

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DIS RE-INSPECTION (FUI) ARMS COMPLA	SCOVERY (CI) INT NO:				
AIRS ID#: 0950022 DATE: <u>11/21/2013</u> ARRIVE: <u>8:50 AM</u> DEPART: <u>10:25 AM</u>					
FACILITY NAME: METRO CREMATORY					
FACILITY LOCATION: 751 S Bluford Ave					
OCOEE 34761-2942					
Email: CONTACT NAME: JIM TRAMONTE	PHONE: (407)656-8781 Mobile: PHONE: (407)656-8781 Mobile:				
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): Michael Stephens/Cremator Operator Brief Notes:	(check ☑ only one box for each question)				
2. Is the Authorized Representative still JIM TRAMONTE?					
If different, did the facility provide an administrative update within 30 days? -3. Is the facility contact still JIM TRAMONTE?					
4. Will facility be conducting VE test(s) during today's inspection? If yes, was the compliance authority notified at least 15 days in advance?					

Emissions Unit Section 3 – Human Crematory-primary/2ndary chambers, LPG fired

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹 box for each o	only one 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: 11/21/12 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	RT II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each o	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 2.3 % 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	□No □No □No
3.	d. Did the visible emission test demonstrate compliance with the limit?		□No
	If yes, what reason?	Yes	⊠No
PA	RT III: MONITORING/RECORDKEEPING REQUIREMENTS	(check 🗹 box for each o	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 $\boxtimes 1,800^1 \ \square \ 1,600^2$ degrees was determined?	☐ Yes	□No

PA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS (continued)		
1	RI III. MOMITORINO/RECORDINEDIA INO REQUIREMENTALIA (COMMISSE)		
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	□No
	3) All CEMS or monitoring device calibration checks (last performed on (7/22/13) 4) Adjustments	- X Yes X Yes	∐No □ No
	4) Adjustments	⊠ Yes ⊠ Yes	∐No □No
	6) Corrective maintenance performed on systems/devices	Yes	□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
	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatica		
	control combustion based on continuous in-stack opacity measurement?	Yes Yes	∐No
ı	(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	105	
_	accordance with the manufacturer's recommended maintenance schedule?	☐ Yes	□No
P/	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check 🗹	only one
1.	RTIV. DECOMDART COMBUSTION BOTH TEMP BILLY CARD	box for each	•
1.	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	∏No
	b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic		140
	process begins in the primary chamber?	Yes	□No
2.	If the application to construct ON or AFTER August 30, 1989 is the:	<u> </u>	_
	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 crematic		□ NT.
	process begins in the primary chamber?	⊠ Yes	∐No
	PROFESSION AND AND MEDICAL CO.	(check ☑	only one
PA	ART V: ALLOWED MATERIALS	box for each	•
		UUA 101 cucii .	Jucstion,
1.	Other than human or fetal remains with appropriate containers or clothing, are any materials,		
	including biomedical wastes, incinerated in the unit?	- Yes	⊠No
,	The state of the s		
۷.	Do cremation containers contain no more than 0.5 % (percent) by weight chlorinated plastics as certified by the manufacturer?	⊠ Yes	□No
İ	If yes, is the certifying documentation from the manufacturer kept on file for at least 2 years from use?	⊠ Yes	□No

PART VI: <u>EQUIPMENT MAINTENANCE</u>	(check ☑ box for each	only one question)	
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? 3. Does the crematory allow for a visible check on the flame characteristics? 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?	- X Yes	No No No No	
PART VII: <u>EU INSPECTION COMPLIANCE STATUS</u> (check ✓ only one box)			
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE			

Emissions Unit Section 4 – Human Crematory-primary/2ndary chambers, LPG fired

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹 box for each o	only one 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?	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	
PA	PART II: <u>VISIBLE EMISSIONS TESTING</u> (check ☑ only one box for each 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	□No □No □No	
3.	d. Did the visible emission test demonstrate compliance with the limit?	rds?	□No	
	If yes, what reason?	∐ Yes	⊠No	
PA	RT III: MONITORING/RECORDKEEPING REQUIREMENTS	(check ☑ box for each of	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 $\boxtimes 1,800^1 \square 1,600^2$ degrees was determined?	⊠ Yes	□No	

PA	ART 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	⊠ Yes	□No
	3) All CEMS or monitoring device calibration checks (last performed on (7/22/13)		□No □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 □ Yes	∐No ⊠No
E.	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatical (1) and (2) (3) (3) (4) (4) (5) (5) (6) (7)		<u> </u>
	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?(3) Has the opacity measurement system been cleaned and checked for proper operation in	∐ Yes	∐No
	accordance with the manufacturer's recommended maintenance schedule?	☐ Yes	□No
_	**************************************		
D/	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check 🗹	only one
1 1	ART IV: SECUNDART COMBUSTION ZONE TEMI ERATURES	box for each	-
1.	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?		□No
	b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?	on 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?	⊠ Yes	∏No
	b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic	ion	
	process begins in the primary chamber?	× Yes	□No
PA	ART V: <u>ALLOWED MATERIALS</u>	(check ☑ box for each	•
1.	Other than 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

PART VI: EQUIPMENT MAINTENANCE		(check 🗹	only one
		box for each	question)
1. Is the crematory unit maintained in accordance with the ma	nufacturer's specifications?	X Yes	□No
2. Is there a written plan onsite which addresses the operating shutdown and malfunction?	procedures during startup,	🛛 Yes	□No
3. Does the crematory allow for a visible check on the flame of	characteristics?	X Yes	□No
If no, skip a. – b. a. Was the flame characteristic visually checked at least or b. Was the flame adjusted when necessary?			□No □No
DADE VIII. EVI INCRECEVON COMPLIANCE CELEVIC	/ l l		
PART VII: EU INSPECTION COMPLIANCE STATUS	(check ☑ only one box)		
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIA	NCE SIGNIFICANT Non-COMP	LIANCE	
Facility Se SPECIAL CONDITIONS AND PROCEDURES	ction (continued)	/ 1 · □	
DI DOME COMPANION IN TROCEDORES		(check ☑ box for each	only one question)
Administrative Changes:		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1
1. Were there any changes in the name, address, or phone nur associated with a change in ownership or with a physical re operations comprising the facility; or any other similar min 2. If yes, did the facility provide written notification within 30 New or Modified Process Equipment or Change in Ownership	elocation of the facility or any emissions upor administrative change at the facility? days of the change?	nits or 	⊠No □No
3. Since the last registration form submittal has there been		\ Yes	⊠No
a. Installation of any new process equipment?		Yes	⊠No
b. Alterations to existing process equipment withoutc. Replacement of existing equipment with equipment			⊠No ⊠No
d. A change in ownership?			⊠No
If the any answer to 3a. – d. is Yes, was a new registration form and the appropriate fee submitted 30 days prior to the change?			□No
Ilka Bundy and Omar Horta	11/21	/2013	
Inspector's Name (Please Print)	Date of Inspection		
	11/21/2014		
Inspector's Signature	Approximate Date of Next In	spection	

COMMENTS: The inspectors, Ilka Bundy and Omar Horta, met with Todd Clark, consultant for Southern Environmental Sciences, Inc., on Novemeber 21, 2013, to audit the compliance test on two human cremation units, EU003 and EU004. Michael Stephens, certified cremator operator, was also present for the compliance test. EU003 had some black smoke observed intermittently during the first 7 minutes of the test. Emissions did not exceed 15% opacity. The auditor had a 6-minute average of 2.3% opacity. EU004 had no emissions observed. Each unit was charged with an adult body. No objectionable odors were detected. Natural gas is the fuel used for both units and not liquid propane gas, as listed in ARMS. Strip chats were reviewed for both units. All required documentation was marked on the charts, as required. Strip charts were available for review for the past 5 years. The facility appears to be in compliance with the air permit at this time.