

# Animal Crematory



## ANIMAL CREMATORY



### COMPLIANCE INSPECTION CHECKLIST

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

**AIRS ID#:** 1030020 001      **DATE:** 5/19/06      **ARRIVE:** 1:00 PM      **DEPART:** 3:00  
**FACILITY NAME:** SPCA of Pinellas County  
**FACILITY LOCATION:** 9099 130th Ave. North  
Largo., FL  
**RESPONSIBLE OFFICIAL:** Elizabeth Lockwood      **PHONE:** 727-586-3591  
**CONTACT NAME:** Elizabeth Lockwood      **PHONE:** 727-586-3591  
**REMITTANCE YEAR:** N/A      **ENTITLEMENT PERIOD:** 7/4/2003 / 07/04/08  
(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(6)(j), 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

## Animal Crematory

### **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 leak-proof containers containing no more than 0.5 % (percent) by weight chlorinated plastics used during the cremation of dead animals?-----  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) If plastic bags are used for the cremation of animals are they non-chlorinated and no less than 3 mils thick?-----  Yes  No
  - c) Are dead animals, which have been used for medical or commercial experimentation, or other materials, including biomedical wastes (Rule 62-210.200, F.A.C.), incinerated at this location?-----  Yes  No
6. During this review period, was the largest batch load cremated 500 pounds per hour or less?-----  Yes  No
7. Have all crematory operators been trained and certified by a Department-approved training program?---  Yes  No
  - a) Are copies of the training certificates 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

## Animal Crematory

**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?-----  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| b) alterations to existing process equipment without replacement?-----  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| c) replacement of existing equipment substantially different than that noted on the most recent notification form?-----   | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| d) If you answered <b>YES</b> 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?----- | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> 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?-----                           | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> 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?-----                              | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| a) submitted within the 15 day required window following the training?-----   | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Mike Ojo Thomas

\_\_\_\_\_  
Inspector's Name (Please Print)

5/19/2006

\_\_\_\_\_  
Date of Inspection

\_\_\_\_\_  
Inspector's Signature

5/19/2006

\_\_\_\_\_  
Approximate Date of Next Inspection

**COMMENTS:** The emission unit was not in operation at the time; therefore VE test was not observed. Reviewed records for the months of 10/1/05 through 5/19/05 indicated emission unit in compliance.



<b>FACILITY:</b> SPCA of Pinellas County		<b>Per_ID:</b> 178	<b>DISTRICT:</b> Southwest
<b>ADDRESS:</b> 9099 130th Ave. North Largo, FL		<b>CONTACT:</b> Elizabeth Lockwood Phone No: 727-586-3591	
<b>ARMS No.:</b> 1030020 001	<b>PERMIT NO.:</b> 1030020-004-AG	<b>EXPIRATION DATE:</b> 07/04/08	
<b>EMISSION UNIT DESCRIPTION:</b> Animal Crematory: Industrial Equipment & Engineering Company, Model IE43-PPJ with a maximum design batch load of 300 pounds			
<b>INSPECTION DATE:</b> 5/19/2006	<b>ARMS INSPECTION TYPE:</b> <input checked="" type="checkbox"/> INS2 or <input type="checkbox"/> INS_____	<b>COMPLIANCE STATUS:</b> <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			
<b>A. General Review:</b>			
1.	Permit File Review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2.	Introduction and Entry  <i>Comments: Ms. Lockwood was present during the facility inspection.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3.	<b>Is the Authorized Representative still: <u>Elizabeth Lockwood</u>?</b> <i>Comments:</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
4.	<b>Is the facility contact still: Elizabeth Lockwood?</b> <i>Comments:</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>B. Specific Conditions</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No objectionable odor allowed. [Rule 62-296.401(1)(b), F.A.C.]  <i>Comments: An upwind/downwind survey of the facility was conducted. The observed parameters were: Downwind odor detected- 0; Wind direction - <b>South</b> Upwind odor detected-0</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No visible emissions (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.]  <i>Comments: The last annual visible emissions test, conducted on 4/29/05 demonstrated an opacity of <u>0</u>%. 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.</i>

I N	M N C	S N C	<b>B. Specific Conditions</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Crematory units shall operate with a secondary chamber temperature of no less than :</p> <ul style="list-style-type: none"> <li><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(6)(c), F.A.C.], or</li> <li><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(6)(d), F.A.C.]</li> </ul> <p><i>Comments: Facility is required to operate at a temperature of <b>1600 ° F</b> based on (<input type="checkbox"/> identical or <input type="checkbox"/> source specific) stack testing and visible emissions tests. Based on record reviews, the lowest operating temperature observed was <b>1619_ degrees Fahrenheit</b></i></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Animal crematories shall cremate only dead animals and, if applicable, the bedding and the remains associated with the animals, placed in leak-proof containers. Containers may contain no more than 0.5 percent by weight chlorinated plastics. Plastic bags used for the cremation of animals shall be nonchlorinated and no less than 3 mils thick. 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. This documentation must also be submitted with any application for an initial or renewal air operation permit or air general permit notification form. 62.296.401(6)(e), F.A.C.</p> <p><i>Comments: Reviewed records for the months of 10/1/05 through 5/19/06. The highest reported chlorine content was <u>0%</u> for containers, and <b>0 %</b> for plastic bags. Supporting documentation was verified (<input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No)</i></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Animal crematories shall not cremate dead animals which were used for medical or commercial experimentation. No other material, including biomedical waste as defined in Rule 62-210.200, F.A.C., shall be incinerated. 62.296.401(6)(f), F.A.C.</p> <p><i>Comments: The facility was observed only having animal remains on site.</i></p>
<input checked="" 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 an animal 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(6)(g), F.A.C.]</p> <p><i>Comments: The official training is to be provided by <b>Industrial Equipment &amp; Engineering Company</b>. The certifications were verified for each operator (<input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No). The current trained operators are: <b>Ms. Beth Lockwood, Ms. Connie Brooks, Scott Daley and Richard Levi</b>.</i></p>

I N	M N C	S N C	<b>B. Specific Conditions</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Continuous Emissions Monitoring Requirements. Each animal 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 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(6)(1), F.A.C.]</p> <p><i>Comments: Reviewed temperature charts for the months of 10/1/05 through 5/19/05. The last calibration on the temperature chart was on 11/28/03. The temperature probe appears properly placed (<input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No)</i></p>
<input checked="" 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><i>Comments: The last test was conducted on 4/29/05. This is within the allowable 60 day window.</i></p>
<input checked="" 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><i>Comments: The County was notified on 4/14/05, for the test that was conducted on 4/29/05.</i></p>
<input checked="" 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. [Rules 62-213.440 and 62-297.310(8), F.A.C.]</p> <p><i>Comments: The last test was conducted on 4/29/05, and the test results were submitted on 5/22/2005.</i></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Process Rate</p> <p><i>Comments: The maximum batch load for this crematory unit is 300 pounds. The largest batch load cremated during this review period was 150 pounds.</i></p>
I N	M N C	S N C	<b>C. Selected General Conditions and Procedures</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Administrative Corrections. Within 30 days of any changes requiring corrections to information contained in the notification form, the owner or operator shall notify the Department in writing. Such changes shall include:</p> <ol style="list-style-type: none"> <li>a. Any change in the name of the authorized representative or facility address or phone number; or</li> <li>b. Any other similar minor administrative change at the facility or emissions unit.</li> </ol> <p>[62-210.300(4)(d)3., F.A.C.]</p> <p><i>Comments: Not applicable at this time.</i></p>

I N C	M N C	S N C	
<b>C. Selected General Conditions and Procedures</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Equipment Changes.</b> In case of the installation of new process equipment, alteration of existing process equipment without replacement, or the replacement of existing process equipment with equipment substantially different than that noted on the most recent notification form, the owner or operator shall submit a new and complete general permit notification form with the appropriate fee pursuant to Rule 62-4.050, F.A.C., to the appropriate Department of Environmental Protection district office or local air pollution control program office to which the Department has delegated its permitting authority. [62-210.300(4)(d)3., F.A.C.]</p> <p><i>Comments: The facility had not added any additional EU or made any changes to the existing EU.</i></p>
<input checked="" 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"> <li>1. A description of and cause of noncompliance; and</li> <li>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.</li> </ol> <p>[62-210.300(4)(e)13., F.A.C.]</p> <p><i>Comments: Ms. Lockwood stated the emission unit had not had any upsets condition.</i></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Valid Permit</b></p> <p>Throughout the term of the general permit:</p> <ol style="list-style-type: none"> <li>a. The facility operates no emissions units other than a unit described in an air general permit and emissions units which are exempt from permitting pursuant to the criteria of Rule 62-210.300(3)(a) or (b), F.A.C.;</li> <li>b. The facility is not a Title V source as defined in Rule 62-210.200, F.A.C.</li> </ol> <p>[62-210.300(4)(c), F.A.C.]</p> <p><i>Comments: The emission unit had a valid permit through 7/4/2008.</i></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>A permittee's use of a general permit is limited to five years. No later than 30 days prior to the fifth anniversary of the filing of intent to use the general permit, the owner or operator shall submit a new notice of intent which shall contain all current information regarding the facility or emissions unit. Eligibility to use the general permit is not transferable and does not follow a change in ownership of the facility or emissions unit. Prior to any sale, other change of ownership, or permanent shutdown of the facility, the owner or operator is encouraged to notify the Department of the pending action. The owner shall remain liable for corrective actions that may be required as a result of any violations occurring in the time after the sale or legal transfer of the facility or emissions unit, but before a new owner is entitled to use an air general permit. [General Conditions - 62-210.300(4)(e)1., F.A.C.]</p> <p><i>Comments: The permit expires on 07/04/08. A new notification form is required to be submitted no later than 05/05/08.</i></p>
<b>D. Other:</b>			
Closing Conference			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Other Comments: The emission unit was not in operation at the time; therefore VE test was not observed. Reviewed records for the months of 10/1/05 through 5/19/06 indicated emission unit in compliance.			
<b>Inspector(s):</b> Mike Ojo Thomas, Pinellas County, Air Quality Division			
<b>Signature(s)</b>			Date: 5/23/06

CONTACT LOG? \_\_Yes\_\_, ACCESS? \_Yes\_, ARMs? \_Yes\_\_

H:\users\wpdocs\airqual\Air\_Compliance\AQI\1030020 001 52397.doc