

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) RE-INSPECTION (FUI)		· · · —						
AIRS ID#: 0870059 DATE: <u>12-03-13</u>	ARRIVE: 1000 hrs	DEPART: <u>1200 hrs</u>						
FACILITY NAME: BIG PINE KEY								
FACILITY LOCATION: 31140 OVERSEA	AS HWY							
BIG PINE KEY	33043							
	: ROBERT DEAN* Mobile PHON Mobile (8/2017 date)	E:						
Facility Section PART I: INSPECTION COMPLIANCE STATUS (check ☑ only one box) ☑ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE								
PART II: ONSITE INTRODUCTORY MEETING. 1. Name(s) of facility representative(s): Jeffrey Do		(check ☑ only one box for each question)						
2. Is the Authorized Representative still ROBERT If no, who is?:	DEAN*?							
If different, did the facility provide an administr 3. Is the facility contact still? If no, who is?: <u>Jeffrey Dean</u>								
4. Will facility be conducting VE test(s) during too If yes, was the compliance authority notified at								

Emissions Unit Section 1 – MODEL IE-43-PPII Crematory W/AFTERBURNER

2. C3. I4. F aa bb cc dd ee f f	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	box for each	_
2. C3. I4. F aa bb cc dd ee f f	after August 30, 1989?	⊠ Yes	
2. C 3. I 4. F a b c d e f 1. V a b c d d		⊠ Yes	
2. C 3. I 4. F a b c d e f 1. V a b c d d	of the second design calculations provided then to confirm a sufficient volume in the		□No
3. I 4. F a a b c c d d e e f f	secondary chamber combustion zone to provide for at least a 1.0 second gas residence time		
3. I 4. F a a b c c d d e e f f	at 1800 degrees Fahrenheit?	Yes	□No
4. Fast description of the second of the sec	Crematory unit installed after February 1, 2007?	Yes	⊠No
aa bb cc dd ee f f l l l l l l l l l l l l l l l l	Date of last inspection: 06-23-2011 Past Visible Emissions (VE) tests:		
PAF 1. Vaa b	a. Was a VE test performed within each of the past 4 calendar years?	⊠ Yes	□No
PAF 1. Vaa b	b. Has a VE test been performed yet within the current calendar year?		□No
PAR 1. Va a b	e. If first year of operation, was a VE test performed within 30 days of commencing	_ ,,	
PAR 1. Va a b	operation?	☐ Yes	□No
1. V a b	e. Was the VE test report filed with the compliance authority no later than 45 days after the test?	⊠ Yes	□No
1. V a b	E. Did the facility demonstrate compliance during the last VE test?		□No
1. V a b	If no, what was the problem (if known)?		
1. V a b			
a b c	RT II: <u>VISIBLE EMISSIONS TESTING</u>	(check 🗹	only one
a b c		box for each	question)
a b c	Was a visible emissions test conducted by the facility for this unit during this site visit?	- X Yes	□No
c d	a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? 160'		□No
d	b. Was the visible emissions test conducted according to EPA Method 9?	- 🛚 Yes	□No
d	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?	Yes	□No
□ (:	5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minutes	s in any one-hour)
2. V	Was a visible emissions test conducted by the inspector during this site visit?	- \square Yes	⊠No
a	a. Was the test conducted with the unit operating at a capacity of one (1) adult-sized cadaver?	☐ Yes	□No
b	b. Was the visible emissions test conducted according to EPA Method 9?] []	
	YesNo c. The visible emission test resulted in an opacity of % for the highest six minute average.		
	d. Did the visible emission test demonstrate compliance with the limit?	- Yes	□No
3. I	Is there any reason to ask for a special test to determine compliance with the PM and CO standa	_	5
Ţ	If yes, what reason?	∐ Yes	⊠No
1	r yes, what reason:		
			-
PAF	RT III: MONITORING/RECORDKEEPING REQUIREMENTS	(check 🗹	only one
		box for each	•
1 X	Were there any objectionable odors detected?	Yes	⊠No
	An upwind/downwind survey of the facility was conducted. The observed parameters were:		⊠N0
	Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)	
2 6			
	Cantinuous Manitaring Systems		
S	Continuous Monitoring Systems — (s a continuous temperature monitoring system installed on each unit to record temperatures in the		
b I	s 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
	s a continuous temperature monitoring system installed on each unit to record temperatures in the		□No
a I			

PART III: MONITORING/RECORDKEEPING REQUIREMENTS (continued)						
c.	Are the following records kept on file, available for inspection, for at least the past two years?	K 7 * 7	_ ,,			
	 All temperature measurements all continuous monitoring systems, monitoring devices, and performance testing measurements; 	⊠ Yes	∐No			
	monitoring system all continuous performance evaluations	⊠ Yes	□No			
	3) All CEMS or monitoring device calibration checks (last performed on (see comment)	- Xes	□No			
	4) Adjustments 5) Preventive maintenance performed on systems/devices	Yes	□No			
	6) Corrective maintenance performed on systems/devices 6) Corrective maintenance performed on systems/devices		∐No ∏No			
A	Are the temperature charts properly documented with operator name, operator indication of					
u.	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			
İ	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatical control combustion based on continuous in stack operative measurement?	llly Yes	□No			
1	control combustion based on continuous in-stack opacity measurement?(2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity	□ 1 cs	□140			
	exceeds 15% opacity?	☐ Yes	□No			
	(3) Has the opacity measurement system been cleaned and checked for proper operation in	□ Vac	□ NT.			
_	accordance with the manufacturer's recommended maintenance schedule?	Yes	∐No			
_		(-1-aals	[7] _{1ma}]			
PA	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check box for e	✓ only one ach question)			
		OOM II.	den questissi,			
1						
1.	If the application to construct was BEFORE August 30, 1989 is the:					
1.	a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F	□ Yes	□ No			
1.	 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 crematic 		□No			
1.	a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?		□No			
	 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 crematic process begins in the primary chamber?	on				
	 a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on Yes	No			
	 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 crematic process begins in the primary chamber? If the application to construct ON or AFTER 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? 	on ☐ Yes ⊠ Yes				
	 a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on ☐ Yes ⊠ Yes	No			
	 a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on ☐ Yes ☐ Yes on	No			
	 a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on Yes	No			
2.	 a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on Yes Yes Yes Yes (check				
2.	 a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on Yes Yes Yes Yes (check	No			
2. P A	a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————	on Yes Yes Yes Yes (check				
2. P A	a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————	on Yes Yes Yes Yes (check				
2. PA	a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	on Yes	NoNoNo only one ach question)			
2. PA	a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————	on Yes Yes Yes (check box for e	NoNoNo only one ach question)			

PART VI: EQUIPMENT MAINTENANCE		(check 🗹 box for each	only one question)					
1. Is the crematory unit maintained in accordance with the manufact	curer's specifications?	X Yes	□No					
2. Is there a written plan onsite which addresses the operating proce shutdown and malfunction?		⊠ Yes	□No					
3. Does the crematory allow for a visible check on the flame characters.	eristics?	Yes	⊠No					
If no, skip a. – b. a. Was the flame characteristic visually checked at least once dur b. Was the flame adjusted when necessary?			□No □No					
PART VII: EU INSPECTION COMPLIANCE STATUS (check ☑ only one box)								
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE	SIGNIFICANT Non-COMPL	IANCE						
Facility Section (continued)								
SPECIAL CONDITIONS AND PROCEDURES		(check ☑ box for each	•					
Administrative Changes:								
 Were there any changes in the name, address, or phone number of associated with a change in ownership or with a physical relocation operations comprising the facility; or any other similar minor address, did the facility provide written notification within 30 days 	on of the facility or any emissions unininistrative change at the facility?	ts or Yes	⊠No □No					
New or Modified Process Equipment or Change in Ownership:								
3. Since the last registration form submittal has there been		-	NoNoNoNoNoNo					
sacrimited so days prior to the change.								
Barbara Nevins	12-03-2013							
Inspector's Name (Please Print)	Date of Inspection							
Barbara Nevins	12-03-2018							
Inspector's Signature	Approximate Date of Next Insp	pection						

COMMENTS: Mr. Dean said that the unit was serviced within the last year, including calibration of the monitoring system. He said he would email me a copy of the calibration certification following the inspection. The cadaver was wrapped in a sheet and a layer of polyethylene.

A VE test was performed by Bill Arlington. I remained on site for the duration of the 1 hr test. Mr. Arlington said he observed 0 emissions through-out the test.