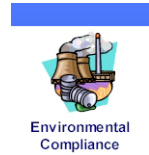




# HUMAN CREMATORY



## COMPLIANCE INSPECTION CHECKLIST

**INSPECTION TYPE:** ANNUAL (INS1, INS2)  COMPLAINT/DISCOVERY (CI)   
 RE-INSPECTION (FUI)  ARMS COMPLAINT NO:

<b>AIRS ID#:</b> 0250944	<b>DATE:</b> <u>2/24/2011</u>	<b>ARRIVE:</b> <u>12:55PM</u>	<b>DEPART:</b> <u>1:25PM</u>
<b>FACILITY NAME:</b> ALLEN & SHAW-OPA LOCKA FACILITY			
<b>FACILITY LOCATION:</b> 13931 NW 20TH CT OPA-LOCKA 33054-4117			
<b>OWNER/AUTHORIZED REPRESENTATIVE:</b> VERL SHAW		<b>PHONE:</b> (305)681-1426	
<b>Email:</b>		<b>Mobile:</b>	
<b>CONTACT NAME:</b> VERL SHAW		<b>PHONE:</b> (305)681-1426	
<b>Email:</b>		<b>Mobile:</b>	
<b>ENTITLEMENT PERIOD:</b> 5/31/2009 / 5/31/2014 (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 box for each question)

1. Name(s) of facility representative(s): Paul Nowak  
 Brief Notes: \_\_\_\_\_

2. Is the Authorized Representative still VERL SHAW? -----  Yes    ..No  
 If no, who is?: \_\_\_\_\_  
 If different, did the facility provide an administrative update within 30 days? -----  Yes    ..No

3. Is the facility contact still VERL SHAW? -----  Yes    ..No  
 If no, who is?: \_\_\_\_\_

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

**Emissions Unit Section**  
**1 – 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
3. 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  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? -----  Yes ..No

If no, what was the problem (if known)?

**PART 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?** -----  Yes ..No
    - a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? -----  Yes ..No
    - b. Was the visible emissions test conducted according to EPA Method 9? -----  Yes ..No
    - 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 in any one-hour)
  2. **Was a visible emissions test conducted by the inspector during this site visit?** -----  Yes ..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
    - 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
  3. **Is there any reason to ask for a special test to determine compliance with the PM and CO standards?** -----  Yes ..No
- If yes, what reason?

**PART III: MONITORING/RECORDKEEPING 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:  
 Downwind odor level detected- \_\_\_\_\_ Wind direction - \_\_\_\_\_ Upwind odor level detected- \_\_\_\_\_ (1-10)
2. **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 time at  1,800<sup>1</sup>  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
  - 2) all continuous monitoring systems, monitoring devices, and performance testing measurements;  
monitoring system all continuous performance evaluations -----  Yes ..No
  - 3) All CEMS or monitoring device calibration checks (last performed on (     ) ) -----  Yes ..No
  - 4) Adjustments -----  Yes ..No
  - 5) Preventive maintenance performed on systems/devices -----  Yes ..No
  - 6) Corrective maintenance performed on systems/devices -----  Yes ..No
- d. Are the temperature charts properly documented with operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markings -----  Yes ..No
- e. Was the crematory unit installed after **2/1/07**? If no, skip e.(1) – (3) -----  Yes ..No
- (1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatically control combustion based on continuous in-stack opacity measurement? -----  Yes ..No
  - (2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity ? -----  Yes ..No
  - (3) Has the opacity measurement system been cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule? -----  Yes ..No

**PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES**

(check  only one box for each question)

1. If the application to construct was **BEFORE** August 30, 1989 is the:
- a. actual operating temperature of the secondary chamber combustion zone no less than **1400°F** throughout the combustion process in the primary chamber? -----  Yes ..No
  - b. secondary chamber combustion zone temperature equal to or greater than **1400°F** before the cremation process begins in the primary chamber? -----  Yes ..No
2. If the application to construct **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 cremation process begins in the primary chamber? -----  Yes ..No

**PART V: ALLOWED MATERIALS**

(check  only one box for each 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 ..No
- If yes, is the certifying documentation from the manufacturer kept on file for at least 2 years from use?  Yes ..No

**PART VI: EQUIPMENT MAINTENANCE**

(check  only one box for each 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? -----  Yes ..No  
If no, skip a. – b.
- a. Was the flame characteristic visually checked at least once during each operating shift? -----  Yes ..No
- b. Was the flame adjusted when necessary? -----  Yes ..No

**PART VII: EU INSPECTION COMPLIANCE STATUS** (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**

**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
3. Date of last inspection: 8/7/2010
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  Yes ..No
  - d. Date of last VE test: 8/7/2010
  - 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? -----  Yes ..No

If no, what was the problem (if known)?

**PART 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?** -----  Yes ..No
    - a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? -----  Yes ..No
    - b. Was the visible emissions test conducted according to EPA Method 9? -----  Yes ..No
    - 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 in any one-hour)
  2. **Was a visible emissions test conducted by the inspector during this site visit?** -----  Yes ..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
    - 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
  3. **Is there any reason to ask for a special test to determine compliance with the PM and CO standards?** -----  Yes ..No
- If yes, what reason?

**PART III: MONITORING/RECORDKEEPING 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:  
 Downwind odor level detected- \_\_\_\_\_ Wind direction - \_\_\_\_\_ Upwind odor level detected- \_\_\_\_\_ (1-10)
2. **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 time at  1,800<sup>1</sup>  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
  - 2) all continuous monitoring systems, monitoring devices, and performance testing measurements;  
monitoring system all continuous performance evaluations -----  Yes ..No
  - 3) All CEMS or monitoring device calibration checks (last performed on (     ) ) -----  Yes ..No
  - 4) Adjustments -----  Yes ..No
  - 5) Preventive maintenance performed on systems/devices -----  Yes ..No
  - 6) Corrective maintenance performed on systems/devices -----  Yes ..No
- d. Are the temperature charts properly documented with operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markings -----  Yes ..No
- e. Was the crematory unit installed after **2/1/07**? If no, skip e.(1) – (3) -----  Yes ..No
- (1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatically control combustion based on continuous in-stack opacity measurement? -----  Yes ..No
  - (2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity ? -----  Yes ..No
  - (3) Has the opacity measurement system been cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule? -----  Yes ..No

**PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES**

(check  only one box for each question)

1. If the application to construct was **BEFORE** August 30, 1989 is the:
- a. actual operating temperature of the secondary chamber combustion zone no less than **1400°F** throughout the combustion process in the primary chamber? -----  Yes ..No
  - b. secondary chamber combustion zone temperature equal to or greater than **1400°F** before the cremation process begins in the primary chamber? -----  Yes ..No
2. If the application to construct **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 cremation process begins in the primary chamber? -----  Yes ..No

**PART V: ALLOWED MATERIALS**

(check  only one box for each 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 ..No
- If yes, is the certifying documentation from the manufacturer kept on file for at least 2 years from use?  Yes ..No



**PART VI: EQUIPMENT MAINTENANCE**

(check  only one box for each 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? -----  Yes ..No  
If no, skip a. – b.
- a. Was the flame characteristic visually checked at least once during each operating shift? -----  Yes ..No
- b. Was the flame adjusted when necessary? -----  Yes ..No

**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**

**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
3. 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  Yes ..No
  - d. Date of last VE test:
  - e. Was the VE test report filed with the compliance authority no later than 45 days after the test? -----  Yes ..No
  - f. Did the facility demonstrate compliance during the last VE test? -----  Yes ..No

If no, what was the problem (if known)?

**PART 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?** -----  Yes ..No
    - a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? -----  Yes ..No
    - b. Was the visible emissions test conducted according to EPA Method 9? -----  Yes ..No
    - 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 in any one-hour)
  2. **Was a visible emissions test conducted by the inspector during this site visit?** -----  Yes ..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
    - 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
  3. **Is there any reason to ask for a special test to determine compliance with the PM and CO standards?** -----  Yes ..No
- If yes, what reason?

**PART III: MONITORING/RECORDKEEPING 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:  
 Downwind odor level detected- No      Wind direction -      Upwind odor level detected- (1-10)
2. **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 time at  1,800<sup>1</sup>  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
  - 2) all continuous monitoring systems, monitoring devices, and performance testing measurements;  
monitoring system all continuous performance evaluations -----  Yes ..No
  - 3) All CEMS or monitoring device calibration checks (last performed on ( ) ) -----  Yes ..No
  - 4) Adjustments -----  Yes ..No
  - 5) Preventive maintenance performed on systems/devices -----  Yes ..No
  - 6) Corrective maintenance performed on systems/devices -----  Yes ..No
- d. Are the temperature charts properly documented with operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markings -----  Yes ..No
- e. Was the crematory unit installed after **2/1/07**? If no, skip e.(1) – (3) -----  Yes ..No
- (1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatically control combustion based on continuous in-stack opacity measurement? -----  Yes ..No
  - (2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity ? -----  Yes ..No
  - (3) Has the opacity measurement system been cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule? -----  Yes ..No

**PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES**

(check  only one box for each question)

1. If the application to construct was **BEFORE** August 30, 1989 is the:
- a. actual operating temperature of the secondary chamber combustion zone no less than **1400°F** throughout the combustion process in the primary chamber? -----  Yes ..No
  - b. secondary chamber combustion zone temperature equal to or greater than **1400°F** before the cremation process begins in the primary chamber? -----  Yes ..No
2. If the application to construct **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 cremation process begins in the primary chamber? -----  Yes ..No

**PART V: ALLOWED MATERIALS**

(check  only one box for each 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 ..No
- If yes, is the certifying documentation from the manufacturer kept on file for at least 2 years from use?  Yes ..No

**PART VI: EQUIPMENT MAINTENANCE**

(check  only one box for each 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? -----  Yes ..No  
If no, skip a. – b.
- a. Was the flame characteristic visually checked at least once during each operating shift? -----  Yes ..No
- b. Was the flame adjusted when necessary? -----  Yes ..No

**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**

**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
3. 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  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? -----  Yes ..No  
If no, what was the problem (if known)?

**PART 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?** -----  Yes ..No
  - a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? -----  Yes ..No
  - b. Was the visible emissions test conducted according to EPA Method 9? -----  Yes ..No
  - 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 in any one-hour)
2. **Was a visible emissions test conducted by the inspector during this site visit?** -----  Yes ..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
  - 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
3. **Is there any reason to ask for a special test to determine compliance with the PM and CO standards?** -----  Yes ..No  
If yes, what reason?

**PART III: MONITORING/RECORDKEEPING 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:  
Downwind odor level detected- \_\_\_\_\_ Wind direction - \_\_\_\_\_ Upwind odor level detected- \_\_\_\_\_ (1-10)
2. **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 time at  1,800<sup>1</sup>  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
  - 2) all continuous monitoring systems, monitoring devices, and performance testing measurements;  
monitoring system all continuous performance evaluations -----  Yes ..No
  - 3) All CEMS or monitoring device calibration checks (last performed on (     ) ) -----  Yes ..No
  - 4) Adjustments -----  Yes ..No
  - 5) Preventive maintenance performed on systems/devices -----  Yes ..No
  - 6) Corrective maintenance performed on systems/devices -----  Yes ..No
- d. Are the temperature charts properly documented with operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markings -----  Yes ..No
- e. Was the crematory unit installed after **2/1/07**? If no, skip e.(1) – (3) -----  Yes ..No
- (1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatically control combustion based on continuous in-stack opacity measurement? -----  Yes ..No
  - (2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity ? -----  Yes ..No
  - (3) Has the opacity measurement system been cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule? -----  Yes ..No

**PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES**

(check  only one box for each question)

1. If the application to construct was **BEFORE** August 30, 1989 is the:
- a. actual operating temperature of the secondary chamber combustion zone no less than **1400°F** throughout the combustion process in the primary chamber? -----  Yes ..No
  - b. secondary chamber combustion zone temperature equal to or greater than **1400°F** before the cremation process begins in the primary chamber? -----  Yes ..No
2. If the application to construct **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 cremation process begins in the primary chamber? -----  Yes ..No

**PART V: ALLOWED MATERIALS**

(check  only one box for each 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 ..No
- If yes, is the certifying documentation from the manufacturer kept on file for at least 2 years from use?  Yes ..No



**PART VI: EQUIPMENT MAINTENANCE**

(check  only one box for each 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? -----  Yes ..No  
If no, skip a. – b.
- a. Was the flame characteristic visually checked at least once during each operating shift? -----  Yes ..No
- b. Was the flame adjusted when necessary? -----  Yes ..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**

**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
3. 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  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? -----  Yes ..No  
If no, what was the problem (if known)?

**PART 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?** -----  Yes ..No
  - a. Was the test conducted with the unit operating at a capacity of one adult-sized cadaver? -----  Yes ..No
  - b. Was the visible emissions test conducted according to EPA Method 9? -----  Yes ..No
  - 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 in any one-hour)
2. **Was a visible emissions test conducted by the inspector during this site visit?** -----  Yes ..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
  - 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
3. **Is there any reason to ask for a special test to determine compliance with the PM and CO standards?** -----  Yes ..No  
If yes, what reason?

**PART III: MONITORING/RECORDKEEPING 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:  
Downwind odor level detected- No      Wind direction -      Upwind odor level detected- (1-10)
2. **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 time at  1,800<sup>1</sup>  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
  - 2) all continuous monitoring systems, monitoring devices, and performance testing measurements;  
monitoring system all continuous performance evaluations -----  Yes ..No
  - 3) All CEMS or monitoring device calibration checks (last performed on ( ) ) -----  Yes ..No
  - 4) Adjustments -----  Yes ..No
  - 5) Preventive maintenance performed on systems/devices -----  Yes ..No
  - 6) Corrective maintenance performed on systems/devices -----  Yes ..No
- d. Are the temperature charts properly documented with operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markings -----  Yes ..No
- e. Was the crematory unit installed after **2/1/07**? If no, skip e.(1) – (3) -----  Yes ..No
- (1) Is the crematory unit equipped and operated with a pollutant monitoring system to automatically control combustion based on continuous in-stack opacity measurement? -----  Yes ..No
  - (2) Is the system calibrated to restrict combustion in the primary chamber whenever any opacity exceeds 15% opacity ? -----  Yes ..No
  - (3) Has the opacity measurement system been cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule? -----  Yes ..No

**PART IV: SECONDARY COMBUSTION ZONE TEMPERATURES**

(check  only one box for each question)

1. If the application to construct was **BEFORE** August 30, 1989 is the:
- a. actual operating temperature of the secondary chamber combustion zone no less than **1400°F** throughout the combustion process in the primary chamber? -----  Yes ..No
  - b. secondary chamber combustion zone temperature equal to or greater than **1400°F** before the cremation process begins in the primary chamber? -----  Yes ..No
2. If the application to construct **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 cremation process begins in the primary chamber? -----  Yes ..No

**PART V: ALLOWED MATERIALS**

(check  only one box for each 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 ..No  
If yes, is the certifying documentation from the manufacturer kept on file for at least 2 years from use?  Yes ..No

**PART VI: EQUIPMENT MAINTENANCE**

(check  only one box for each 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? -----  Yes ..No  
 If no, skip a. – b.
  - a. Was the flame characteristic visually checked at least once during each operating shift? -----  Yes ..No
  - b. Was the flame adjusted when necessary? -----  Yes ..No

**PART VII: EU INSPECTION COMPLIANCE STATUS** (check  only one box)

- IN COMPLIANCE
- MINOR Non-COMPLIANCE
- SIGNIFICANT Non-COMPLIANCE

**Facility Section (continued)**

**SPECIAL CONDITIONS AND PROCEDURES**

(check  only one box for each question)

Administrative Changes:

- 1. Were there any changes in the name, address, or phone number of the facility or authorized representative not associated with a change in ownership or with a physical relocation of the facility or any emissions units or operations comprising the facility; or any other similar minor administrative change at the facility? ----  Yes ..No
- 2. If yes, did the facility provide written notification within 30 days of the change? -----  Yes ..No

New or Modified Process Equipment or Change in Ownership:

- 3. Since the last registration form submittal has there been -----  Yes ..No
  - a. Installation of any new process equipment? -----  Yes ..No
  - b. Alterations to existing process equipment without replacement? -----  Yes ..No
  - c. Replacement of existing equipment with equipment that is substantially different? -----  Yes ..No
  - d. A change in ownership? -----  Yes ..No
- If the any answer to 3a. – d. is Yes , was a new registration form and the appropriate fee submitted 30 days prior to the change? -----  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 Inspection

**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.