



# HUMAN CREMATORY



## COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 0850015 DATE: 4/15/08 ARRIVE: 7:55 DEPART: 9:00  
 FACILITY NAME: TRI COUNTY CREMATORY-AYCOCK FUNERAL HOME  
 FACILITY LOCATION: 505 S FEDERAL HWY  
 STUART 34994  
 OWNER/AUTHORIZED REPRESENTATIVE: BILL QUINN PHONE: (772)287-1717  
 CONTACT NAME: RONALD SWIFT PHONE:   
 ENTITLEMENT PERIOD: 3/27/2008 / 3/27/2013  
 (effective date) (end date)

### PART I: INSPECTION COMPLIANCE STATUS (check only one box)

IN COMPLIANCE  MINOR Non-COMPLIANCE  SIGNIFICANT Non-COMPLIANCE

### PART II: TESTING/RECORDKEEPING REQUIREMENTS – Rule 62-296.401, F.A.C.

(check  appropriate box(es))

1. Were there any objectionable odor(s) detected?-----  Yes  No
2. Was a visible emissions test conducted during this site visit according to EPA Method 9 (Ref.: Chapter 62-297, F.A.C.)?-----  Yes  No
3. In order to demonstrate individual source compliance, was an annual visible emissions test conducted 60 days prior to the AGP Notification form submission, and within 60 days prior to each anniversary date? (Rule 62-296.401(5)(i), F.A.C.)-----  Yes  No
4. In order to demonstrate individual source compliance were the remaining applicable standards testing completed within 60 days prior to the AGP Notification form submission? (Rule 62-210.300(4), F.A.C.)  Yes  No
  - a) Carbon Monoxide (CO) emissions equal to or below the requirements of 100 parts per million by volume, dry basis, corrected to 7% O<sub>2</sub> on an hourly average basis and tested according to EPA Method 10 (Ref.: Chapter 62-297, F.A.C.)?-----  Yes  No
  - b) Oxygen test performed according to EPA Method 3 (Ref.: Chapter 62-297, F.A.C.)?-----  Yes  No
  - c) Particulate matter emissions test with results equal to or below the requirements of 0.080 grains per dry standard cubic foot (ft<sup>3</sup>) of flue gas, corrected to 7% O<sub>2</sub> and tested according to EPA Method 5 (Ref.: Chapter 62-297, F.A.C.)?-----  Yes  No
5. Was all emissions testing conducted with the source operating at the manufacturers recommended capacity?-----  Yes  No
6. Was CO & PM compliance demonstrated by submission of a test report for an identical crematory unit?  Yes  No
7. Was the Department notified at least 15 days prior to the date of the last formal compliance test?-----  Yes  No
8. Was the required test report filed with the Department as soon as practical, but no longer than 45 days after the test was completed?-----  Yes  No

**PART III: OPERATING/RECORDKEEPING REQUIREMENTS – Rule 62-296.401, F.A.C.**

(check  appropriate box(es))

1. Is there **Continuous Emissions Monitoring System (CEMS)** equipment installed on each unit to record temperatures in the primary and secondary chambers where there is a 1.0 second gas residence time in the secondary chamber combustion zone in accordance with the manufacturer's instructions?-----  Yes  No
- a) Do temperature probes seem to be properly placed?-----  Yes  No
- b) Are the following records kept on file, available for inspection for at least two years following the recording of such measurements, maintenance, reports and records?
- 1) All measurements (including CEMS)-----  Yes  No
- 2) Monitoring device-----  Yes  No
- 3) Performance Testing Measurements -----  Yes  No
- 4) CEMS Performance Evaluation-----  Yes  No
- 5) All CEMS or monitoring device calibration checks-----  Yes  No
- 6) Adjustments-----  Yes  No
- 7) Preventive maintenance performed on systems/devices-----  Yes  No
- 8) Corrective maintenance performed on systems/devices-----  Yes  No
2. Was this crematory unit constructed: (check only one  box)
- a)  **BEFORE** August 30, 1989? (If this box checked, continue on to #3 and skip #4)
- b)  **ON** or **AFTER** August 30, 1989? (If this box checked, skip #3 and continue on to #4)
3. If constructed **BEFORE** August 30, 1989 is the:
- a) secondary chamber combustion zone providing at least a 1.0 second gas residence time @ 1600°F?  Yes  No
- b) actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?-----  Yes  No
- c) cremation in the primary chamber begun after the secondary chamber combustion zone temperature is equal to or greater than 1400°F?-----  Yes  No
- d) required monitoring equipment installed and operational, and providing continuous monitoring to record the temperature at the point or beyond where 1.0 second gas residence time is obtained in the secondary chamber combustion zone according to the manufacturer's instructions?-----  Yes  No
4. If constructed **ON** or **AFTER** August 30, 1989 is the:
- a) volume in the secondary combustion zone sufficient to provide at least a 1.0 second gas residence time @ 1800° F?-----  Yes  No
- b) 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
- c) secondary chamber combustion zone temperature equal to or greater than 1600°F before the cremation process begins in the primary chamber?-----  Yes  No
5. Are appropriate cremation containers containing no more than 0.5 % (percent) by weight chlorinated plastics used during the cremation of dead human bodies?-----  Yes  No
- a) If the answer to question 4 above is YES, is certifying documentation from the manufacturer that they are composed of 0.5% or less by weight chlorinated plastics kept on file at the site for the duration of their use and for at least two years after their use?-----  Yes  No
- b) Are there any other materials, including biomedical wastes (Rule 62-210.200, FAC) incinerated at this location?-----  Yes  No
6. Have all crematory operators been trained and certified by a Department-approved training program?
- a) Are copies of the training certificates for all crematory operators kept on file at the facility for the duration of the operator's employment & for an additional two years after termination of employment?-----  Yes  No

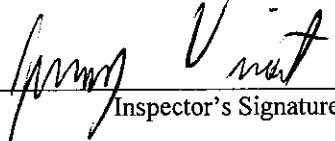
**PART IV: SPECIAL CONDITIONS AND PROCEDURES – Rule 62-296.401, F.A.C.**

**A. New or Modified Process Equipment**

- 1. Since the last inspection has there been
  - a) installation of any new process equipment?-----  Yes  No
  - b) alterations to existing process equipment without replacement?-----  Yes  No
  - c) replacement of existing equipment substantially different than that noted on the most recent notification form?-----  Yes  No
  - d) If you answered **YES** to any of the above, did the owner submit a new and complete notification form and appropriate fee (Rule 62-4.050, F.A.C.) to the appropriate DEP or local program office?-----  Yes  No
- 2. If a crematory unit has been modified to the extent that a Department air construction permit was required, have all operators been retrained to operate the modified unit?-----  Yes  No
- 3. In the case of new or modified equipment, where a Department air construction permit was required, has the owner submitted copies of all operator training certificates?-----  Yes  No
  - a) submitted within the 15 day required window following the training?-----  Yes  No

J. VINCENT

Inspector's Name (Please Print)



Inspector's Signature

9/15/08

Date of Inspection

9/14/09

Approximate Date of Next Inspection

**COMMENTS:**

ON 9/15/08, JV PERFORMED A VISUAL EMISSIONS TEST FOR TRI-COUNTY CREMATORY LOCATED AT AYCOCK FUNERAL HOME AT 505 S. FEDERAL HIGHWAY, STUART, FL 34994. I MET WITH RONALD SWIFT, CREMATORY MANAGER TO VIEW FACILITY; FACILITY WAS CLEAN WITH NO OBJECTIONABLE ODORS DETECTED. A 175 POUND HUMAN BODY WAS PREPARED FOR CREMATION.

THE VISUAL EMISSIONS TEST WAS CARRIED OUT BY RYAN PETERSON OF ARLINGTON ENVIRONMENTAL SERVICES; NO EMISSIONS WERE OBSERVED FOR THE 30-MINUTES OF MY OBSERVATION OR THE 60-MINUTES TESTED BY THE CONSULTANT. THE TEST TEMPERATURE WAS 1682°F, AND A COPY OF THAT RECORD WAS OBTAINED.

# EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)  
 Method 9      203A      203B      Other: \_\_\_\_\_

Company Name  
 SERVICE CORPORATION INTERNATIONAL  
 Facility Name  
 TRI COUNTY CREMATORY - AYOCK  
 Street Address  
 505 S FEDERAL HWY  
 City  
 STUART      State  
 FL      Zip  
 34994

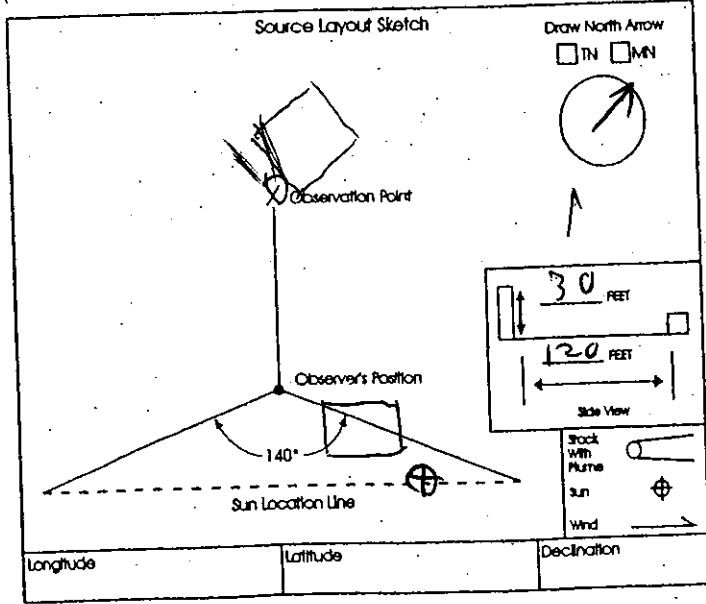
Process  
 CREMATORY      Unit #  
 002      Operating Mode  
 FULL  
 Control Equipment  
 AFTERBURNER      Operating Mode  
 > 1600 °F

Describe Emission Point  
 HUMAN CREMATORY  
 STACK  
 Height of Emiss. Pt.  
 Start 30'      End  
 Height of Emiss. Pt. Rel. to Observer  
 Start 30      End  
 Distance to Emiss. Pt.  
 Start 120'      End  
 Direction to Emiss. Pt. (Degrees)  
 Start 310      End

Vertical Angle to Obs. Pt.  
 Start 12      End  
 Direction to Obs. Pt. (Degrees)  
 Start 50      End  
 Distance and Direction to Observation Point from Emission Point  
 Start 130', 310'      End

Describe Emissions  
 Start NONE      End  
 Emission Color  
 Start CLEAR      End  
 Attached       Detached       None

Describe Plume Background  
 Start BLUE      End  
 Background Color  
 Start BL      End  
 Sky Conditions  
 Start CLEAR      End  
 Wind Speed  
 Start 0-5      End  
 Wind Direction  
 Start SSE      End  
 Ambient Temp.      Wet Bulb Temp.      RH Percent



Additional Information  
 170 LB HUMAN  
 CREMATION

Form Number \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_  
 Continued on VEO Form Number \_\_\_\_\_

Observation Date	Time Zone				Start Time	End Time
9/15/08					8:15	8:45
Sec	0	15	30	45	Comments	
1	0	0	0	0	1682 °F	
2	0	0	0	0		
3	0	5	0	0		
4	0	0	0	0		
5	0	0	0	0		
6	0	0	0	0		
7	0	0	0	0		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
12	0	5	0	0		
13	0	0	0	0		
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29	0	0	0	0		
30	0	0	0	0		

Observer's Name (Print)  
 J. VINCENT  
 Observer's Signature  
 [Signature]  
 Organization  
 FDEP  
 Certified By  
 ETA  
 Date  
 9/15/08  
 Date  
 7/9/08