

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DISCOVERY (CI) RE-INSPECTION (FUI) ARMS COMPLAINT NO:				
AIRS ID#: 0250944 DATE: 7/23/2013 ARRIVE: 10:05AM DEPART:	11:05AM			
FACILITY NAME: ALLEN & SHAW-OPA LOCKA FACILITY				
FACILITY LOCATION: 13931 NW 20TH CT				
OPA-LOCKA 33054-4117				
OWNER/AUTHORIZED REPRESENTATIVE: VERL SHAW Email: CONTACT NAME: VERL SHAW Email: ENTITLEMENT PERIOD: 5/31/2014 / 5/31/2019 PHONE: (305)681-142 Mobile: Mobile:				
(effective date) (end date)				
Facility Section PART I: INSPECTION COMPLIANCE STATUS (check ☑ only one box) ☑ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE				
PART II: ONSITE INTRODUCTORY MEETING	(check ☑ only one			
1. Name(s) of facility representative(s): <u>Patricia Nowak</u>	box for each question)			
Brief Notes:				
2. Is the Authorized Representative still VERL SHAW?	⊠ Yes □No			
If different, did the facility provide an administrative update within 30 days? 3. Is the facility contact still VERL SHAW? If no, who is?:	☐ Yes ☐No ☐ Yes ☐No			
4. Will facility be conducting VE test(s) during today's inspection?	☐ Yes			

Emissions Unit Section 1 – Human Crematory-primary&2ndary chambers,NG fired,150#/hr

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check ☑ only one box for each 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	
2. 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: 12/4/2013 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	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 Yes		
	 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	
2.	Was a visible emissions test conducted by the inspector during this site visit? a. Was the test conducted with the unit operating at a capacity of one (1) adult-sized cadaver? b. Was the visible emissions test conducted according to EPA Method 9? □ □ □ □ □ □ □ □ □ □ □	☐ Yes	⊠No □No	
	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	
	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	
	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	
	time at \Box 1,800 ¹ \Box 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	X Ye	es	□No
	2) all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	X Ye	NG.	П No
	3) All CEMS or monitoring device calibration checks (last performed on ()	□ Y€		□No
	4) Adjustments	X Ye		No
	5) Preventive maintenance performed on systems/devices	∑ Ye		∐No
_	6) Corrective maintenance performed on systems/devices	∑ Ye	es	∐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	X Ye	v.G	□No
e.	Was the crematory unit installed after $2/1/07$? If no, skip e.(1) – (3)	□ Y€		□No
	(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatical	ıll <u>y</u>		_
	control combustion based on continuous in-stack opacity measurement?		es	∐No
	(2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity?	☐ Ye	es	□No
	(3) Has the opacity measurement system been cleaned and checked for proper operation in			
	accordance with the manufacturer's recommended maintenance schedule?	☐ Y€	es	□No
				Ā
PA	ART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(chec		only one
		DOX 101	eacn	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?b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the cremati		es	∐No
	process begins in the primary chamber?	.on	es	□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?	X Ye	es	□No
	b. secondary chamber combustion zone temperature equal to or greater than 1600 °F before the cremati process begins in the primary chamber?	on X	. c	∏No
	process begins in the primary entimoer.		,,,	
P	ART V: ALLOWED MATERIALS	(chec	k 🗹	only one
				question)
		DOX 101		1
1	Other their hymner or fatal remains with appropriate containing or elething one any materials	00% 101		,
1.	Other than human or fetal remains with appropriate containers or clothing, are any materials, including biomedical wastes, incinerated in the unit?	_	es	_
	including biomedical wastes, incinerated in the unit?	☐ Y€	es	⊠No
		_		_

PART VI: <u>EQUIPMENT MAINTENANCE</u>	(check ☑ box for each	•			
1. Is the crematory unit maintained in accordance with the manufacturer's specifications?	- Xes	□No			
2. Is there a written plan onsite which addresses the operating procedures during startup, shutdown and malfunction?	⊠ 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 INSPECTION COMPLIANCE STATUS</u> (check ☑ only one box)					
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE					

Emissions Unit Section 2 – Human Crematory-primary&2ndary chambers,NG fired,150#/hr

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹 box for each	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
2.	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: 12/4/2013	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)?		□No □No
PA	RT II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each	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 % 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? a. Was the test conducted with the unit operating at a capacity of one (1) adult-sized cadaver? b. Was the visible emissions test conducted according to EPA Method 9?	☐ Yes	⊠No □No
	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
	If yes, what reason?	Yes	⊠No
PA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check ☑ box for each	only one question)
1.	Were there any objectionable odors detected?	Yes	⊠No
	Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)	
2.	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 \Box 1,800 1 \Box 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?		
1) All temperature measurements	Yes	□No
2) all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	⊠ 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	⊠ 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 markingse. Was the crematory unit installed after $2/1/07$? If no, skip e.(1) – (3)	Yes Yes	∐No ⊠No
(1) Is the crematory unit instance after 2/1/07: If no, skip e.(1) = (3)		☑Ν0
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
PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check 🗹	only one
THREE TV BECOMBINE COMBESTION BOTH TERM ERRITCHED		-
	box for each	question)
1. If the state of the property of the state	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	box for each	question)
a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F		question)
 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 	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?	☐ Yes	
 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
 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	No
 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
 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
 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 Xes	NoNoNo
 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 Xes	NoNoNo
 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 ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
 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 ☐ Yes ☐ Yes	NoNoNo only one
 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 ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
 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 ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
 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 (check box for each	NoNoNo only one question)
 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 (check box for each	NoNoNo only one 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	□No □No □No □No			
o. Thus the frame adjusted when necessary.	ZJ 103				
PART VII: EU INSPECTION COMPLIANCE STATUS (check ☑ only one box)					
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE					

Emissions Unit Section 3 – Human Crematory-primary&2ndary chambers,NG fired,150#/hr

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check ✓ box for each	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
2.	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: 12/4/2013	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)?		□No □No
PA	RT II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each	only one question)
1.	Was a visible emissions test conducted by the facility for this unit during this site visit?	Yes Yes	NoNoNo
	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? (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
	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
	If yes, what reason?	Yes	⊠No
			_
PA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check ☑ box for each	only one question)
1.	Were there any objectionable odors detected?	Yes	⊠No
	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 \Box 1,800 1 \Box 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?	_	_
1) All temperature measurements	⊠ Yes	□No
2) all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	⊠ 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 6) Corrective maintenance performed on systems/devices		∐No ∏No
	Z 105	
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)	Yes	⊠No
(1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatical		□ N.
control combustion based on continuous in-stack opacity measurement?(2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity	Yes	∐No
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
	(check ☑	only one
PART IV: <u>SECONDARY COMBUSTION ZONE TEMPERATURES</u>	box for each	
	box for each	question)
	box for each	question)
1. If the application to construct was BEFORE August 30, 1989 is the:	box for each	question)
a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F		
 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 crematical combustion. 	☐ Yes	question)
a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?	☐ Yes	
 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
 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 □No
 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
 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 □No
 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	NoNoNo
 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	NoNoNoNo
 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 ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
 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	NoNoNo only one
 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 (check box for each	NoNoNo only one question)
 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 ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
 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 (check box for each	NoNoNo only one question)
 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	NoNoNo only one 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	□No □No □No □No			
o. Thus the frame adjusted when necessary.	ZJ 103				
PART VII: EU INSPECTION COMPLIANCE STATUS (check ☑ only one box)					
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE					

Emissions Unit Section 4 – Human Crematory-primary&2ndary chambers,NG fired,150#/hr

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check ☑ only one box for each 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	
	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: 12/4/2013 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?		□No	
PA	RT II: <u>VISIBLE EMISSIONS TESTING</u>	(check ☑ box for each	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 % 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? a. Was the test conducted with the unit operating at a capacity of one (1) adult-sized cadaver? b. Was the visible emissions test conducted according to EPA Method 9? □ □ □ □ □ □ □ □ □	☐ Yes	□No □No	
	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	
	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	
	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	
	time at \Box 1,800 ¹ \Box 1,600 ² degrees was determined?	Yes	□No	

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	No No No No						
PART VII: EU INSPECTION COMPLIANCE STATUS (check ✓ only one box) ☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE								

Emissions Unit Section 5 – Human Crematory-primary&2ndary chambers,NG fired,150#/hr

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check ☑ box for each	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	
2.	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: 12/4/2013	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)?		□No □No	
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?	Yes	⊠No □No □No	
	 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? (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	
	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	
	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	
	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 \Box 1,800 1 \Box 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? 1) All temperature measurements	⊠ Yes	□No					
all continuous monitoring systems, monitoring devices, and performance testing measurements; monitoring system all continuous performance evaluations	⊠ Yes □ Yes	□No □No					
4) Adjustments5) Preventive maintenance performed on systems/devices	Yes Yes	□No □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 e. Was the crematory unit installed after 2/1/07? If no, skip e.(1) – (3)	⊠ Yes □ Yes	□No □No					
 (1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatical control combustion based on continuous in-stack opacity measurement?	lly □ Yes	□No					
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					
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 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	☐ Yes	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? b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?	☐ Yes						
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 crematic	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 crematic process begins in the primary chamber? 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 	☐ 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 crematic process begins in the primary chamber? 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? b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic 	☐ Yes Dn ☐ Yes ☐ Yes ☐ Yes	□No □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 crematic process begins in the primary chamber? 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? b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber? 	☐ Yes On Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	NoNoNo only one					
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? b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber? 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? b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber? PART V: ALLOWED MATERIALS	☐ Yes On Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one					

PART VI: EQUIPMENT MAINTENANCE		(check 🗹 box for each	
1. Is the crematory unit maintained in accordance with the ma	anufacturer's specifications?	\(\times \text{ Yes}	□No
2. Is there a written plan onsite which addresses the operating procedures during startup, shutdown and malfunction?			□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
PART VII: EU INSPECTION COMPLIANCE STATUS	(check ☑ only one box)		
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIA	ANCE SIGNIFICANT Non-COM	IPLIANCE	
SPECIAL CONDITIONS AND PROCEDURES	ction (continued)	(check 🗸	only one h question)
Administrative Changes: 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 3. Since the last registration form submittal has there been a. Installation of any new process equipment? b. Alterations to existing process equipment without c. Replacement of existing equipment with equipment d. A change in ownership?	elocation of the facility or any emissions for administrative change at the facility? 0 days of the change?	units or Yes	NoNoNoNoNoNoNoNoNoNoNo
MARUFUL MALIK Inspector's Name (Please Print)	7/23/2014 Date of Inspection 7/2015		
Inspector's Signature	Approximate Date of Next	Inspection	

COMMENTS: On July 23, 2014 I visited this facility to conduct the compliance inspection. On site I met Verl Shaw, the manager of the facility. This is a Human Cremation facility with five (5) Crematories are as follows: On the far left Crematory # four (4) ---- B & L Cremation Systems, model PH II -1 Serial # 704- 487-03, Rate: 150 lb/hr TYPE IV, Fuel: Natural gas, Motor: 5 HP, Power --- 230 VAC 60 Hz 1025 Amp. Crematory # Three (3) was to the right side of Crematory # 4 ---- B & L Cremation Systems, model N20AA Serial # 581-364-01, Rate: 150 lb/hr TYPE IV, Fuel: Natural gas, Motor: 5 HP, Power --- 230 VAC 60 Hz 1025 Amp. To the right side Crematory # 3 was Crematory # 2 ----- B & L Cremation Systems, model N20AA Serial # 496-279-00, Rate: 150 lb/hr Type IV, Fuel: Natural gas, Motor 5 HP, Power --- 230 VAC 60 Hz 1025 Amp. To the right side of Crematory # 2 was Crematory # 6 ---- B & L Cremation Systems, model Phoenix II 1 Serial # 853-636-08, Rate: 150 lb/hr TYPE IV, Fuel: Natural gas, Motor: 5 Hp, Power --- 230 VAC 60 Hz 1025 Amp. To the far right next to Crematory # 6 was Crematory #

5 ---- B & L Cremation Systems, model PH II -1 Serial #705-488-03, Rate: 150 lb/hr TYPE IV, Fuel: Narural gas, Motor: 5 HP, Power --- 230 VAC 60 Hz 1025 Amp. According to Patricia Nowak, Incinerator # One (1) was replaced by Incinerator # six (6) in the year 2007. The temperature of the secondary chamber was as follows: Incinerator # 4 was at 1677 degrees F, Incinerator # 3 was at 1670 degrees F and Incinerator # 6 was at 1650 degrees F. Incinerator # 2 and # 5 were not in operation during the time of my inspection. Taryaan Verde has been working as Crematory Operator since 2013 and a copy of his certification was provided. No objectionable odor was detected inside or outside the facility. No emissions were observed during my visit.

REVIEWED

By Ray Gordon at 12:14 pm, Aug 01, 2014