

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

IN	<u> </u>	IT/DISCOVERY (CI) MPLAINT NO:						
ΑI	IRS ID#: 0870057 DATE: <u>06-23-2011</u> ARRIVE:	DEPART:						
FA	FACILITY NAME: BIG COPPITT CREMATORY							
FA	ACILITY LOCATION: U.S. HIGHWAY 1, MM 10.5							
	BIG COPPITT KEY 33040							
CC	WNER/AUTHORIZED REPRESENTATIVE: J DEAN Email: ONTACT NAME: J DEAN Email: NTITLEMENT PERIOD: 10/9/2009 / 10/9/2014 (effective date) (end date)	PHONE: (305)294-1066 Mobile: PHONE: (305)294-1066 Mobile:						
Facility Section								
PART I: INSPECTION COMPLIANCE STATUS (check ☑ only one box) ☐ IN COMPLIANCE ☑ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE								
D 4								
	Name(s) of facility representative(s): Peter, Crematory Operator	(check ☑ only one box for each question)						
	Brief Notes: Bill and Kaye Arlington, Arlington Environmental Services	es, Inc., performed a VE test						
2.	Is the Authorized Representative still J DEAN?							
3.	If different, did the facility provide an administrative update within 30 da Is the facility contact still J DEAN?							
4.	Will facility be conducting VE test(s) during today's inspection?							

Emissions Unit Section 1 – Human Crematory-prim/2ndary chambers, LP fired, 100 lbs/hr

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? b. If yes, were design calculations provided then to confirm a sufficient volume in the	⊠ Yes	□No	
3.	secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees Fahrenheit?	⊠ 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? c. If first year of operation, was a VE test performed within 30 days of commencing	⊠ Yes ⊠ Yes	□No □No	
	operation? N/A d. Date of last VE test: 07-08-2010 e. Was the VE test report filed with the compliance authority no later than 45 days after the test?	☐ Yes ☐ Yes	□No	
	f. Did the facility demonstrate compliance during the last VE test? If no, what was the problem (if known)?		□No	
PA	ART II: <u>VISIBLE EMISSIONS TESTING</u>	(check v box for each of	only one question)	
1.	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?	⊠ Yes	□No □No □No	
	 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? (5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minutes 		□No	
2.	Was a visible emissions test conducted by the inspector during this site visit?	⊠ Yes ⊠ Yes	□No □No □No	
3.	d. Did the visible emission test demonstrate compliance with the limit?		□No ⊠No	
	If yes, what reason?	163	ZJ1 V 0	
			7	
PA	RT III: MONITORING/RECORDKEEPING REQUIREMENTS	(check ☑ box for each of	only one question)	
1.	Were there any objectionable odors detected? An upwind/downwind survey of the facility was conducted. The observed parameters were:	Yes	⊠No	
2	Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)		
a	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	
D	Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence time at $\boxtimes 1,800^1 \ \square \ 1,600^2$ degrees was determined?	⊠ Yes	□No	

PA	PART III: MONITORING/RECORDKEEPING REQUIREMENTS (continued)				
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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	Yes	<u></u> No		
	3) All CEMS or monitoring device calibration checks (last performed on ()	⊠ Yes ⊠ Yes	□No □No		
	5) Preventive maintenance performed on systems/devices 6) Corrective maintenance performed on systems/devices		□No □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	ПNo		
e.	Was the crematory unit installed after $2/1/07$? If no, skip e.(1) – (3)	Yes	□No ⊠No		
	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatica control combustion based on continuous in-stack opacity measurement?	lly ☐ 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		
PA	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check 🗹	only one		
		box for each	question)		
1.	If the application to construct was BEFORE August 30, 1989 is the:	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	question)		
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	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		
	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 on ☐ Yes ☐ Yes	□No		
	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? b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the cremati process begins in the primary chamber?	☐ Yes on ☐ Yes ☐ Yes	□No		
	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 on ☐ Yes ☐ Yes on	□No □No □No		
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2. P A	If the application to construct was BEFORE 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 on ☐ Yes ☐ Yes ☐ Yes on ☐ Yes con ☐ Yes don ☐ Yes	□No □No □No only one		
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PART VI: EQUIPMENT MAINTENANCE		(check ☑ only one box for each question)				
1. Is the crematory unit maintained in accordance with the mar	nufacturer's specifications?	Yes	□No			
2. Is there a written plan onsite which addresses the operating partial shutdown and malfunction?			□No			
3. Does the crematory allow for a visible check on the flame cl If no, skip a. – b.	naracteristics?	- Yes	⊠No			
a. Was the flame characteristic visually checked at least one b. Was the flame adjusted when necessary?			□No □No			
PART VII: EU INSPECTION COMPLIANCE STATUS (check 🗹 only one box)					
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIAN	NCE SIGNIFICANT Non-COMPL	JANCE				
Facility Section (continued)						
SPECIAL CONDITIONS AND PROCEDURES		(check ✓ box for each	l only one th question)			
Administrative Changes:						
 Were there any changes in the name, address, or phone numassociated with a change in ownership or with a physical reloperations comprising the facility; or any other similar mines. If yes, did the facility provide written notification within 30 	ocation of the facility or any emissions un or administrative change at the facility?	its or - 🔲 Yes	⊠No □No			
$\underline{New\ or\ Modified\ Process\ Equipment\ or\ Change\ in\ Ownership}:$						
3. Since the last registration form submittal has there been						
Barbara Nevins	06-23-2011					
Inspector's Name (Please Print)	Date of Inspection					
Barbara Nevins	06-23-2012					
Inspector's Signature	Approximate Date of Next Ins	pection				
COMMENTS: No emissions, only heat waves, were observed and I checked the temperature gauge and chart recorder, finding was started when the cremation started, and the cadaver was 160 cooled off earlier than needed to complete the cremation. The cold I did not observe any alarm lights lit on the control panel. I did	g the temperature below 1600 degrees and 0 lbs. At 100 lbs per hour, the data indicate operator was no longer on site to explain.	dropping. The ted that the cr	ne VE test ematory			



Crematory building with stack on roof



Temperature 1336 degrees after approximately 1 hr 10 minutes





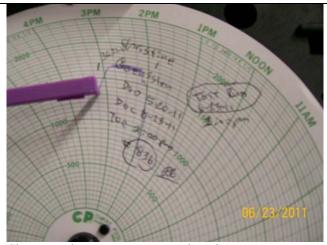


Chart recorder, note temperature dropping



Control panel, close-up in next photo frame



Note pollution control switch in off position