the flame adjusted when necessary?		□No □No

PART VII: <u>EU INSPECTIO</u>	N COMPLIANCE STATUS (check	☑ only one box)
IN COMPLIANCE	MINOR Non-COMPLIANCE	SIGNIFICANT Non-COMPLIANCE

Emissions Unit Section 2 – Human Crematory-unit#2w/prim/2ndarychmbrs,NG fired,150lbs/hr

PA	ART I: <u>FILE REVIEW PRIOR TO INSPECTION</u>	(check ☑ box for each	
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	Xes Yes	No
3.	 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? Crematory unit installed after February 1, 2007? Date of last inspection: 4/20/2010 	⊠ Yes □ Yes	□No ⊠No
4.	Past Visible Emissions (VE) tests:a. Was a VE test performed within each of the past 4 calendar years?b. Has a VE test been performed yet within the current calendar year?	Yes Yes	□No ⊠No
	 c. If first year of operation, was a VE test performed within 30 days of commencing operation? d. Date of last VE test: 4/20/2011 	Yes	No
	 d. Date of last VE test: 4/20/2011 e. Was the VE test report filed with the compliance authority no later than 45 days after the test? f. Did the facility demonstrate compliance during the last VE test? If no, what was the problem (if known)? 		□No □No
PA	ART II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each	only one question)
	ART II: <u>VISIBLE EMISSIONS TESTING</u> Was a visible emissions test conducted by the facility for this unit during this site visit?	box for each - Xes Yes Yes	
	Was a visible emissions test conducted by the facility for this unit during this site visit?	box for each - ⊠ Yes - ⊠ Yes - ⊠ Yes	question)
1.	 Was a visible emissions test conducted by the facility for this unit during this site visit?	box for each → Yes → Yes - × Yes	question)
1.	 Was a visible emissions test conducted by the facility for this unit during this site visit?	box for each - ○ Yes - ○ Yes	question)

PA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check 🗹 box for each	only one question)
1.	Were there any objectionable odors detected?	Yes	⊠No
	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)	
	Continuous Monitoring Systems –		
	Is a continuous temperature monitoring system installed on each unit to record temperatures in the secondary chamber in accordance with the manufacturer's instructions?	Yes	No
b	Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence time at $\boxed{1,800^1}$ $\boxed{3,600^2}$ degrees was determined?	Xes Yes	No

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
	2) all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	Xes	□No
	3) All CEMS or monitoring device calibration checks (last performed on (5/1/2011)	-X Yes	No
	4) Adjustments	🛛 Yes	No
	5) Preventive maintenance performed on systems/devices	🛛 Yes	No
	6) Corrective maintenance performed on systems/devices	🛛 Yes	No
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 markings	🛛 Yes	No
e.	Was the crematory unit installed after $2/1/07$? If no, skip e.(1) – (3)	Yes	🖾No
	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatica	lly	
	control combustion based on continuous in-stack opacity measurement?	Yes	No
	(2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity	_	_
	exceeds 15% opacity ?	Yes	LNo
	(3) Has the opacity measurement system been cleaned and checked for proper operation in	—	—
	accordance with the manufacturer's recommended maintenance schedule?	Yes	No

PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES

(check \square only one box for each question)

1.	If the application to construct was <u>BEFORE</u> August 30, 1989 is the: a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? Yes b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the cremation	No
	process begins in the primary chamber? Yes	No
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? Xes	No
	b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremation process begins in the primary chamber? ————————————————————————————————————	No

PART V: <u>ALLOWED MATERIALS</u>			only one question)
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	XNo
2.	Do cremation containers contain no more than 0.5 % (percent) by weight chlorinated plastics as certified by the manufacturer?		⊠No □No

PART VI: <u>EQUIPMENT MAINTENANCE</u>	(check ☑ box for each	
1. Is the crematory unit maintained in accordance with the manufacturer's specifications?	- 🛛 Yes	No
2. Is there a written plan onsite which addresses the operating procedures during startup, shutdown and malfunction?	Yes	No
 Does the crematory allow for a visible check on the flame characteristics? If no, skip a. – b. 		No
a. Was the flame characteristic visually checked at least once during each operating shift?b. Was the flame adjusted when necessary?		□No □No

PART VII: <u>EU INSPECTION</u>	<u>NCOMPLIANCE STATUS</u> (check	\checkmark only one box)
IN COMPLIANCE	MINOR Non-COMPLIANCE	SIGNIFICANT Non-COMPLIANCE

Facility Section (continued)

SPECIAL CONDITIONS AND PROCEDURES	(check ☑ box for each	only one question)
 <u>Administrative Changes</u>: 1. Were there any changes in the name, address, or phone number of the facility or authorized representati associated with a change in ownership or with a physical relocation of the facility or any emissions units operations comprising the facility; or any other similar minor administrative change at the facility? 2. If yes, did the facility provide written notification within 30 days of the change?	s or Ves	⊠No □No
 If yes, did the facility provide written notification within 50 days of the change? <u>New or Modified Process Equipment or Change in Ownership</u>: Since the last registration form submittal has there been	☐ Yes ☐ Yes ☐ Yes	□No □No □No □No □No □No

Bill Rhodes

Inspector's Name (Please Print)

8/26/201	8	8/2	26/	20)1	1
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Date of Inspection

8/26/2012

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: Bill Rhodes, representing Orange County Environmental Protection Division, arrived at the facility at approximately 1:30 PM to audit two V.E.s. Persons present at the facility included, Liam Smith, Care Center Manager, representing Baldwin-Fairchild Funeral Homes, Joey Luckado, Director of Operations and Solange C. Dao, P.E., representing LEFTI, and Todd Clark, Environmental Technician/VE reader from Southern Environmental. Visible emission compliance testing was done on both EU-001, Crawford C1000, and EU-002, Matthews Power Pak II. No plastic containers are used at this facility during the cremation process. One hour V.E.s were audited and the observed opacity for both units was 0%. Both units were operating at designed capacity of 150 lbs/hr. Mr. Luckado used a Fluke 714 meter to test the thermocouple on each cremation unit against the strip chart reading, and the the digital reading. On the Matthews unit, the Fluke meter reading was 1697 degrees F, the strip chart reading was 1700 degrees F, and the digital reading was 1695 degrees F. On the Crawford unit, the Fluke meter reading was 1756 degrees F, the

strip chart reading was 1760 degrees F, and the digital reading was 1759 degrees F. The strip charts for the entire month of February 2011 were reviewed, and all readings below 1600 degrees F., were explained, as well as the number of cremations in a day, cumulative. All cremations are recorded in a permanent logbook, as required. The facility appears to be in compliance with their permit requirements at this time. There were no noticeable odors noted during the entire test.