

#### **HUMAN** CREMATORY



#### COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE:	ANNUAL (INS1, INS2)	COMPLAINT/I	DISCOVERY	Y (CI)		
	RE-INSPECTION (FUI)	ARMS COMPL	AINT NO:			
AIRS ID#: 0250944 DA	ATE: <u>2/24/2011</u>	ARRIVE: <u>12;551</u>	<u>PM</u>	<b>DEPART:</b> <u>1:2</u>	<u>5PM</u>	
FACILITY NAME: AL	LLEN & SHAW-OPA LOCKA F	ACILITY				
FACILITY LOCATION	N: 13931 NW 20TH CT					
	OPA-LOCKA 33054-4	4117				
	ED REPRESENTATIVE: VER	RL SHAW		(305)681-1426		
Email: CONTACT NAME: V	VERL SHAW			(305)681-1426		
Email: ENTITLEMENT PERIC	OD: 5/31/2009 / 5/31/2014 (effective date) (end date)		Mobile:			
	(					
	F	acility Section				
	N COMPLIANCE STATUS (ch	_				
☑ IN COMPLIAN	ICE MINOR Non-COMP	PLIANCE SIC	GNIFICANT	Non-COMPLIAN	CE	
PART II: ONSITE INT	RODUCTORY MEETING			*		only one
1. Name(s) of facility rep	presentative(s): Paul Nowak			box	for each	question)
Brief Notes:						
2. Is the Authorized Rep If no, who is?:	oresentative still VERL SHAW? -			····· 🗵	Yes	□No
If different, did the fact.  3. Is the facility contact of the fact of the fac	cility provide an administrative uj still VERL SHAW?	pdate within 30 days	?		Yes Yes	□No □No
	acting VE test(s) during today's in iance authority notified at least 15				Yes Yes	⊠No □No

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

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	,	only one
		box for each	question)
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	⊠ 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		
	at 1800 degrees Fahrenheit?	⊠ Yes	□No
2.	Crematory unit installed after February 1, 2007?	Yes	⊠No
	Date of last inspection: 8/17/2010		
4.	Past Visible Emissions (VE) tests:		
	a. Was a VE test performed within each of the past 4 calendar years?	Yes	<u></u> No
	b. Has a VE test been performed yet within the current calendar year?	Yes	∐No
	c. If first year of operation, was a VE test performed within 30 days of commencing		
	operation? N/A	☐ Yes	∐No
	d. Date of last VE test: 8/17/2010	N 37	
	e. Was the VE test report filed with the compliance authority no later than 45 days after the test?	Yes	∐No
	f. Did the facility demonstrate compliance during the last VE test?	Yes	∐No
	If no, what was the problem (if known)?		
PA	RT II: VISIBLE EMISSIONS TESTING	(check <b>☑</b>	only one
		box for each	•
		box for each	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?		□No
	b. Was the visible emissions test conducted according to EPA Method 9?	Yes	□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
	(5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minutes	in any one-hour)	
2	Was a visible emissions test conducted by the inspector during this site visit?	Yes	⊠No
۷.	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?		□No
	b. Was the visible emissions test conducted according to EPA Method 9?		□No
	c. The visible emission test resulted in an opacity of which the highest six minute average.	☐ 1es	No
	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		
٠.	25 shore any reason to ask for a special test to determine complanate with the rare and the soundary	Yes	⊠No
	If yes, what reason?		
			· ·
			7
PA	RT III: MONITORING/RECORDKEEPING REQUIREMENTS	(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:	108	∠7140
	Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)	
	25	(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	<del></del>	_
	time at $\square 1,800^1 \square 1,600^2$ degrees was determined?	Yes	□No
	(Application or initial notification: <sup>1</sup> received on or after 8/30/89; <sup>2</sup> 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?		
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 ( )	Yes	No
4) Adjustments5) Preventive maintenance performed on systems/devices	<ul><li>✓ Yes</li><li>✓ Yes</li></ul>	∐No □No
6) Corrective maintenance performed on systems/devices	Yes	□No
d. Are the temperature charts properly documented with operator name, operator indication of	N-7	
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 equipped and operated with a pollutant monitoring system to automatica		△Νο
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	□ Vas	□ 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)
	box for each	question)
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:</li> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F</li> </ol>		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 <b>1400°F</b> throughout the combustion process in the primary chamber?	☐ Yes	question) □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	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?	☐ Yes	
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:</li> </ol>	Yes	□No
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> </ul> </li> </ol>	☐ Yes on ☐ Yes ☐ Yes	□No
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic</li> </ul> </li> </ol>	☐ Yes  On ☐ Yes ☐ Yes ☐ Yes	NoNoNo
1. 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?  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 on ☐ Yes ☐ Yes	No No
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic</li> </ul> </li> </ol>	☐ Yes  On ☐ Yes ☐ Yes ☐ Yes	NoNoNo
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?</li> </ul></li></ol>	☐ Yes on ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	NoNoNoNo
1. 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?  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?  b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?  PART V: <u>ALLOWED MATERIALS</u>	☐ Yes on ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	NoNoNo only one
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>PART V: <u>ALLOWED MATERIALS</u></li> </ol>	☐ Yes on ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
<ol> <li>If the application to construct was BEFORE a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————</li></ol>	Yes On Yes Yes On Yes  Yes On Yes  (check  box for each	NoNoNo only one question)
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>PART V: <u>ALLOWED MATERIALS</u> <ul> <li>Other than human or fetal remains with appropriate containers or clothing, are any materials, including biomedical wastes, incinerated in the unit?</li> <li>microprocess than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> </ol>	☐ Yes on ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one
<ol> <li>If the application to construct was BEFORE a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————</li></ol>	Yes On Yes Yes On Yes  Yes On Yes  (check  box for each	NoNoNo only one question)

PART VI: EQUIPMENT MAINTENANCE	(check <b>✓</b> box for each	only one question)
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?	- Xes	□No
3. Does the crematory allow for a visible check on the flame characteristics?	- X Yes	□No
a. Was the flame characteristic visually checked at least once during each operating shift?b. Was the flame adjusted when necessary?		□No □No
PART VII: <u>EU INSPECTION COMPLIANCE STATUS</u> (check ✓ only one box)		
IN COMPLIANCE	JANCE	

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

PA	RT I: FILE REVIEW PRIOR TO INSPECTION	(check 🗹	only one
		box for each	question)
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	⊠ 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		
	at 1800 degrees Fahrenheit?	⊠ Yes	□No
2.	Crematory unit installed after February 1, 2007?	Yes	⊠No
	Date of last inspection: 8/7/2010	<del></del>	
4.	Past Visible Emissions (VE) tests:		
	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?	Yes	□No
	c. If first year of operation, was a VE test performed within 30 days of commencing		
	operation? N/A	Yes	□No
	d. Date of last VE test: 8/7/2010	K-7	
	e. Was the VE test report filed with the compliance authority no later than 45 days after the test?	⊠ Yes	∐No
	f. Did the facility demonstrate compliance during the last VE test?	Yes	∐No
	If no, what was the problem (if known)?		
			-
PA	ART II: <u>VISIBLE EMISSIONS TESTING</u>	(check <b>☑</b>	only one
	· <del>· · · · · · · · · · · · · · · · · · </del>	box for each	
		box for each	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?		□No
	b. Was the visible emissions test conducted according to EPA Method 9?	- Yes	□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
	(5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minutes	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?		□No
	b. Was the visible emissions test conducted according to EPA Method 9?		□No
	c. The visible emission test resulted in an opacity of which the highest six minute average.	☐ 1es	NO
	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		
	r in the contract of the contr	Yes	⊠No
	If yes, what reason?		
			·
DA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS		. 1
PA	RI III; MONITORING/RECORDREEPING REQUIREMENTS	(check 🗹	only one
		box for each	question)
1.	Were there any objectionable odors detected?	Yes	⊠No
	An upwind/downwind survey of the facility was conducted. The observed parameters were:		<u> </u>
	Downwind odor level detected- Wind direction - Upwind odor level detected-	(1-10)	
	•		
	Continuous Monitoring Systems –		
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
b	Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence	<u>~</u> -	
	time at $\square$ 1,800 <sup>1</sup> $\square$ 1,600 <sup>2</sup> degrees was determined?	Yes	∐No
	(Application or initial notification: <sup>1</sup> received on or after 8/30/89; <sup>2</sup> 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 ☐ Yes ☐ Yes ☐ Yes ☐ Yes	NoNoNoNo
6) Corrective maintenance performed on systems/devices	☐ Yes☐ Yes	∐No □No
<ul> <li>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</li> <li>e. Was the crematory unit installed after 2/1/07? If no, skip e.(1) – (3)</li></ul>		□No □No
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?  (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 🗹 box for each o	only one question)
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> </ol>	☐ Yes  □ 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?  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	□No
PART V: ALLOWED MATERIALS	`	only one
	box for each	question)
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

PART VI: EQUIPMENT MAINTENANCE	(check <b>☑</b> 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?	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: EU INSPECTION COMPLIANCE STATUS (check ☑ only one box)  ☑ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPL	LIANCE	

## 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
	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? If no, what was the problem (if known)?	∑ Yes ∑ Yes	□No □No
			-
PA	ART 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?	☐ 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	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- No 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
υ	Is the temperature probe properly placed, at least at the distance where the 1.0 second gas residence time at	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	<ul> <li>✓ Yes</li> <li>✓ Yes</li> <li>✓ Yes</li> <li>✓ Yes</li> <li>✓ Yes</li> <li>✓ Yes</li> </ul> ✓ Yes	No  No  No  No  No  No
<ul> <li>e. Was the crematory unit installed after 2/1/07? If no, skip e.(1) – (3)</li></ul>	Yes    Yes   Yes   Yes	<ul><li>No</li><li>No</li><li>No</li></ul>
accordance with the manufacturer's recommended maintenance schedule?	Yes	∐No
PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check <b>☑</b> 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?  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?	☐ Yes on ☐ Yes ☐ Yes	□No
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?</li> </ul></li></ol>	☐ Yes on ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	□No □No □No □No
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?</li> </ul> </li> </ol>	☐ Yes on ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	NoNoNo only one
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic process begins in the primary chamber?</li> </ul> </li> </ol>	Yes On Yes Yes Yes On Yes (check  (check )	NoNoNo only one

PART VI: EQUIPMENT MAINTENANCE	(check <b>☑</b> box for each	2
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?  3. Does the crematory allow for a visible check on the flame characteristics?	<u>—</u>	□No
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
PART VII: EU INSPECTION COMPLIANCE STATUS (check ✓ only one box)		
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPI	LIANCE	

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

PA	ART I: FILE REVIEW PRIOR TO INSPECTION	(check ☑	only one
		box for each	
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or	_	
	after August 30, 1989?	⊠ 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		
	at 1800 degrees Fahrenheit?	⊠ Yes	□No
2.	Crematory unit installed after February 1, 2007?	Yes	□No
	Date of last inspection: 8/17/2010	_	
4.	Past Visible Emissions (VE) tests:		
	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?	Yes	∐No
	c. If first year of operation, was a VE test performed within 30 days of commencing operation? N/A	□ Vos	□ No
	operation?	∐ Yes	□No
	e. Was the VE test report filed with the compliance authority no later than 45 days after the test?	⊠ Yes	□No
	f. Did the facility demonstrate compliance during the last VE test?		□No
	If no, what was the problem (if known)?		
PΛ	ART II: VISIBLE EMISSIONS TESTING		_
1 /	IN II. VISIBLE EMISSIONS TESTING	(check 🗹	only one
		box for each	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?		□No
	b. Was the visible emissions test conducted according to EPA Method 9?	- Yes	∐No
	c. The visible emission test resulted in an opacity of % for the highest six minute average.		
	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
	(5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minutes		
	(v. s.	,,	
2.	Was a visible emissions test conducted by the inspector during this site visit?		⊠No
	a. Was the test conducted with the unit operating at a capacity of one (1) adult-sized cadaver?	Yes	□No
	b. Was the visible emissions test conducted according to EPA Method 9?	Yes	∐No
	<ul><li>c. The visible emission test resulted in an opacity of % for the highest six minute average.</li><li>d. Did the visible emission test demonstrate compliance with the limit?</li></ul>	- Yes	□No
3	Is there any reason to ask for a special test to determine compliance with the PM and CO standa		NO
٥.	is there any reason to ask for a special test to determine compliance with the first and 00 standards	Yes	⊠No
	If yes, what reason?	_	
PA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check <b>☑</b>	only one
		box for each	•
1.	Were there any objectionable odors detected?	Yes	⊠No
	An upwind/downwind survey of the facility was conducted. The observed parameters were:	(1.10)	
	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 $\square$ 1,800 <sup>1</sup> $\square$ 1,600 <sup>2</sup> degrees was determined?	⊠ Yes	□No
	(Application or initial notification: <sup>1</sup> received on or after 8/30/89; <sup>2</sup> 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
all continuous monitoring systems, monitoring devices, and performance testing measurements;     monitoring system all continuous performance evaluations	⊠ Yes □ Yes	□No □No
4) Adjustments 5) 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	Yes Ves	□No
e. Was the crematory unit installed after <b>2/1/07</b> ? If no, skip e.(1) – (3)(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 lly ⊠ Yes	⊠No □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
		r
PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES	(check <b>✓</b> box for eac	•
1. If the application to construct was <b>BEFORE</b> 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
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul>		□No
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul>	on Yes	No
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul>	on Yes  Yes  Yes	No
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul>	on Yes	No
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————</li></ul>	on Yes  Yes  Yes  Yes  Yes	No
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul>	on Yes  Yes  Yes  Yes  Yes	No
<ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber? ————————————————————————————————————</li></ul>	on Yes  Yes on Yes (check box for eac	NoNoNo only one

PART VI: EQUIPMENT MAINTENANCE	(check <b>☑</b> box for each	•					
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?	- 🛚 Yes	□No					
3. Does the crematory allow for a visible check on the flame characteristics?	- X Yes	□No					
a. Was the flame characteristic visually checked at least once during each operating shift?b. Was the flame adjusted when necessary?		□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 5 – Human Crematory-primary&2ndary chambers,NG fired,150#/hr

PART I: FILE REVIEW PRIOR TO INSPECTION		(check 🗹 only one	
		box for each	question)
1.	a. Complete AC application or, if no AC permit, initial GP registration received on or after August 30, 1989?	⊠ 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		
	at 1800 degrees Fahrenheit?	⊠ Yes	□No
2.	Crematory unit installed after February 1, 2007?	Yes	⊠No
	Date of last inspection: 8/17/2010	<del>_</del>	
	Past Visible Emissions (VE) tests:		
	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?	Yes	□No
	c. If first year of operation, was a VE test performed within 30 days of commencing	_	
	operation?	Yes	□No
	d. Date of last VE test: 8/17/2010		
	e. Was the VE test report filed with the compliance authority no later than 45 days after the test?	⊠ Yes	□No
	f. Did the facility demonstrate compliance during the last VE test?		□No
	If no, what was the problem (if known)?		
_			
PA	ART II: <u>VISIBLE EMISSIONS TESTING</u>	(check 🗹	only one
		box for each	•
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?		∐No
	b. Was the visible emissions test conducted according to EPA Method 9?	- Yes	∐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
	(5% opacity, six-minute average, except that visible emissions not exceeding 15% opacity shall be allowed for up to six minutes in any one-hour)		
2	Was a visible emissions test conducted by the inspector during this site visit?	□ Vac	⊠No
۷.	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?		∐No
	b. Was the visible emissions test conducted according to EPA Method 9?	Yes	∐No
	c. The visible emission test resulted in an opacity of % for the highest six minute average.	□ v	□ Na
2	d. Did the visible emission test demonstrate compliance with the limit?		□No
3.	is there any reason to ask for a special test to determine compnance with the PM and CO standa	Yes	⊠No
	If yes, what reason?		△110
	ii yes, what reason:		
			_
PA	ART III: MONITORING/RECORDKEEPING REQUIREMENTS	(check 🗹	only one
		box for each	-
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- No Wind direction - Upwind odor level detected-	(1-10)	
_			
	Continuous Monitoring Systems –		
a	Is a continuous temperature monitoring system installed on each unit to record temperatures in the	<b>5</b>	
	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	<b>~</b>	
	time at $\square$ 1,800 <sup>1</sup> $\square$ 1,600 <sup>2</sup> degrees was determined?	⊠ Yes	∐No
	(Application or initial notification: <sup>1</sup> received on or after 8/30/89; <sup>2</sup> 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 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 ( ) 4) Adjustments 5) Preventive maintenance performed on systems/devices 6) Corrective maintenance performed on systems/devices	<ul><li>Yes</li><li>Yes</li><li>Yes</li><li>Yes</li><li>Yes</li><li>Yes</li><li>Yes</li><li>Yes</li></ul>	No  No  No  No  No					
<ul> <li>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</li> <li>e. Was the crematory unit installed after 2/1/07? If no, skip e.(1) – (3)</li></ul>	⊠ Yes □ Yes lly ⊠ Yes	□No □No					
<ul> <li>(2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity?</li></ul>	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)					
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:</li> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ol>	☐ Yes on ☐ Yes ☐ Yes	□No					
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1400°F before the crematic process begins in the primary chamber?</li> </ul> </li> <li>If the application to construct <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:         <ul> <li>a. the actual operating temperature of the secondary chamber combustion zone no less than 1600°F throughout the combustion process in the primary chamber?</li> <li>b. secondary chamber combustion zone temperature equal to or greater than 1600°F before the crematic</li> </ul> </li> </ol>	Yes On Yes  Yes  Yes	□No □No					
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul></li></ol>	Yes On Yes  Yes  Yes  Yes On Yes	NoNoNo only one					
<ol> <li>If the application to construct was <u>BEFORE</u> August 30, 1989 is the:         <ul> <li>a. actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul></li></ol>	☐ Yes On Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ (check ☑	NoNoNo only one					

PART VI: EQUIPMENT MAINTENANCE		(check ☑ only one box for each question)			
1. Is the crematory unit maintained in accordance with the manufactur	er's specifications?	⊠ Yes	□No		
Is there a written plan onsite which addresses the operating procedu shutdown and malfunction?		⊠ Yes	□No		
3. Does the crematory allow for a visible check on the flame character If no, skip a. – b.	1Stics?	⊠ Yes	∐No		
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 \( \bar{\bar} \)	only one box)				
☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE	SIGNIFICANT Non-COMPL	IANCE			
Facility Section (continued)					
SPECIAL CONDITIONS AND PROCEDURES		(check 🗹 box for each	only one question)		
Administrative Changes:					
<ol> <li>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 adminstrations.</li> <li>If yes, did the facility provide written notification within 30 days of</li> </ol>	of the facility or any emissions unit sistrative change at the facility?	s or Yes	⊠No □No		
New or Modified Process Equipment or Change in Ownership:					
3. Since the last registration form submittal has there been		Yes Yes	□No □No		
a. Installation of any new process equipment?b. Alterations to existing process equipment without replacement?		☐ Yes	□No		
c. Replacement of existing equipment with equipment that is substantially different?d. A change in ownership?			□No □No		
If the any answer to 3a. – d. is Yes, was a new registration fo submitted 30 days prior to the change?		☐ Yes	□No		
MARUFUL MALIK	2/24/2011				
Inspector's Name (Please Print)	Date of Inspection				
	2/24/2012				
Inspector's Signature	Approximate Date of Next Insp	ection			

**COMMENTS:** On February 24, 2011 I visited this facility to conduct the compliance inspection. On site I met Paul Nowak, the manager of the facility. The temperature of secondary chamber was as follows during the inspection: Incinerator # 2 at 1650 degrees F, # 3 at 1650 degrees F, # 4 at 1652 degrees F, # 5 at 1652 degrees F, and # 6 aws at 1649 degrees F. No emissions were observed during the time of inspection. No objectionable odors were detected in or around the facility.