

HUMAN CREMATORY



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE :	ANNUAL (INS1, INS2)		OVERY (CI)		
	RE-INSPECTION (FUI)	ARMS COMPLAINT	NO:		
AIRS ID#: 0090019 DA	ATE: <u>2/25/09</u>	ARRIVE:	DEPART:		
FACILITY NAME: MELBOURNE CREMATORY (Brownlie-Maxwell Funeral Home P.A.)					
FACILITY LOCATIO	N: 1010 E PALMETTO	AVE			
	MELBOURNE 329	901			
OWNER/AUTHORIZED REPRESENTATIVE: MICHAEL BROWNLIE PHONE: (321)727-1746					
CONTACT NAME: Michael Brownlee PHONE: (321)727-1746					
ENTITLEMENT PERIOD: 4/29/2004 / 4/29/2009 (effective date) (end date)					
PART I: INSPECTION COMPLIANCE STATUS (check ✓ only one box) ☐ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE					
DARW MEGNING		THE TENTES IN L. CO. OO. AO.	1.7.4.0		
PART II: TESTING/RI (check ☑ appropria		<u>REMENTS</u> – Rule 62-296.401	1, F.A.C.		
(check ☑ appropria 1. Were there any o	ate box(es)) bjectionable odor(s) detected?			☐ Yes ⊠ No	
 (check appropria Were there any o Was a visible em 62-297, F.A.C.)? 	ate box(es)) bjectionable odor(s) detected? issions test conducted during t	his site visit according to EPA	Method 9 (Ref.: Chapter	☐ Yes ⊠ No ☐ Yes ⊠ No	
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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 co	ombustion zone in
accordance with the manufacturer's instructions?	
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 re	cording of such
measurements, maintenance, reports and records?	
1) All measurements (including CEMS)	⊠Yes ☐ No
2) Monitoring device	
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 <u>BEFORE</u> 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 ting 2 1800° F?	
	⊠Yes ☐ No
b) the actual operating temperature of the secondary chamber combustion zone no less than 1600°F	□Vac ⊠ Na
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 crematic process begins in the primary chamber?	
5. Are appropriate cremation containers containing no more than 0.5 % (percent) by weight chlorinated	☐Yes ⊠ No
	⊠vas □ Na
plastics used during the cremation of dead human bodies?a) If the answer to question 4 above is YES, is certifying documentation from the manufacturer that the	⊠Yes □ No
are composed of 0.5% or less by weight chlorinated plastics kept on file at the site for the duration o	
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 du	
of the operator's employment & for an additional two years after termination of employment?	□Yes □ No

PART IV: SPECIAL CONDITIONS AND PROCEDURE A. New or Modified Process Equipment	<u>ES</u> – Rule 62-296.401, F.A.C.
 Since the last inspection has there been a) installation of any new process equipment? b) alterations to existing process equipment with c) replacement of existing equipment substantiall recent notification form? d) If you answered <u>YES</u> to any of the above, did notification form and appropriate fee (Rule 62 local program office? If a crematory unit has been modified to the extent was required, have all operators been retrained to off. In the case of new or modified equipment, where a required, has the owner submitted copies of all operators all submitted within the 15 day required window for the state of the process of th	out replacement? ly different than that noted on the most
Allen Rainey	2/25/09
Inspector's Name (Please Print)	Date of Inspection
	2/25/10
Inspector's Signature	Approximate Date of Next Inspection

COMMENTS:

- 1. Upon my arrival, the PowerPak II Industrial Equipment & Engineering Co. crematory unit was completing the cremation started for the visible emission test done by Arlington Environmental. The digital temperature device showed 1,623 degrees F., and the temperature chart showed the same temperature. The crematory operator stated the unit took a long time to warm up and that a 400-pound body was cremated. Mr. Brownlie stated the unit was installed two or three years ago. Records received 3/12/09 indicate the unit was installed in May 1993.
- 2. Questions in Part II, numbers 3 8, Part III, number 3 and Part IV, numbers 2 & 3 are not applicable.
- 3. Requested temperature chart records from January 2007 to the present. Performed random review of temperature chart records provided from November 2006 to the present. One temperature chart is used for multiple days, with seven to eight cremations per chart and no more than three cremations per day. The operator's name is not recorded on the charts.
- 4. From Nov. 2006 to 7/14/08, the temperature chart recordings show that cremations occurred at or above 1,600 degrees F. After 7/14/08, which is on or before a refractory re-build was done, cremations frequently started before the temperature in the secondary chamber reached 1,600 degrees F., and throughout the cremations, temperatures frequently dropped below 1,600 degrees. Noncompliance with temperature requirements was observed within at least 95 cremations from 7/14/08 to 3/2/09. Additional cremations after 11/18/08 were spot-checked during the inspection and were not performed at the required temperature. Received copies of charts for cremations performed 7/14/08 to 3/2/09. Highlighted temperature markings show improper cremation temperatures. The crematory operator stated the unit's afterburner shuts off in the middle of cremations. The facility has failed to to comply with operation temperature requirements (Rule 62-296.401(5)(c)1, F.A.C.).
- 5. Requested maintenance, repair and calibration records from January 2007 to January 2009 (received 3/12/09). Service Call Checklist dated 5/13/08 indicates the unit needs to be rebuilt. It indicates the unit chamber walls were falling apart, the throat roof was half gone, the divider wall was very close to collapsing, and that the floor was incapable of containing fluids. As indicated above, the unit was rebuilt on or before 7/14/08 (copy of specific work activities performed on that date was not provided in records received 3/12/09). The facility has failed to comply with equipment mainentance requirements (Rule 62-296.401(5)(e), F.A.C.).
- 6. No body bags are incinerated. Material Safety Data Sheets (MSDS) are maintained on all cremation products. Only cardboard boxes that do not contain plastics are incinerated.
- 7. A re-registration form was received by the Department's Tallahassee office on 2/13/09.