



HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1270056 **DATE:** 11/23/09 **ARRIVE:** 9:50 a.m. **DEPART:** 11:25 a.m.
FACILITY NAME: TRI-CITY DIVERSIFIED SERVICES
FACILITY LOCATION: 3713 OLD DELAND ROAD
 DAYTONA BEACH 32124-
OWNER/AUTHORIZED REPRESENTATIVE: L.J. Summers **PHONE:** (386)255-7623
CONTACT NAME: Chris Hopkins **PHONE:** (386)255-7623
ENTITLEMENT PERIOD: 6/17/2006 / 6/17/2011
 (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% O₂ 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 (ft³) of flue gas, corrected to 7% O₂ 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? Yes No
 - 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

Allen Rainey

11/23/09

Inspector's Name (Please Print)

Date of Inspection

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS:

- 1. I, Allen Rainey, witnessed visible emissions (VE) testing and performed a compliance inspection. I met with Lawrence Summers, Chris Hopkins, and Barry Meyers of the facility and Stephen Webb of Coastal Air Consulting, Inc. The VE testing was performed by Mr. Webb. No visible emissions were noted from any of the three crematories except heat waves.
- 2. Reviewed temperature charts for all three units from January 2009 to the present. Since February 9, 2009, three days after an enforcement meeting was held at the Department, the facility's charts demonstrate compliance with operation temperature and record keeping requirements. Since that date, there are one to four cremations per chart, and a blank chart is installed on each unit daily. Arrows drawn on the charts designate cremation start and start times. Unit #1, manufactured in 1986 (serial number remains unidentifiable), operates at an average temperature of approximately 1,620 degrees F. Unit #2 (serial number 104329) and Unit #3 (serial number 0781100), both manufactured after 1989, operate at average temperatures of approximately 1,700 degrees F. and 1,675 degrees F., respectively. These temperatures are above the required temperatures. The temperatures displayed by the program logic controllers and the analog chart recorders appeared to be in agreement on all units.
- 3. Spot checked temperature charts from September 2008 to December 2008, which are dates covered and resolved by the last enforcement case (OGC #09-0986).
- 4. Reviewed maintenance records from January 2009 to the present. The records show that a thermocouple was replaced in May on Unit #3, that the afterburner for Unit #2 was repaired in September and that the opacity monitors on the units were checked in August. The floors in Units 1 and 2 were rebuilt during the year.
- 5. Questions 4, 4a, 4b, 4c, 6, 8 in Part II, questions 6 and 6a in Part III and questions 1d, 2, 3 and 3a in Part IV are not applicable
- 6. Questions 1a, 1b, 3a, 3d and 4a in Part III will be determined during a future compliance inspection.
- 7. No objectionable odors were detected on or off of the facility property.