



HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1030096 002 **DATE:** 2/7/07 **ARRIVE:** 1:30 PM **DEPART:** 2:30 PM
FACILITY NAME: Curlew Hills Memory Gardens, Inc.
FACILITY LOCATION: 1750 Curlew Rd.
Palm Harbor, FL
RESPONSIBLE OFFICIAL: Keenan L. Knopke? **PHONE:** 787-7890
CONTACT NAME: David Tremland? **PHONE:** 787-7890
REMITTANCE YEAR: N/A **ENTITLEMENT PERIOD:** 12/09/04 / 02/17/08
(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

Mike Ojo Thomas

Inspector's Name (Please Print)

2/7/07
Date of Inspection

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: See the attached Pinellas County inspection report form for additional information.

Human Crematory

| | | | |
|--|---|---|---|
| FACILITY: Curlew Hills Memory Gardens, Inc. | | Per_ID: 552 | DISTRICT: Southwest |
| ADDRESS: 1750 Curlew Rd. Palm Harbor, FL | | CONTACT: David Schramel Phone No: 787-7890 | |
| ARMS No.: 1030096 002 | PERMIT NO.: 1030096-003-AG | EXPIRATION DATE: 02/17/08 | |
| EMISSION UNIT DESCRIPTION: Human Crematory: B&L Systems, Inc., Model Phoenix II, Series, 350 lb maximum batch. Secondary Chamber 1,600 degrees minimum | | | |
| INSPECTION DATE: 2/7/07 | ARMS INSPECTION TYPE: <input checked="" type="checkbox"/> INS2 or <input type="checkbox"/> INS_____ | COMPLIANCE STATUS: <input checked="" type="checkbox"/> IN <input type="checkbox"/> MNC <input type="checkbox"/> SNC | |
| Type of Inspection: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Re-inspection <input type="checkbox"/> Complaint <input type="checkbox"/> Drive-by <input type="checkbox"/> Quarterly | | | |
| A. General Review: | | | |
| 1. | Permit File Review | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. | Introduction and Entry | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | Comments: This emission unit was inspected to determine the annual compliance status. I met with the crematory manager, Mr. Keenan Knopke and incinerator operator, Dave Schramel for the inspection of the facility and emission unit. | | |
| 3. | <p>Administrative Corrections. Within thirty (30) days of any minor changes requiring corrections to information contained in the registration form, the owner or operator shall notify the Department in writing. Such changes shall include:</p> <p>1. Any change 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</p> <p>2. Any other similar minor administrative change at the facility.</p> <p>Is the Authorized Representative still: <u>Keenan L. Knopke</u>? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is the facility contact still: David Schramel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>[62-210.310(2)(d), F.A.C.]</p> <p>Comments: Mr. David Schramel had a copy of the general permit during the inspection. The permit expires on 2/17/2008.</p> | | |

| I N C | M N C | S N C | |
|-------------------------------------|--------------------------|--------------------------|--|
| B. Specific Conditions | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>No visible emission (5 percent opacity), except that visible emissions not exceeding 20 percent opacity are allowed for up to three minutes in any one hour period. [Rule 62-296.401(1)(a), F.A.C.]</p> <p>Comments: The last annual visible emissions test, conducted on 1/3/06 demonstrated an opacity of 0%. An AQD VE test was performed during this site visit <input type="checkbox"/>Yes or <input checked="" type="checkbox"/>No. An opacity of __n/a__% was observed. Emission unit was not in operation at the time, due lack of business.</p> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Human crematory units shall operate with a secondary chamber temperature of no less than :</p> <p><input type="checkbox"/> 1600 degrees Fahrenheit throughout the combustion process in the primary chamber, for construction applications received by the Department on or after August 30, 1989. Cremation in the primary chamber shall not begin unless the secondary chamber combustion zone temperature is equal to or greater than 1600 degrees Fahrenheit. [Rule 62-296.401(5)(c), F.A.C.], or</p> <p><input type="checkbox"/> 1400 degrees Fahrenheit throughout the combustion process in the primary, for construction applications received by the Department prior to August 30, 1989. Cremation in the primary chamber shall not begin unless the secondary chamber combustion zone temperature is equal to or greater than 1400 degrees Fahrenheit. [Rule 62-296.401(5)(d), F.A.C.]</p> |

Human Crematory

| I N C | M N C | S N C | B. Specific Conditions |
|--------------------------|--------------------------|--------------------------|---|
| | | | <p>Comments: Facility is required to operate at a temperature of 1600 ° F based on <input type="checkbox"/> identical stack testing, <input type="checkbox"/> source specific stack testing and visible emissions tests, or <input type="checkbox"/> rule. Based on record reviews, the lowest operating temperature observed was 1530 ° F. Mr. Schramel stated that the temperature drop below 1600 ° F was due to the power failure that occurred on 6/8/06. AQ Division was notified of the power failure on 6/12/06.</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Human crematories shall cremate only dead human bodies with appropriate containers. The bodies may be clothed. The containers may contain no more than 0.5 percent by weight chlorinated plastics as demonstrated by the manufacturer's data sheet. If containers are incinerated, documentation from the manufacturers certifying that they are composed of 0.5 percent or less by weight chlorinated plastics must be kept on-file at the site for the duration of their use and for at least two years after their use. No other material, including biomedical waste as defined in Rule 62-210.200, F.A.C., shall be incinerated. [Rule 62-296.401(5)(e), F.A.C.]</p> <p>Comments: Reviewed records for the months of _____. The highest reported chlorine content was ____%. Supporting documentation was verified (<input type="checkbox"/> Yes or <input type="checkbox"/> No)</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>All crematory operators shall be trained by the equipment manufacturer's representatives or another qualified organization. Only operators trained by a Department-approved training program shall be allowed to operate a human crematory. A copy of the training certificate for each operator having satisfactorily completed the Department-approved training program must be submitted to the Department within 15 days of training. An operator's certificate must be kept on file at the facility for the duration of the operator's employment and for an additional two years after termination of employment. [Rule 62-296.401(f), F.A.C.]</p> <p>Comments: The official training is to be provided by _____. The certifications were verified for each operator (<input type="checkbox"/> Yes or <input type="checkbox"/> No). The current trained operators are:</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>New and existing facilities permitted pursuant to Rule 62-210.300(4), F.A.C., Air General Permits, shall demonstrate individual source compliance with the visible emissions standard within 60 days prior to the submittal date of the air general permit notification form and within 60 days prior to each anniversary of such date. [Rule 62-296.401(5)(i), F.A.C.]</p> <p>Comments: The last test was conducted on _____. This is / is not within the allowable 60 day window.</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [62-297.310(7)(a)9, F.A.C.]</p> <p>Comments: The County was notified on _____, for the test that was conducted on _____</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Test Reports. - The required test report shall be filed with the PCDEM as soon as practical but no later than 45 days after the test is completed. [62-297.310(8), F.A.C.]</p> <p>Comments: The last test was conducted on _____, and the test results were submitted on _____.</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Continuous Emissions Monitoring Requirements. Each human crematory shall install, operate, and maintain continuous monitors to record temperature at the point or beyond where 1.0 second gas residence time is obtained in the secondary chamber combustion zone in accordance with the manufacturer's instructions. A complete file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; and adjustments, preventive maintenance, and corrective maintenance performed on these systems or devices, shall be recorded in a permanent legible form available for inspection. Continuous temperature monitoring documentation shall include operator name, operator indication of when cremation in the primary chamber begins, date, time, and</p> |

Human Crematory

| I N | M N C | S N C | B. Specific Conditions |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>temperature markings. The file shall be retained for at least two years following the recording of such measurements, maintenance, reports, and records. [Rule 62-296.401(5)(k), F.A.C.]</p> <p><i>Comments:</i> Reviewed temperature charts for the months of _____. The last calibration on the temperature chart was on _____. The temperature probe appears properly placed (<input type="checkbox"/> Yes or <input type="checkbox"/> No)</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Process Rate</p> <p><i>Comments:</i> The maximum load for this crematory unit is _____ pounds. The largest body cremated during this review period was _____.</p> |
| I N | M N C | S N C | C. Selected General Conditions and Procedures |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>If, for any reason, the owner or operator of any facility operating under an air general permit pursuant to Rule 62-210.300(4)(a), F.A.C., does not comply with or will be unable to comply with any condition or limitation of the permit, the permittee shall immediately provide the Department with the following information:</p> <ol style="list-style-type: none"> 1. A description of and cause of noncompliance; and 2. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result. <p>[62-210.310(3)(i), F.A.C.]</p> <p><i>Comments:</i></p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Valid Permit</p> <p>To avoid lapse of authority to operate, an owner or operator intending to use, or continue to use, an air general permit must submit the proper registration form and processing fee at least thirty (30) days prior to expiration of the facility's existing air operation permit or air general permit.</p> <p>[62-210.310(2)(c)2., F.A.C.]</p> <p><i>Comments:</i> The permit expires on 02/17/08. A new notification form is required to be submitted no later than 01/18/08.</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Equipment Changes. The owner or operator shall maintain records of all equipment changes. In the case of installation of new process or air pollution control equipment, alteration of existing process or control equipment without replacement, or replacement of existing process or control equipment with equipment substantially different in terms of capacity, method of operation, material processed, or intended use than that noted on the most recent registration form, the owner or operator shall submit a new and complete air general permit registration form for the facility with the appropriate fee pursuant to Rule 62-4.050, F.A.C. to the Department, provided, however, that any change that would constitute a new major stationary source, major modification, or modification that would be a major modification but for the provisions of paragraph 62-212.400(2)(a), F.A.C., shall require authorization by air construction permit.</p> <p>[62-210.310(2)(e)., F.A.C.]</p> <p><i>Comments:</i></p> |
| | | | D. Other: |
| | | | <p>Closing Conference <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>Comments:</i></p> |

Human Crematory

Other Comments:

Inspector(s): Mike Ojo Thomas, Pinellas County, Air Quality Division

Signature(s)

Date:

CONTACT LOG? _____, **ACCESS?** _____, **ARMs?** _____

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