

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INS	PECTION TYPE:	ANNUAL (INS1, INS2) RE-INSPECTION (FUI)	COMPLAINT/E ARMS COMPL		(CI)		
AIR	RS ID#: 0112146 DA 7	ΓΕ: <u>3/20/13</u>	ARRIVE: <u>1230</u>		DEPART: <u>1445</u>		
FAC	CILITY NAME: AB	CO-FT LAUDERDALE					
FAC	CILITY LOCATION	820 NW 57TH ST					
		FT LAUDERDALE	33309-2827				
I CO I	NER/AUTHORIZE Email: Owen@abco.o NTACT NAME: O Email: Owen@abco.o FITLEMENT PERIO	WEN DAY	5/2016	PHONE: Mobile: PHONE: Mobile:	(954)772-5262 (954)592-6266 (954)772-5262 (954)592-6266		
PAI	Facility Section PART I: INSPECTION COMPLIANCE STATUS (check ☑ only one box) ☑ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE						
1. 1		resentative(s): Owen Day					only one question)
	Is the Authorized Repr	resentative still OWEN DAY	7?		🖂	Yes	□No
3. I	If different, did the factor is the facility contact so if no, who is?:	ility provide an administrativitill OWEN DAY?	we update within 30 days?			Yes Yes	□No □No
4. V	Will facility be conduc	eting VE test(s) during today ance authority notified at least				Yes Yes	□No □No

${\bf Emissions~Unit~Section} \\ {\bf 1-HumanCrematory-prim/2ndarychmbrNG, temp M\&R, opacityM, 100 lbs/hr}$

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:	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
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 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
	If yes, what reason? Broward County code required PM & CO testing every 5 years	⊠ 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)	
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
υ	time at $\boxtimes 1,800^1$ $\square 1,600^2$ degrees was determined?	⊠ 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. All temperature measurements	
 2) all continuous monitoring systems, monitoring devices, and performance testing meass monitoring system all continuous performance evaluations 3) All CEMS or monitoring device calibration checks (last performed on () 4) Adjustments	
5) Preventive maintenance performed on systems/devices 6) Corrective maintenance performed on systems/devices	
 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 e. Was the crematory unit installed after 2/1/07? If no, skip e.(1) – (3)	
(1) Is the crematory unit equipped and operated with a pollutant monitoring system control combustion based on continuous in-stack opacity measurement?(2) Is the system calibrated to restrict combustion in the primary chamber whenever	YesNo
exceeds 15% opacity?(3) Has the opacity measurement system been cleaned and checked for proper operations.	YesNo ation in
accordance with the manufacturer's recommended maintenance schedule?	YesNo
PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check 🗹 only one box for each question)
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 1 throughout the combustion process in the primary chamber? b. secondary chamber combustion zone temperature equal to or greater than 1400°F before process begins in the primary chamber?	re the cremation
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 that	
throughout the combustion process in the primary chamber? b. secondary chamber combustion zone temperature equal to or greater than 1600°F befo process begins in the primary chamber?	re the cremation
b. secondary chamber combustion zone temperature equal to or greater than 1600°F befo	re the cremation
b. secondary chamber combustion zone temperature equal to or greater than 1600°F befo process begins in the primary chamber?	re the cremation
b. secondary chamber combustion zone temperature equal to or greater than 1600°F befo	YesNo re the cremation

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			
 Is there a written plan onsite which addresses the operating procedures during startup, shutdown and malfunction?	- Yes	NoNoNo			
PART VII: EU INSPECTION COMPLIANCE STATUS (check only one box)	LANGE				
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE					

${\bf Emissions~Unit~Section} \\ {\bf 2-HumanCrematory-prim/2ndarychmbrNG, temp M\&R, opacityM, 100 lbs/hr}$

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:	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
PA	ART II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each of	only one question)
1.	Was a visible emissions test conducted by the facility for this unit during this site visit?	⊠ 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?		□No
Э.	If yes, what reason?	Yes	⊠No
PA	RT 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)	
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
υ	time at $\boxtimes 1,800^1$ $\square 1,600^2$ degrees was determined?	⊠ Yes	□No

P/	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	\boxtimes	Yes	□No		
	2) all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	\square	Yes	ПNо		
	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	\boxtimes	Yes	∐No		
d.	Are the temperature charts properly documented with operator name, operator indication of		*7	□ 		
a	when cremation in the primary chamber was begun, date, time, and temperature markings	X	Yes Yes	∐No ⊠No		
Е.	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatical	ılly	1 68	△ N O		
	control combustion based on continuous in-stack opacity measurement?		Yes	□No		
1	(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	Ш	Yes	∐No		
	accordance with the manufacturer's recommended maintenance schedule?	П	Yes	□No		
	decordance with the management of the second	_	100			
D/	A DOUBLE COARD A DAY COMPLICATION TONIE TEMPED A THEE	(cl	heck 🗹	only one		
I F	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	,		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?		\mathbf{v}_{∞}	□No		
	b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic		168	NO		
	process begins in the primary chamber?		Yes	□No		
2.	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?		Yes	□No		
	b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?		Yes	□No		
	process begins in the primary chamber:	K	1 05			
_				-11		
P /	DADT V. ALLOWED MATERIALS					
	PT V- ALLOWED MATERIALS	(cl	heck 🗹	only one		
}	ART V: ALLOWED MATERIALS		heck 🗹 for each	only one question)		
1.	Other than human or fetal remains with appropriate containers or clothing, are any materials,	box	for each	question)		
1.		box				
	Other than human or fetal remains with appropriate containers or clothing, are any materials, including biomedical wastes, incinerated in the unit?	box	for each	question)		
	Other than human or fetal remains with appropriate containers or clothing, are any materials,	box	for each	question)		

PART VI: EQUIPMENT MAINTENANCE	(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?	☐ Yes	NoNoNoNo			
PART VII: EU INSPECTION COMPLIANCE STATUS (check ☑ only one box)					
IN COMPLIANCE MINOR Non-COMPLIANCE SIGNIFICANT Non-COMPLIANCE					

${\bf Emissions~Unit~Section} \\ {\bf 3-HumanCrematory-prim/2ndarychmbrNG, temp M\&R, opacityM, 100 lbs/hr}$

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹 box for each o	only one question)
	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
	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:	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?	⊠ Yes ⊠ Yes	□No □No
PA	RT II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each	only one question)
	Was a visible emissions test conducted by the facility for this unit during this site visit?	⊠ 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
	Was a visible emissions test conducted by the inspector during this site visit?	Yes Yes	⊠No □No □No
	d. Did the visible emission test demonstrate compliance with the limit?		□No
	If yes, what reason?	Yes	□No
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PA	RT III: MONITORING/RECORDKEEPING REQUIREMENTS	(check ✓ box for each of	only one question)
1.	Were there any objectionable odors detected?	Yes	⊠No
2	Downwind odor level detected- Wind direction - Upwind odor level detected- Continuous Monitoring Systems -	(1-10)	
a	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
υ	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)					
	(** * * * * * * * * * * * * * *					
c.	Are the following records kept on file, available for inspection, for at least the past two years? 1) All temperature measurements	✓ Yes✓ Yes✓ Yes✓ Yes✓ Yes✓ Yes✓ Yes	NoNoNoNoNoNoNo			
	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 ☐ Yes ☐ Yes ☐ Yes ☐ Yes 	□No □No □No □No			
	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check ☑ box for each	only one question)			
	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? ————————————————————————————————————		□No □No			
	b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremati process begins in the primary chamber?	_	□No			
PA	ART V: ALLOWED MATERIALS	(check ☑ box for each	only one question)			
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 manufacture	er's specifications?	⊠ Yes	□No
2. Is there a written plan onsite which addresses the operating procedur shutdown and malfunction?		⊠ Yes	□No
3. Does the crematory allow for a visible check on the flame characteri	stics?	Yes	□No
If no, skip a. – b. a. Was the flame characteristic visually checked at least once during 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 (c SPECIAL CONDITIONS AND PROCEDURES	ontinued)	(check ☑	only one
		box for each	•
 Administrative Changes: Were there any changes in the name, address, or phone number of the associated with a change in ownership or with a physical relocation operations comprising the facility; or any other similar minor admin If yes, did the facility provide written notification within 30 days of New or Modified Process Equipment or Change in Ownership:	of the facility or any emissions uni istrative change at the facility? the change?ent?substantially different?	ts or	NoNoNoNoNoNoNoNoNoNoNo
Art Pennetta	3/20/13		
Inspector's Name (Please Print)	Date of Inspection		
	3/14		
Inspector's Signature	Approximate Date of Next Insp	pection	
COMMENTS:			