

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) RE-INSPECTION (FUI)	COMPLAINT/D	DISCOVERY (CI) [AINT NO:		
AIRS ID#: 0112702 DATE: <u>11/21/11</u>	ARRIVE: <u>1350</u>	DEP	ART: <u>1600</u>	
FACILITY NAME: DEERFIELD BEACH CREMAT	ГORY			
FACILITY LOCATION: 1921 NW 40TH CT				
POMPANO BEACH	33064-8719			
OWNER/AUTHORIZED REPRESENTATIVE: DANIEL D'ANDREA PHONE: (954)491-0490 Email: Dan.D'Andrea@sci-us.com Mobile: (954)647-6655 CONTACT NAME: DANIEL D'ANDREA PHONE: (954)491-0490 Email: Dan.D'Andrea@sci-us.com Mobile: (954)491-0490 Email: Dan.D'Andrea@sci-us.com Mobile: (954)647-6655 ENTITLEMENT PERIOD: 11/6/2011 / 11/6/2016 (effective date) (end date) (end date)				
	Facility Section			
PART I: INSPECTION COMPLIANCE STATUS	(check 🗹 only one box	()		
IN COMPLIANCE MINOR Non-CO	MPLIANCE SIC	GNIFICANT Non-C	OMPLIANCE	
PART II: ONSITE INTRODUCTORY MEETING			(check 🗹 only one	
1. Name(s) of facility representative(s): <u>Dan D'Andrea</u>	<u>a</u>		box for each question)	
Brief Notes:				
 Is the Authorized Representative still DANIEL D'Al If no, who is?: 	NDREA?		XesNo	
If different, did the facility provide an administrative 3. Is the facility contact still DANIEL D'ANDREA? If no, who is?:	e update within 30 days?	?	YesNo YesNo	

4.	Will facility be conducting VE test(s) during today's inspection?	Yes	No
	If yes, was the compliance authority notified at least 15 days in advance?	🛛 Yes	No

Emissions Unit Section <u>1 – HumanCrematory-unit#1,prim/2ndarychmbrNGtempM&R,opacM100#/hr</u>

P	ART I: FILE REVIEW PRIOR TO INSPECTION		
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	Xes Yes	No
		⊠ Yes ⊠ Yes	□No □No
	Date of last inspection: 8/24/10 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?	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?If no, what was the problem (if known)?	⊠ Yes ⊠ Yes	□No □No

PART II: VISIBLE EMISSIONS TESTING

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 ⊠ Yes ⊠ 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?		No
2.	Was a visible emissions test conducted by the inspector during this site visit?	 Yes Yes Yes 	⊠No □No □No
3.	d. Did the visible emission test demonstrate compliance with the limit? Is there any reason to ask for a special test to determine compliance with the PM and CO standar		∐No
	If yes, what reason?		

PART III: MONITORING/RECORDKEEPING REQUIREMENTS

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- 0 Wind direction - Upwind odor level detected-	(1-10)	
	Continuous Monitoring Systems –		
а	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
	(Application or initial notification: ¹ received on or after 8/30/89; ² 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
	 2) all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations 3) All CEMS or monitoring device calibration checks (last performed on ()	⊠ Yes □ Yes □ Yes	□No □No □No
	5) Preventive maintenance performed on systems/devices	T 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	L.No
e.	Was the crematory unit installed after $2/1/07$? If no, skip e.(1) – (3)	🛛 Yes	L.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

PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES

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 b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the cremation 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? X Yes b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremation process begins in the primary chamber? X Yes	□No □No

PART V: ALLOWED MATERIALS

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

PART VI: EQUIPMENT MAINTENANCE

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?	Xes Yes	No
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?	Yes	□No □No □No

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

Emissions Unit Section <u>2 – HumanCrematory-unit#2,prim/2ndarychmbrNGtempM&R,opacM100#/hr</u>

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P/	ART I: <u>FILE REVIEW PRIOR TO INSPECTION</u>	(check 🗹	only one
		box for each	
1	a. Complete AC application or, if no AC permit, initial GP registration received on or		1
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	T 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		ļ
	at 1800 degrees Fahrenheit?	T Yes	□No
2.	Crematory unit installed after February 1, 2007?	\Box Yes	\square No
3.	Date of last inspection:		
	Past Visible Emissions (VE) tests:		ļ
	a. Was a VE test performed within each of the past 4 calendar years?	Yes	No
	b. Has a VE test been performed yet within the current calendar year?		No
	c. If first year of operation, was a VE test performed within 30 days of commencing	—	
l	operation? N/A	Yes	No
	d. Date of last VE test:	_	!
	e. Was the VE test report filed with the compliance authority no later than 45 days after the test?		No
	f. Did the facility demonstrate compliance during the last VE test?	- 🗌 Yes	No
L	If no, what was the problem (if known)?		
-			
P /	ART II: VISIBLE EMISSIONS TESTING	(check 🗹	only one
		box for each	
		DOX 101 Cach	question
1.	Was a visible emissions test conducted by the facility for this unit during this site visit?		No
	a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver?	· 🗌 Yes	No
	b. Was the visible emissions test conducted according to EPA Method 9?	- 🗌 Yes	□No
			ļ
	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?		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	Was a visible emissions test conducted by the inspector during this site visit?	- 🗌 Yes	□No
۷.	a. Was the test conducted with the unit operating at a capacity of one (1) adult-sized cadaver?		\square No
	 b. Was the visible emissions test conducted according to EPA Method 9? 		\square No
	c. The visible emission test resulted in an opacity of % for the highest six minute average.	. [] 103	
	 d. Did the visible emission test demonstrate compliance with the limit? 	🗌 Yes	No
3.	Is there any reason to ask for a special test to determine compliance with the PM and CO standa		L
-		Yes	No
	If yes, what reason?		_
	· · ·		
р	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(-haalt 🔽	
L r	ANT III; MUNITORING/RECORDIREE ING RECOIREMENTS	(check 🗹	only one
		box for each	question)
1.	Were there any objectionable odors detected?	- 🗌 Yes	No
1.	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)	
1			
2.	Continuous Monitoring Systems –		
	Is a continuous temperature monitoring system installed on each unit to record temperatures in the		

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secondary chamber in accordance with the manufacturer's instructions?	Yes	No
Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence		
time at \Box 1,800 ¹ \Box 1,600 ² degrees was determined?	Yes	No
(Application or initial notification: ¹ received on or after 8/30/89; ² received before 8/30/89)		
	secondary chamber in accordance with the manufacturer's instructions?	secondary chamber in accordance with the manufacturer's instructions? Yes 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? Yes

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	Yes	No
	3) All CEMS or monitoring device calibration checks (last performed on ()	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)	TYes	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 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 b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the cremation process begins in the primary chamber? Yes	□No □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 b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremation process begins in the primary chamber? Yes	□No □No

PART 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	No
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
 Is there a written plan onsite which addresses the operating procedures during startup, shutdown and malfunction?	 Yes Yes Yes Yes 	No No No No No

PART VII: EU INSPECTION COMPLIANCE STATUS (check 🗹 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)
Administrative Changes:		
 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? If yes, did the facility provide written notification within 30 days of the change?	s or Xes	□No □No
New or Modified Process Equipment or Change in Ownership:		
 3. Since the last registration form submittal has there been	 Yes Yes Yes Yes Yes Xes Xes 	□No ⊠No ⊠No □No □No

Art Pennetta

Inspector's Name (Please Print)

11/21/11

Date of Inspection

11/12

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: