

#### **HUMAN CREMATORY**



### COMPLIANCE INSPECTION CHECKLIST

| INSPECTION TYPE: ANNUAL (INS1, INS2) ☐ COMPLAINT/DISCOVERY (CI) ☐ RE-INSPECTION (FUI) ☐ ARMS COMPLAINT NO:   |                    |          |          |
|--|--------------------|----------|----------|
| AIRS ID#: 1030516 001 DATE:11/27/2007 ARRIVE:2:00 PM DEPART:3:00 P  FACILITY NAME: Gee & Sorensen Funeral Home and Cremation Services  | M                  |          |          |
| <b>FACILITY LOCATION:</b> 3180 30th. Avenue North  |                    |          |          |
| St. Petersburg, FL   |                    |          | ļ        |
| RESPONSIBLE OFFICIAL: Richard Sorensen? PHONE: 727-323-5111  |                    |          |          |
| CONTACT NAME: Richard Sorensen? PHONE: 727-323-5111  |                    |          |          |
| REMITTANCE YEAR: N/A ENTITLEMENT PERIOD: 5/10/2007 / 5/10/12 (effective date) (end date)   |                    |          |          |
| PART II: TESTING/RECORDKEEPING REQUIREMENTS – Rule 62-296.401, F.A.C. (check appropriate box(es))  |                    |          |          |
| (check appropriate box(es))  1. Were there any objectionable odor(s) detected?   | □Yes               | ⊠ N      | No .     |
|  | ∐Yes               | × N      | То       |
|  | ⊠Yes               | □ N      |          |
|  | ⊠Yes               | □ N      | Vо       |
| 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 |                    | ш т      |          |
| 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<br>⊠Yes       | _<br>_ N |          |
| 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<br>⊠Yes       |          | No       |
| 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.)?   | <ul><li></li></ul> |          | 10<br>10 |

| PART III: OPERATING/RECORDKEEPING REQUIREMENTS – Rule 62-296.401, F.A.C.   |                                     |  |
|--|-------------------------------------|--|
| (check appropriate box(es))  |                                     |  |
| <ul><li>a) Do temperature probes seem to be properly placed?</li><li>b) Are the following records kept on file, available for inspection for at least two years following the record</li></ul>   | bustion<br>∐Yes<br>∐Yes             | zone in No No  |
| 2) Monitoring device   | Yes Yes Yes Yes Yes Yes Yes Yes Yes | No         No         No         No         No         No         No         No         No |
| 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:   |                                     |  |
| <ul> <li>a) secondary chamber combustion zone providing at least a 1.0 second gas residence time @ 1600°F?</li> <li>b) actual operating temperature of the secondary chamber combustion zone no less than 1400°F throughout the combustion process in the primary chamber?</li></ul> | Yes Yes Yes Yes                     | <ul><li>No</li><li>No</li><li>No</li><li>No</li><li>No</li></ul>                           |
| <ul> <li>4. If constructed <u>ON</u> or <u>AFTER</u> August 30, 1989 is the:</li> <li>a) volume in the secondary combustion zone sufficient to provide at least a 1.0 second gas residence time</li> </ul>   | _<br>]Yes                           | ☐ No   |
| c) secondary chamber combustion zone temperature equal to or greater than <b>1600°F</b> before the cremation   | □Yes                                | <ul><li>□ No</li><li>□ No</li></ul>  |
| 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  | ☐Yes<br>☐Yes                        | □ No   |
| this location?  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  | Yes Yes ion Yes                     | ☐ No<br>☐ No<br>☐ No   |

| PART IV: SPECIAL CONDITIONS AND PROCEDURE A. New or Modified Process Equipment  | <u>ES</u> – Rule 62-296.401, F.A.C.  |
|---|--|
| <ol> <li>Since the last inspection has there been</li> <li>a) installation of any new process equipment?</li> <li>b) alterations to existing process equipment without c) replacement of existing equipment substantially recent notification form?</li></ol> | out replacement?   |
| d) If you answered <u>YES</u> to any of the above, did the notification form and appropriate fee (Rule 62-4 local program office?————————————————————————————————————   | the owner submit a new and complete 4.050, F.A.C.) to the appropriate DEP or |
| 3. In the case of new or modified equipment, where a I required, has the owner submitted copies of all oper a) submitted within the 15 day required window fo   | rator training certificates? Yes No  |
| Mike Ojo Thomas   | 11/27/2007   |
| Inspector's Name (Please Print)   | Date of Inspection   |
| Inspector's Signature   | Approximate Date of Next Inspection  |
| COMMENTS: See the attached Pinellas County inspection r   | report form for additional information                                       |

| FA(<br>Serv                      |             |  | Y: Gee & Sorensen Fu   | neral Home and Cremation  |   | DEDMIT ID.  | 2769   |
|----------------------------------|-------------|--|--|---|---|---|--|
| Seiv                             | VIC         | .65  | Hamira O Vatarra   | O   |   | PERMIT ID:  |  |
| A.FD                             | DD          | TO   | Hospice & Veterans   | -   |   | DISTRICT:   | Southwest  |
| ADDRESS: 3180 30th. Avenue North |             |  |  | orui  |   | CONTACT PHO   |  |
| A D                              | N/IS        | S NO   | St. Petersburg, FL   | PERMIT NO:  |   | 727-323-5<br>Expiration Date  |  |
| AK                               |             |  |  |   |   | Renewal Date:   | 4/10/12  |
|                                  | 1           | L03  | 0516 001   | 1030516-002-AG  | -   | Test Date:  | N/A  |
|                                  |             |  |  | ıman Crematory: B&L Systems, Model I<br>ght of 300 pounds. Larger weights requi   |   |   |  |
| INS                              | PE          | CTI  | ON DATE:   | ARMS INSPECTION TYPE:   | COM   | PLIANCE STATU   | JS:  |
| 11                               | 1/2′        | 7/20   | 07   | ⊠INS2 or □INS   | $\boxtimes$ I                                       | N MNC   | □SNC   |
| 7                                | Гур         | e of   | Inspection:  | Re-inspection Complai   | nt  | ☐Drive-by   | Quarterly  |
|                                  |             |  |  | A. General Review:  |   |   |  |
| 1.                               | I           | Pern   | nit File Review  | THE GENERAL REVIEW  |   |   | ⊠Yes □ No  |
| 2.                               | I           | ntro   | duction and Entry  |   |   |   | ⊠Yes □ No  |
| 3.                               | t t         | Admident Adm | ssion unit. Emission unit by storage inside the building sinistrative Corrections. Within egistration form, the owner or consumption Any change in the name, add ge in ownership or with a physical Any other similar minor adminite Authorized Representative to facility contact still: Richard 210.310(2)(d), F.A.C.] | thirty (30) days of any minor changes reperator shall notify the Department in writers, or phone number of the facility or sical relocation of the facility or any emistrative change at the facility.  still: Richard Sorensen?                                  | requirir<br>riting. S<br>author<br>ssions t         | The human cren  ng corrections to in Such changes shall rized representative                                  | natory incinerator in  nformation contained in include: e not associated with a                              |
| I                                | M<br>N<br>C | S<br>N<br>C  |  | B. Specific Conditions  |   |   |  |
|                                  |             |  | visible emissions not exceedin hour period. [Rule 62-296.40]  Comments: The last annual v of _n/a%.  An AQD VE test was performe   | missions shall not exceed five percent (5% g fifteen percent (15%) opacity shall be a (5)(b)1, F.A.C.]  isible emissions test, conducted on _n/a_ d during this site visit \( \textstyre{Y}\)es or \( \textstyre{N}\)o. A  ng is under construction at this time. | llowed<br>der<br>n opac                             | for up to six (6) menonstrated an opacity of _n/a% we   | city  as observed.   |
|                                  |             |  | Operating Temperature - Hu ( ☐ 1600 degrees Fahrenheit received by the Departme the secondary chamber co 62-296.401(5)(c), F.A.C.] ☐ 1400 degrees Fahrenheit by the Department prior t   | man crematory units shall operate with a throughout the combustion process in the ent on or after August 30, 1989. Crematic ombustion zone temperature is equal to or   | e prima<br>on in the<br>greate<br>priman<br>nary ch | ary chamber, for co<br>e primary chamber<br>r than 1600 degree<br>ry, for construction<br>namber shall not be | onstruction applications r shall not begin unless es Fahrenheit. [Rule applications received egin unless the |

| I<br>N | M<br>N<br>C | S<br>N<br>C | B. Specific Conditions   |
|--------|-------------|-------------|--|
|        |             |             | Comments: Facility is required to operate at a temperature of 1600_° F based on ☐ identical stack testing, ☐ source specific stack testing and visible emissions tests, or ☐ rule. Based on record reviews, the lowest operating temperature observed was _n/a° F  Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed.  |
|        |             |             | Allowed Materials - Human crematory units shall cremate only human or fetal remains with appropriate containers. The remains may be clothed. The containers shall 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 manufacturer certifying that they are composed of 0.5 percent or less by weight chlorinated plastics shall be kept on-file at the site for the duration of their use and for at least two (2) 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)(d), F.A.C.]  Comments: Reviewed records for the months of _n/aThe highest reported chlorine content was _n/a%. Supporting documentation was verified (\bigcup Yes or \bigcup No)  Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed.   |
|        |             |             | Equipment Maintenance -All human crematory units shall be maintained in proper working order in accordance with the manufacturer's specifications to ensure the integrity and efficiency of the equipment. If a crematory unit contains a defect that affects the integrity or efficiency of the unit, the unit shall be taken out of service. No person shall use or permit the use of that unit until it has been repaired or adjusted. Repair records on all crematory units shall be maintained onsite for at least two years. A written plan with operating procedures for startup, shutdown and malfunction of each crematory unit shall be maintained and followed during those events. Each unit's burners shall be operated with a proper air-to-fuel ratio. If the unit so allows, the burners' flame characteristics shall be visually checked at least once during each operating shift and adjusted when warranted by the visual checks. [Rule 62-296.401(5)(e), F.A.C.]  **Comments: The facility* (\begin{array}{c} does not \) have a written plan for operating procedures for startup, shutdown and malfunction.  *Repair records were reviewed for the months of The records were available and maintained on site for a period of years.  The crematory unit (\begin{array}{c} does not \) allow, the burners' flame characteristics shall be visually checked. The flame (\begin{array}{c} was not \begin{array}{c} NA \) observed during each shift. |
|        |             |             | Frequency of Testing.  1. The owner or operator of any human crematory unit using an air general permit shall have a performance test conducted for visible emissions no later than thirty (30) days after the unit commences operation, and annually thereafter.  2. The owner or operator of any human crematory unit operating under the authority of an air construction permit or air operation permit shall have a performance test conducted for visible emissions prior to submitting the application for an initial air operation permit, and annually thereafter.  3. The owner or operator of any human crematory unit shall not be required to have performance tests conducted for carbon monoxide and particulate matter, except as provided at paragraph 62-297.310(7)(b), F.A.C.  [Rule 62-296.401(5)(h), F.A.C.]  Comments: The last test was conducted on _n/a This( \subseteq is not) within the allowable 60 day window.  Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed.   |
|        |             |             | Test Notification - 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.]  Comments: The County was notified onn/a, for the test that was conducted onn/a  This( \subseteq is not) within the allowable 15 day window.  Note: Emission unit building is under construction at this time. The human crematory incinerator in cold   |

| I<br>N      | M<br>N<br>C | S<br>N<br>C | B. Specific Conditions  |
|-------------|-------------|-------------|---|
|             |             |             | storage inside the building been constructed.   |
| $\boxtimes$ |             |             | <u>Test Reports</u> - 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.]  |
|             |             |             | Comments: The last test was conducted on _n/a, and the test results were submitted on _n/a  This( \subseteq is not) within the allowable 45 day window.   |
|             |             |             | Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed.  |
|             |             |             | Continuous Monitoring Requirements- Each crematory unit shall be equipped and operated with a continuous monitor 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. In addition, each crematory unit installed after February 1, 2007, shall be equipped and operated with a pollutant monitoring system to automatically control combustion based on continuous in-stack opacity measurement. Such system shall be calibrated to restrict combustion in the primary chamber whenever any opacity exceeding 15% opacity is occurring. A complete file of all temperature measurements; all continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; and all 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 was begun, date, time, and temperature markings. Pollutant monitoring system documentation shall include indication of when the opacity measurement system was cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule. The file shall be retained for at least two (2) years following the recording of such measurements, maintenance, reports, and records. [Rule 62-296.401(5)(i), F.A.C.]  **Comments: Reviewed temperature charts for the months of _n/a The last calibration on the temperature chart was on _n/a The temperature probe appears properly placed ( Yes or  No).  This facility ( was/ was no)t installed after February 1, 2007, therefore ( must/ does no)t have to be equipped and operated with a pollutant monitoring system to aut |
| $\boxtimes$ | Ш           | L           | <u>Process Rate</u>   |
|             |             |             | Comments: The maximum load for this crematory unit is 300 pounds. The largest body cremated during this review period wasn/a  Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed.  |
|             | M           | S           | · · · · · · · · · · · · · · · · · · ·   |
| I<br>N      | N<br>C      | N<br>C      | C. Selected General Conditions and Procedures   |
|             |             |             | <ul> <li>Periods of Noncompliance - 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: <ol> <li>A description of and cause of noncompliance; and</li> <li>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.</li> </ol> </li> <li>[62-210.310(3)(i), F.A.C.] </li> <li>Comments: Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed.</li> </ul>   |
|             |             |             |   |

|   | M  | S            |   |  |  |
|---|--|--------------|---|--|--|
| Ι   | N  | N            |   |  |  |
| N   | C  | $\mathbf{C}$ | C. Selected General Conditions and Procedures   |  |  |
| $\boxtimes$   |  |              | Valid Permit  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.  [62-210.310(2)(c)2., F.A.C.]  Comments: The permit expires on 5/10/12. A new notification form is required to be submitted no later than 4/10/12.  |  |  |
|   |  |              |   |  |  |
| $\boxtimes$   |  |              | 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. [62-210.310(2)(e)., F.A.C.]  Comments: Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed. |  |  |
|   | D. Other:  |              |   |  |  |
| Clo   | sing   | g Co         | nference SYes No  |  |  |
|   | Comments: Note: Emission unit building is under construction at this time. The human crematory incinerator in cold storage inside the building been constructed. |              |   |  |  |
| Otł   | Other Comments:  |              |   |  |  |
| I told Mr. Rouzer there has some changes to the General Permit rules in January 10, 2007. I explained to Mr. Rouzer that they need to have a written plan with operating procedures for startup, shutdown and malfunction of crematory unit onsite. |  |              |   |  |  |
| He stated he would have the written plan with operating procedures onsite within 30 days and copy AQ Division office. I   |  |              |   |  |  |
| told Mr. Sorensen, the facility appears to be in non-compliance at this time.   |  |              |   |  |  |
| Inspector(s): Mike Ojo Thomas, Pinellas County, Air Quality Division  |  |              |   |  |  |
|   | nati   |              |   |  |  |

CONTACT LOG? \_\_yes\_\_, ACCESS? \_yes\_\_, ARMs? \_yes\_\_ H:\users\wpdocs\airqual\Air\_Compliance\AQI\1030516 001 62184.doc