F&A Receipt 532400
Mar 29 2012

HUMAN CREMATORY
AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. *($100 as of the effective date of this form)*

0330290-001

Registration Type

Check one:

INITIAL REGISTRATION – Notification of intent to:

- ☒ Construct and operate a proposed new facility.
- ☐ Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- ☐ Continue operating the facility after expiration of the current term of air general permit use.
- ☐ Continue operating the facility after a change of ownership.
- ☐ Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- ☐ All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): _____
- ☒ No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)
CEJ South, Inc.

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)
Family Funeral and Cremation

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)
Street Address: 7253 Plantation Road
City: Pensacola County: Escambia Zip Code:32504-6334

Facility Start-Up Date (Estimated start-up date of proposed **new** facility.) (N/A for existing facility)
July-August 2012

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: Christian Jensen, President
Owner/Authorized Representative Mailing Address Organization/Firm: Family Funeral and Cremation Street Address: PO Box 15306 City: Panama City County: Bay Zip Code: 32406
Owner/Authorized Representative Telephone Numbers Telephone: (850) 814-4476 Fax: ( ) Cell phone (optional) (850)814-4476 Email: cjensen@knology.net

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title:
Facility Contact Mailing Address Organization/Firm: Street Address: City: County: Zip Code:
Facility Contact Telephone Numbers Telephone: Fax: ( ) Cell phone (optional):

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.

Signature

Date 3/27/2012

Design Calculations

If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees F.

☒ Manufacturer's' design calculations attached. - See Attachment 1 for compliance test report

☐ Registration is not for proposed new human crematory unit(s).

Description of Facility

Below, or as an attachment to this form, provide a description of all crematory operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

Equipment Description

The "Classic" is a multi-chamber unit having an average 150 - 200 lbs/hr fired with natural gas. No serial number is available as the unit has not been constructed. The primary chamber burner is rated at 500,000 Btu/hr, and the secondary chamber burner is rated at 1,500,000 Btu/hr, for a total of 2,000,000 Btu/hr. Control of air pollution is achieved through the design of the "Classic" crematory, including its ability to operate the secondary chamber between 1600 - 1850 degrees Fahrenheit at a residence time in excess of 1.0 second. The design also includes fully automatic PLC based controls, independent fuel/air systems, preheated combustion air, secondary chamber temperature monitor an recorder, primary burner temperature interlock (prevents primary burner from firing prior to the secondary chamber reaching it's set point temperature), UV continuous scanning flame detectors on burners, and an opacity sensor which can temporarily suspends operation of the primary chamber burner. In attachment 2 we have include a copy of the crematory spec.

Emissions Summary

Emission Summary and Calculations – Air pollution control is demonstrated through identical source stack testing. (see Attachment 1). See Attachment 3 for tabular summary of emissions. Criteria pollutant emissions values, except CO and PM are based on emission factors from AP-42, Table 2.1-12. The emission for CO and PM are derived from results of the identical source stack test.

Retention Time

The retention time was measured on an identical unit at 1.75 seconds at 1800^0F.

Attachment 1
Compliance Test Report

Arlington Environmental Services, Inc.

Post Office Box 657 ~ Okeechobee, Florida 34973
605 SW Park Street, Suite 209 ~ Okeechobee, Florida 34974
Telephone (863) 467-0555 ~ Facsimile (863) 357-0810
www.arlingtonenvironmental.com

U.S. Cremation Equipment
598 South Northlake Boulevard, Suite 1016
Altamonte Springs, FL 32701

RE: FID 0112701 – Guiding Light Cremations, LLC
Emission Testing Report
Make: US Cremation Equipment
Model: Classic

To Whom It May Concern:

Emission testing for Particulate, Visible, Carbon Monoxide, and Hydrogen Chloride, EPA Methods 1-5, 9, 10, and 26A, was conducted on March 3 & 4, 2010 at the above referenced facility. Upon request of the manufacturer the results from Methods 1-5, 10, and 26A have been corrected to twelve percent (12%) Carbon Dioxide and fifty percent (50%) Excess Air. In addition the results were corrected to seven percent (7%) Oxygen. These results are presented in the attached Emissions Report.

Sincerely,

Noah A. Handley, P.E.
Vice President, Principal Engineer,
Arlington Environmental Services, Inc.

Source Test Report
for
Particulate, Visible, CO and HCl Emissions

EPA Methods 1-5, 9, 10 and 26A

Report 2985-S

March 03 and 04, 2010

prepared for

Guiding Light Cremations, LLC
Unit #2
Facility ID 0112701

Arlington Environmental Services, Inc.

Post Office Box 657 ~ Okeechobee, Florida 34973 ~ Telephone 863.467.0555

Table of Contents

1.0 Introduction

Guiding Light Cremations LLC operates a human crematory located at 2431 SW 56th Terrace in West Park, FL. On March 03 and 04, 2010, source tests for particulate, visible, carbon monoxide and HCl emissions (EPA Methods 1-5, 9, 10 and 26A) were conducted on Unit #2 exhaust stack servicing the Model: Classic Crematory, Manufactured by U.S. Cremations Equipment.

The tests were performed in order to comply with the Broward County Department of Planning and Environmental Protection, Air Quality Division, Chapter 27 Article IV, Air Quality, Section 27-179(c)(2). The results comply with Florida's Human Crematory Rule 62-296.401(5), FAC.

Courtney Pitters of the Broward County Division of Environmental Protection, Air Quality Division was present for a portion of the tests.

The retention time for this unit during the test was 1.75 seconds. The substantiating calculations are presented in Appendix D.

The results of this test verify compliance with the Code of Federal Regulations and Florida Department of Environmental Protection Human Crematory Rule 62-296.401(5), Florida Administrative Code.

2.0 Certification of Test Results

Facility Tested: Guiding Light Cremations LLC
2431 SW 56th Terrace
West Park, FL 33325

Report 2985-S

Type Process – Human Crematory

Abatement Device – Afterburner

March 03 and 04, 2010

Run Numbers 1, 2 and 3

Visible Emissions – 0.0%
Allowable Visible Emissions – 5% with up to 15% allowed in a one hour period

Particulate Emissions – 0.0159gr/dscf (corrected to 7% O_2)

Particulate Emissions – 0.0150 gr/dscf (corrected to 50% Excess Air)

Particulate Emissions – 0.0208 gr/dscf (corrected to 12% CO_2)
Allowable Particulate Emissions – 0.1 gr./dscf (corrected to 12% CO_2)

Carbon Monoxide Emissions – 0.86 ppm (corrected to 7% O_2)

Carbon Monoxide Emissions – 0.81 ppm (corrected to 50% Excess Air)
Allowable Carbon Monoxide Emissions – 500 ppm (corrected to 50% Excess Air)

Carbon Monoxide Emissions – 1.14 ppm (corrected to 12% CO_2)

HCl Emissions – 27.37 ppm (corrected to 7% O_2)

HCl Emissions – 25.99 ppm (corrected to 50% Excess Air)

HCl Emissions – 36.29 ppm (corrected to 12% CO_2)

All testing and analysis were performed in accordance with the Florida Department of Environmental Protection Human Crematory Rule 62-296.401(5), Florida Administrative Code.

I hereby certify that to my knowledge, all information and data submitted in this report is true and correct.

William D. Arlington

3.0 Allowable Emission Determination

The allowable emissions were determined in accordance with 62.296.401(5) F.A.C. Substantiating data and calculations are presented in the Appendix D.

4.0 Cyclonic Flow Determination

Due to the configuration of the system, cyclonic flow was considered to be non-existent at the sampling site.

5.0 Summary of Results
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

	Run 1	Run 2	Run 3	Average
Date	3/3/2010	3/4/2010	3/4/2010	
Start Time	16:20	9:30	11:00	
Stop Time	17:23	10:33	12:05	
Process Rate (lbs.)	175	180	——	178
Visible Emission Rate (%) (highest six minute average)				0.00
Allowable Visible Emission Rate (%) (with up to 20% for 3 min. per hour)				5
Particulate Emission Rate (gr./dscf @ 7% O_2)	0.0188	0.0099	0.0189	0.0159
Particulate Emission Rate (gr./dscf @ 50% Excess Air)	0.0178	0.0094	0.0179	0.0150
Particulate Emission Rate (gr./dscf @ 12% CO_2)	0.0238	0.0136	0.0251	0.0208
Allowable Particulate Emission Rate (gr./dscf @12% CO_2)	0.10	0.10	0.10	0.10
Carbon Monoxide Emission Rate (ppm @7% O_2)	0.79	1.05	0.74	0.86
Carbon Monoxide Emissions (PPM) @ 50% Excess Air	0.75	0.99	0.70	0.81
Allowable Carbon Monoxide Emissions (PPM) @ 50% Excess Air	500	500	500	500
Carbon Monoxide Emissions (PPM) @ 12% CO2	1.00	1.43	0.98	1.14
Hydrogen Chloride Emission Rate(PPM)@7% O2	25.26	24.88	31.96	27.37
Hydrogen Chloride Emission Rate (PPM) @ 50% Excess Air	24.09	23.52	30.36	25.99
Hydrogen Chloride Emission Rate (PPM) @ 12% CO2	32.18	34.04	42.64	36.29

6.0 Visible Emission Results
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

Emission Point	Allowable Emission Rate (highest six minute average)	Emission Rate (highest six minute average)	Average Opacity
Exhaust Stack	5	0.00	0.00

7.0 Particulate Emission Results
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

	Run 1	Run 2	Run 3
Area (square feet)	3.08	3.08	3.08
Stack Pressure (inches Hg)	29.88	30.07	30.07
Meter Pressure (inches Hg)	30.06	30.26	30.29
Sample Volume (Std. Cu. Ft.)	52.965	54.952	57.861
Water Vapor (Cubic Feet)	5.52	5.85	6.03
Sample Moisture (percent)	9.44	9.62	9.43
Saturation Moisture (percent)	100.00	100.00	100.00
Molecular Weight (lbs/lb Mole wet)	28.29	28.18	28.27
Velocity (fpm)	887	879	985
Volumetric Flow Rate (acfm)	2734	2710	3036
Volumetric Flow Rate (scfm)	891	933	963
Percent Carbon Dioxide (Measured)	5.1	4.5	5.0
Percent Oxygen (Measured)	13.4	13.8	13.2
Carbon Monoxide (PPM) (Measured)	0.42	0.53	0.41
Percent Excess Air (Calculated)	165.11	177.63	157.23
PM Concentration (gr/dscf)	0.0101	0.0051	0.0104
PM Concentration (gr/dscf) @7% O2	0.0188	0.0099	0.0189
PM Concentration (gr/dscf) @ 50% Excess Air	0.0178	0.0094	0.0179
PM Concentration (gr/dscf) @ 12% CO2	0.0238	0.0136	0.0251
Mass Emission Rate (lbs./hr.)	0.08	0.04	0.09
Percent Isokinetic	99.51	98.54	100.56

8.0 Carbon Monoxide Emission Results
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

	Run1	Run 2	Run 3	Average
Date	3/3/2010	3/4/2010	3/4/2010	
Start Time	16:20	9:30	11:00	
Stop Time	17:23	10:33	12:05	
Percent Carbon Dioxide (Measured)	5.1	4.5	5.0	
Percent Oxygen (Measured)	13.4	13.8	13.2	
Carbon Monoxide (PPM) (Measured)	0.42	0.53	0.41	
Percent Excess Air (Calculated)	165.11	177.63	157.23	166.66
Carbon Monoxide Emissions (PPM @ 7% O_2)	0.79	1.05	0.74	0.86
Carbon Monoxide Emissions (PPM) @ 50% Excess Air	0.75	0.99	0.70	0.81
Carbon Monoxide Emissions (PPM) @ 12% CO2	1.00	1.43	0.98	1.14

9.0 HCl Emission Results
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

	Run 1	Run 2	Run 3	Average
Date	3/3/2010	3/4/2010	3/4/2010	
Sample Volume (Std. Cu. Ft.)	52.965	54.952	57.861	
Percent Carbon Dioxide (Measured)	5.1	4.5	5.0	
Percent Oxygen (Measured)	13.4	13.8	13.2	
Carbon Monoxide (PPM) (Measured)	0.42	0.53	0.41	
Percent Excess Air (Calculated)	165.11	177.63	157.23	166.66
Volume of Solution (mls)	400	400	400	
HCl (ug collected)	31,000	30,000	44,000	35,000
HCl (ug/DSCF)	585.29	545.93	760.45	630.56
HCl PPM (volume)	13.63	12.71	17.70	14.68
HCl PPM (volume) @ 7% O2	25.26	24.88	31.96	27.37
HCL PPM (volume) @ 50% Excess Air	24.09	23.52	30.36	25.99
HCl PPM (volume) @ 12% CO2	32.18	34.04	42.64	36.29

10.0 Overview of Field and Analytical Procedures

10.1 EPA Method 1 - Sample and Velocity Traverses for Stationary Sources

Principle - To aid in the representative measurement of pollutant emissions and/or total volumetric flow rate from a stationary source, a measurement site where the effluent stream is flowing in a known direction is selected and the cross-section of the stack is divided into a number of equal areas. A traverse point is then located within each of these equal areas. See Sampling Point Determination.

Applicability - This method is applicable to flowing gas streams in ducts, stacks and flues. This method cannot be used when: 1) flow is cyclonic or swirling 2) a stack is smaller than about 12 inches in diameter, or 0.071 cross-sectional area or 3) the measurement site is less than two stack or duct diameters downstream or less than a half diameters upstream from a flow disturbance. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

10.2 EPA Method 2 - Determination of Stack Gas Velocity and Volumetric Flow Rate

Principle - Type S Pitot Tube - The average gas velocity in a stack is determined from the gas density and from measurement of the average velocity head with a Type S pitot tube.

Applicability - This method is applicable for measurement of the average velocity of a gas stream and for quantifying gas flow.

This procedure is not applicable at measurement sites which fail to meet the criteria of Method 1. This method cannot be used for direct measurement in cyclonic or swirling gas streams. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

10.3 Method 3 - Gas Analysis for the EPA Determination of Dry Molecular Weight

Principle - A gas sample is extracted from a stack by one of the following methods 1) Single-point grab sampling 2) single-point, integrated sampling or 3) multi-point, integrated sampling, the gas sample is analyzed for percent CO_2, percent O_2, and if necessary for CO. For dry molecular weight determination, either an Orsat or a Fyrite analyzer may be used for the analysis.

Applicability - This method is applicable for determining carbon dioxide and oxygen concentrations and dry molecular weight of a sample from a gas stream of a fossil fuel combustion process. The method may also be applicable to other processes where it has been determined that compounds other than CO_2, O_2, CO, and nitrogen are not present in concentrations sufficient to affect the results. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

10.4 EPA Method 4 - Determination of Moisture Content in Stack Gases

Principle – A gas sample is extracted at a constant rate from the source; moisture is removed from the sample stream and determined either volumetrically or gravimetrically.

Applicability - This method is applicable for determining the moisture content of stack gas. There are two procedures given to determine the moisture. The procedure for the reference method to determine the moisture content was used to calculate the emission data. The reference method was conducted simultaneously with the pollutant emission measurement run, calculation of percent isokinetic, pollutant emission rate, etc. for the run is based upon the results of the reference method or its equivalent. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

10.5 EPA Method 5 - Determination of Particulate Emissions from Stationary Sources

Principle - Particulate matter is withdrawn isokinetically from the source and collected on a glass fiber filter maintained at a temperature in the range of 120 - 248° For such other temperature as specified by an applicable subpart of the standards or approved by the Administrator, U.S. Environmental Protection Agency, for a particular application.

The particulate mass which includes any material that condenses at or above the filtration temperature, is determined gravimetrically after removal of uncombined water.

Applicability – This method is applicable for the determination of particulate emissions from stationary sources. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

Diagram of EPA Method 5 Sampling Train

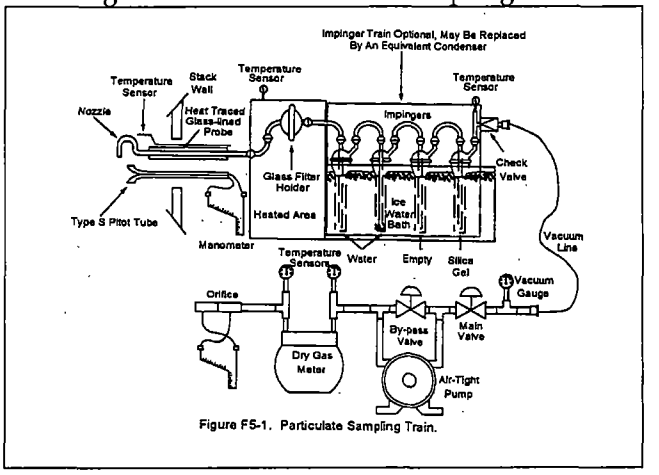


Figure FS-1. Particulate Sampling Train.

10.6 EPA Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources

Principle - The opacity of emissions from stationary sources is determined visually by a qualified observer.

Applicability - This method is applicable for the determination of the opacity of emissions from stationary sources pursuant to 60.11(b) and for qualifying observers for visually determining the opacity of emissions.

10.7 EPA Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources

Principle - An integrated or continuous gas sample is extracted from a sampling point and analyzed for carbon monoxide (CO) content using a Luft-type nondispersive infrared analyzer or equivalent.

Applicability - This method is applicable for the determination of carbon monoxide emissions from stationary sources only when specified by the test procedures for determining compliance with new source performance standards. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

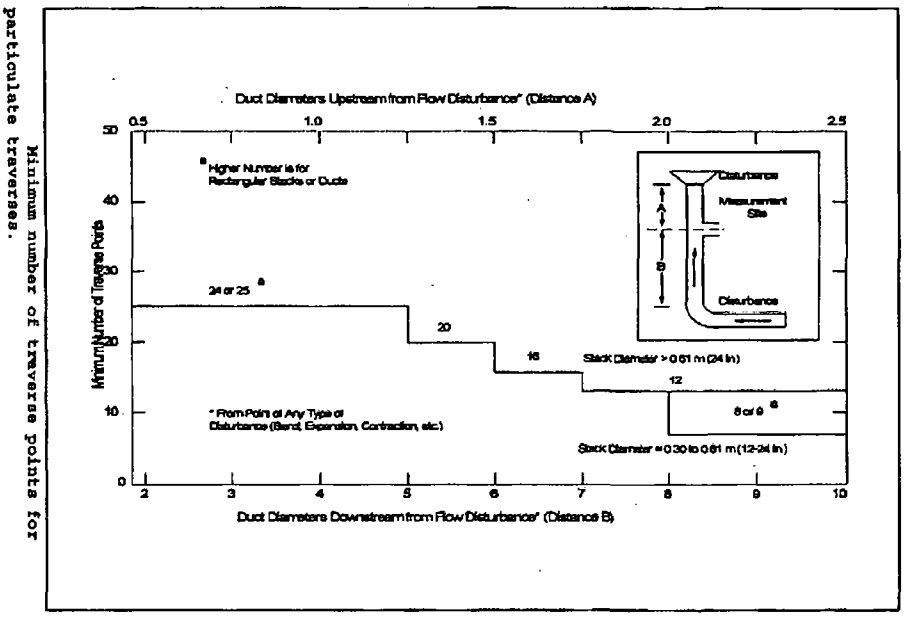
10.8 EPA Method 26A - Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources - Isokinetic Method

Principle - Gaseous and particulate pollutants are withdrawn isokinetically from the source and collected in an optional cyclone, on a filter, and in absorbing solutions. The cyclone collects any liquid droplets and is not necessary if the source emissions do not contain them; however, it is preferable to include the cyclone in the sampling train to protect the filter from any liquid present. The filter collects particulate matter including halide salts but is not routinely recovered or analyzed. Acidic and alkaline absorbing solutions collect the gaseous hydrogen halides and halogens respectively. Following sampling of emissions containing liquid droplets, any halides/halogens dissolved in the liquid in the cyclone and on the filter are vaporized to gas and collected in the impingers by pulling conditioned ambient air through the sampling train The hydrogen halides are solubilized in the acidic solution and form cloride (cl), bromide (Br) and Flouride (F) ions. The halogens have a very low solubility in the acidic solution and pass through to the alkaline solution where they are hydrolyzed to form a proton (H^+), the halide ion, and the hypohalous acid (HCl0 or HBr0). Sodium theosulfate is added to the alkaline solution to assure reaction with the hypohalous acid to form a second halide ion such that 2 halide ions are formed for each molecule of halogen gas. The halide ions in the separate solutions are measured by ion chromatography (IC). If desired, the particulate matter recovered from the filter and the probe is analyzed following the procedures in Method 5.

Note: During this test we were sampling for HCl so the fifth and sixth impingers, intended for the collection of halogen samples were not used.

11.0 Minimum Number of Sampling Points

Minimum Number of Sampling Points
Per Particulate Traverse



Circular Stacks

The number of sampling points is selected according to the above diagram, with the number of points equaling the next higher multiple of four.

Rectangular Stacks

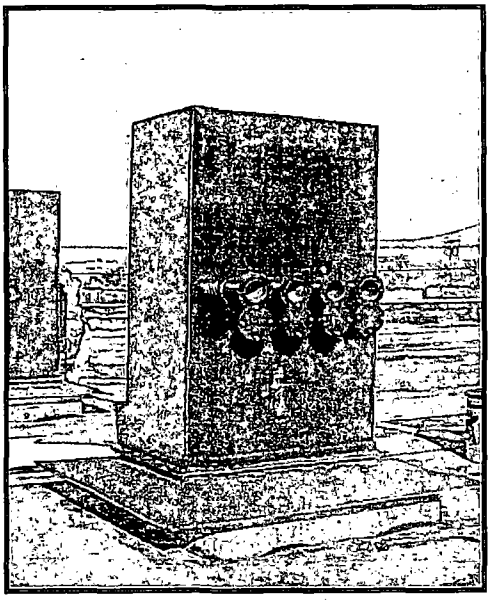
The number of sampling points is determined using the matrix below.

Number of Traverse Points	Subarea Layout Matrix
9	3 x 3
12	4 x 3
16	4 x 4
20	5 x 4
25	5 x 5
30	6 x5
36	6 x 6
42	7 x 6
49	7 x 7

11.1 Sampling Point Determination
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

Stack Configuration	Rectangular
Side 1 - with ports (inches)	24
Side 2 - (inches)	18.5
Equivalent Diameter	20.89
Distance A - Ports to Downstream Disturbance (inches)	24
Distance A - Ports to Downstream Disturbance (diameters)	1.15
Distance B - Ports to Upstream Disturbance (inches)	48
Distance B - Ports to Upstream Disturbance (diameters)	2.30
Number of Test Ports	6
Number of Sampling points per Traverse	5
Number of Points Sampled	25

Photograph of Stack



Traverse Point Location

Traverse Point No.	Inches to Stack Wall
1	1.9
2	5.6
3	9.3
4	13.0
5	16.7

12.0 Summary of Field and Laboratory Data
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

	Run 1	Run 2	Run 3
Date	3/3/2010	3/4/2010	3/4/2010
Start Time	16:20	9:30	11:00
Stop Time	17:23	10:33	12:05
CP	0.84	0.84	0.84
Y	0.9947	0.9947	0.9947
^Ha (inches H2O)	1.7304	1.7304	1.7304
Diameter of Nozzle (inches)	0.7503	0.7503	0.7503
Stack Diameter or Equivlant (inches)	20.89	20.89	20.89
Static Pressure (inches H2O)	-0.02	-0.02	-0.02
Barometric Pressure (inches Hg)	29.88	30.07	30.07
Test Time (minutes)	60	60	60
Meter Volume (cubic feet)	53.623	54.165	57.845
Square Root ^P (inches H2O)	0.156	0.159	0.171
Orifice Pressure ^H (inches H2O)	2.458	2.583	3.000
Average Meter Temperature (Deg. F)	74.0	63.4	71.4
Average Stack Temperature (Deg. F)	1004.4	931.5	1054.1
Particulate Sample Weight (grms)	0.0347	0.0181	0.0391
Water Collected (grms)	117.1	124.1	127.8
Percent CO2	5.1	4.5	5.0
Percent O2	13.4	13.8	13.2
Molecular Weight (lbs/lb Mole)	29.36	29.27	29.33
Nozzle Area (square feet)	0.00307	0.00307	0.00307

Attachment A - Field Data

Arlington Environmental Services, Inc.

Particulate Field Data

Plant	Guiding Light Cremations, LLC	Y_{qa}	0.9871
Report	2985-S-1	^Ha	1.7304
Date	03/03/10	Dn	0.7503
Operator	WA	Diameter (in.)	24 X 18.5
Time	16:20 - 17:23	Traverses X Points	4 X 6
K Factor	100.0	Static Pressure	-0.015
Assumed Moisture %	12	Barometric Pressure (in. Hg)	29.88
Dry Gas Meter No.	1	Test Time (min.)	60
Nozzle ID No.	#24	Metered Volume	53.623
Wet Bulb Temperature	NA	Avg. Sq Rt ^P	0.156
Post Leak Check	.004 cfm @ 20" Hg	Avg. ^H	2.458
Cp Factor	0.84	Avg. Meter Temp.	74.0
Y	0.9947	Avg. Stack Temp.	1004.4

Traverse Point Number	Sampling Time (min.)	DG METER (cu.ft.) 518.024	Velocity Head (^P) in. H20	Pressure Orifice Meter (^H) in. H20	Meter Temperature (F)	Pump Vacuum (in. Hg.)	Impinger Temperature (F)	Filter Temperature (F)	Stack Temperature (F)
1	2.5	520.21	0.020	2.00	71	4.5	63	234	1075
2	2.5	522.23	0.025	2.50	71	5.0	52	239	1083
3	2.5	524.34	0.025	2.50	70	5.5	52	237	1090
4	2.5	526.58	0.025	2.50	71	5.5	53	245	1069
5	2.5	528.96	0.025	2.50	71	5.5	54	245	979
6	2.5	531.43	0.025	2.50	71	5.5	53	247	1015
1	2.5	533.52	0.020	2.00	72	5.0	56	247	976
2	2.5	535.52	0.020	2.00	72	5.0	53	251	1036
3	2.5	537.56	0.025	2.50	72	6.0	53	241	1024
4	2.5	540.47	0.030	3.00	73	7.0	54	256	1024
5	2.5	542.64	0.030	3.00	74	7.0	54	258	1017
6	2.5	545.12	0.030	3.00	75	7.0	55	232	1011
1	2.5	547.22	0.020	2.00	75	5.5	57	232	1004
2	2.5	549.65	0.020	2.00	75	5.5	55	242	987
3	2.5	551.54	0.025	2.50	75	6.0	57	249	984
4	2.5	553.82	0.025	2.50	76	6.0	56	244	971
5	2.5	556.31	0.030	3.00	76	7.0	56	253	963
6	2.5	558.78	0.030	3.00	76	7.0	56	246	952
1	2.5	561.11	0.020	2.00	76	6.0	58	244	964
2	2.5	563.03	0.020	2.00	77	6.0	55	245	1011
3	2.5	565.76	0.020	2.00	77	6.0	55	246	1012
4	2.5	567.21	0.025	2.50	77	7.0	56	243	972
5	2.5	569.42	0.025	2.50	77	7.0	56	248	958
6	2.5	571.647	0.030	3.00	77	7.5	56	253	928

Arlington Environmental Services, Inc.

Particulate Field Data

Plant	Guiding Light Cremations, LLC	Y_{qa}	0.9884
Report	2985-S-2	^Ha	1.7304
Date	03/04/10	Dn	0.7503
Operator	WA	Diameter (in.)	24 X 18.5
Time	9:30 - 10:33	Traverses X Points	4 X 6
K Factor	100.0	Static Pressure	-0.015
Assumed Moisture %	10	Barometric Pressure (in. Hg)	30.07
Dry Gas Meter No.	1	Test Time (min.)	60
Nozzle ID No.	#24	Metered Volume	54.165
Wet Bulb Temperature	NA	Avg. Sq Rt ^P	0.159
Post Leak Check	.008 cfm @ 20 " Hg	Avg. ^H	2.583
Cp Factor	0.84	Avg. Meter Temp.	63.4
Y	0.9947	Avg. Stack Temp.	931.5

Traverse Point Number	Sampling Time (min.)	DG METER (cu.ft.) 572.759	Velocity Head (^P) in. H20	Pressure Orifice Meter (^H) in. H20	Meter Temperature (F)	Pump Vacuum (in. Hg.)	Impinger Temperature (F)	Filter Temperature (F)	Stack Temperature (F)
1	2.5	574.24	0.010	1.00	58	3.5	61	245	800
2	2.5	576.21	0.015	1.50	58	5.0	54	242	881
3	2.5	577.91	0.020	2.00	57	6.0	52	245	866
4	2.5	579.98	0.020	2.00	57	6.5	51	247	847
5	2.5	582.01	0.020	2.00	58	7.0	51	249	821
6	2.5	584.31	0.020	2.00	58	7.0	51	246	794
1	2.5	586.31	0.020	2.00	59	7.0	51	248	838
2	2.5	588.28	0.020	2.00	60	7.0	52	249	891
3	2.5	590.68	0.025	2.50	61	8.0	52	250	886
4	2.5	592.77	0.025	2.50	62	8.0	53	244	873
5	2.5	595.24	0.030	3.00	62	9.0	53	247	848
6	2.5	597.52	0.025	2.50	63	8.5	54	247	833
1	2.5	600.02	0.025	2.50	64	9.0	56	250	928
2	2.5	602.01	0.025	2.50	65	9.0	54	243	986
3	2.5	604.31	0.030	3.00	65	9.0	54	244	985
4	2.5	606.91	0.035	3.50	66	10.5	55	255	979
5	2.5	609.88	0.035	3.50	67	10.5	55	246	969
6	2.5	612.21	0.035	3.50	67	10.5	55	243	968
1	2.5	614.46	0.025	2.50	68	9.0	57	248	1044
2	2.5	617.45	0.030	3.00	68	10.5	56	249	1056
3	2.5	619.48	0.035	3.50	69	12.0	57	246	1060
4	2.5	622.34	0.035	3.50	69	12.0	57	248	1064
5	2.5	624.56	0.035	3.50	70	12.0	57	251	1065
6	2.5	626.924	0.025	2.50	70	10.5	57	252	1073

Arlington Environmental Services, Inc.

Particulate Field Data

Plant	Guiding Light Cremations, LLC	Y_{qa}	1.0045
Report	2985-S-3	^Ha	1.7304
Date	03/04/10	Dn	0.7503
Operator	WA	Diameter (in.)	24 X 18.5
Time	11:00 - 12:05	Traverses X Points	4 X 6
K Factor	100.0	Static Pressure	-0.015
Assumed Moisture %	8	Barometric Pressure (in. Hg)	30.07
Dry Gas Meter No.	1	Test Time (min.)	60
Nozzle ID No.	#24	Metered Volume	57.845
Wet Bulb Temperature	NA	Avg. Sq Rt ^P	0.171
Post Leak Check	.004 cfm @ 20" Hg	Avg. ^H	3.000
Cp Factor	0.84	Avg. Meter Temp.	71.4
Y	0.9947	Avg. Stack Temp.	1054.1

Traverse Point Number	Sampling Time (min.)	DG METER (cu.ft.) 627.279	Velocity Head (^P) in. H20	Pressure Orifice Meter (^H) in. H20	Meter Temperature (F)	Pump Vacuum (in. Hg.)	Impinger Temperature (F)	Filter Temperature (F)	Stack Temperature (F)
1	2.5	630.02	0.045	4.50	68	8.5	65	227	1056
2	2.5	632.64	0.045	4.50	68	8.5	54	235	1188
3	2.5	635.76	0.050	5.00	68	10.5	56	247	1212
4	2.5	639.12	0.050	5.00	68	11.0	57	250	1222
5	2.5	641.87	0.035	3.50	68	11.0	59	236	1164
6	2.5	644.20	0.030	3.00	69	10.0	59	248	1091
1	2.5	646.66	0.025	2.50	70	7.0	60	247	1093
2	2.5	649.11	0.030	3.00	70	8.0	58	250	1101
3	2.5	651.33	0.025	2.50	70	8.0	58	249	1086
4	2.5	653.53	0.030	3.00	71	9.0	58	248	1088
5	2.5	656.76	0.035	3.50	71	9.5	58	252	1016
6	2.5	658.94	0.035	3.50	71	9.5	58	242	1013
1	2.5	661.05	0.020	2.00	72	7.0	60	243	1018
2	2.5	663.27	0.025	2.50	72	9.5	59	241	1045
3	2.5	665.30	0.020	2.00	72	8.5	58	249	1038
4	2.5	667.71	0.030	3.00	73	9.5	58	245	1022
5	2.5	670.28	0.030	3.00	73	9.5	58	247	1004
6	2.5	672.48	0.030	3.00	73	10.0	58	247	989
1	2.5	674.18	0.015	1.50	74	7.0	59	246	968
2	2.5	676.26	0.020	2.00	74	8.5	59	238	1015
3	2.5	678.14	0.020	2.00	74	9.0	59	248	1006
4	2.5	680.41	0.025	2.50	74	9.5	59	243	977
5	2.5	682.68	0.025	2.50	75	10	59	244	939
6	2.5	685.124	0.025	2.50	75	75	60	240	947

Arlington Environmental Services, Inc.

(863) 467-0555

VISIBLE EMISSION TEST

Method Used (Circle One): Method 9 | 203A | 203B | Report # 2985-S

Company Name: Everglades Crematorium

Facility Name | AIRS 011/2701

Street Address: 2431 SW 56 Terrace

City: West Park FL | Zip 33023

Phone No. (954) 381-8888

Process: Human Crematory | Unit # 2 | Operating Mode ~1801bs

Control Equipment: After burner | Operating Mode ~1625°F

Describe Emission Point: Rectangular Stack

Ht of Emis.Point: ~20' | Ht Rel to Observer: ~15'

Distance to Emis. Pt.: ~800' | Direction to Emis. Pt (Degrees): ~330°

Vertical Angle to Obs.: <18° | Direction to Obs. Pt. (Degrees): ~330°

Distance and Direction to Obs. Pt from Emission Pt: ~1' above

Describe Emissions: None

Emission Color: Clear | Water Droplet Plume: Attached ___ Detached ___ None X

Describe Plume Background: SKY

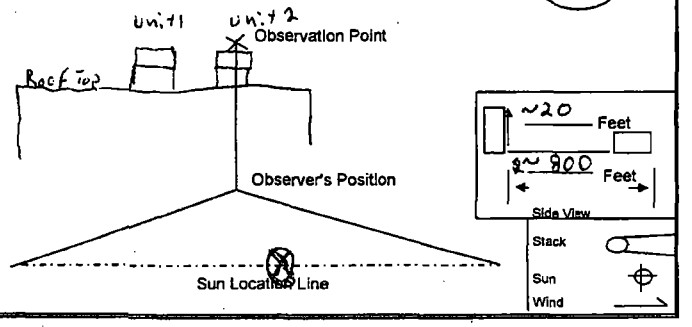
Background Color: Blue & White | Sky Conditions: ~~Clear~~ Scattered

Wind Speed: ~12-15 MPH | Wind Direction: NW

Ambient Temp.: ~58°f | Wet Bulb Temp. | % RH

Source Layout Sketch

Draw North Arrow: ☐ IN ☐ MN



Latitude	Longitude	Declination

Comments:

Observation Date: 3-4-10 | Start Time: 0930 | Stop Time: 1030

Sec \ Min	0	15	30	45	Sec \ Min	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

Number of Readings Above ___ % were | Average Opacity for Highest 6 Min Period: 0

Range of opacity Readings: Min 0 Max 0 | Average Opacity for 2nd Highest 6 Min Period: 0

Observers Name (Print): Steve Webb

Observers Signature: Stephen C. Webb | Date: 3-4-10

Organization: Arlington Environmental Services, Inc.

Certified By: Whitlow Enterprises | Date: 1/15/10

Whitlow Enterprises, LLC

www.smokeschool.net

Certifies that

Stephen Webb of Coastal Air Consulting

Has passed the certification test required by EPA Method 9

40 CFR 60 Appendix A and is qualified as a visible emissions evaluator.

Certification Date: 1/15/2010 Location: Tampa/Mulberry, FL

George Whitlow

President

TMFL011510-32

Attachment B - Laboratory Data

Particulate Laboratory Data
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

Run 1

Filter Number	1484	
	Final Weight	0.3891 grams
	Tare Weight	0.3713 grams
	Difference	0.0178 grams
Beaker Number	1C	
	Final Weight	114.0708 grams
	Tare Weight	114.0533 grams
	Difference	0.0175 grams
Filter Blank Number	1483	
	Final Weight	0.3700 grams
	Tare Weight	0.3699 grams
	Difference	0.0001 grams
Wash Down Blank		
	Volume of Rinse	70 mls
	Solution of Residue	0.00000784 grams/mls
	Total Residue	0.0005488 grams/mls

Total Particulate Weight **0.0347 grams**

Water Collected

Final Impinger Water	309 MLS
Initial Impinger Water	200 MLS
Final Silica Weight	208.3 GRAMS
Silica Tare Weight	200.0 GRAMS

Total Water Collected **117.1 GRAMS**

Analyst _____

Particulate Laboratory Data
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

Run 2

Filter Number	1485	
	Final Weight	0.3827 grams
	Tare Weight	0.3704 grams
	Difference	0.0123 grams
Beaker Number	2C	
	Final Weight	117.5130 grams
	Tare Weight	117.5064 grams
	Difference	0.0066 grams
Filter Blank Number	1483	
	Final Weight	0.3700 grams
	Tare Weight	0.3699 grams
	Difference	0.0001 grams
Wash Down Blank		
	Volume of Rinse	95 mls
	Solution Residue	0.00000784 grams/ml
	Total Residue	0.0007448 grams/ml

Total Particulate Weight **0.0181 grams**

Water Collected

Final Impinger Water	315 MLS
Initial Impinger Water	200 MLS
Final Silica Weight	209.3 GRAMS
Silica Tare Weight	200.0 GRAMS

Total Water Collected **124.1 grams**

Analyst _____

Particulate Laboratory Data
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

Run 3

Filter Number	1486	
	Final Weight	0.4004 grams
	Tare Weight	0.3677 grams
	Difference	0.0327 grams
Beaker Number	3C	
	Final Weight	114.4563 grams
	Tare Weight	114.4492 grams
	Difference	0.0071 grams
Filter Blank Number	1483	
	Final Weight	0.3700 grams
	Tare Weight	0.3699 grams
	Difference	0.0001 grams
Wash Down Blank		
	Volume of Rinse	75 mls.
	Solution Residue	0.00000784 grams/ml.
	Total Residue	0.000588 grams

Total Particulate Weight **0.0391 grams**

Water Collected

Final Impinger Water	317 mls.
Initial Impinger Water	200 mls.
Final Silica Weight	211.0 grams
Silica Tare Weight	200.0 grams

Total Water Collected **127.8 grams**

Analyst _____

Attention: William D. Arlington
Arlington Environmental Services Inc
605 Park Street, Suite 209
Okeechobee, FL
USA 34974

Report Date: 2010/03/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B032474
Received: 2010/03/18, 23:30

Sample Matrix: Impinger Solution
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Hydrogen Halides in H2SO4 Imp. (1)	8	2010/03/26	2010/03/26	BRL SOP-00108	EPA Method 26A
Volume of Sulfuric Acid Impinger	8	N/A	2010/03/26		

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed in Maxxam Mississauga under Maxxam Burlington SCC Accreditation

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

LINA BARRETO, Project Manager Assistant
Email: Lina.Barreto@maxxamanalytics.com
Phone# (905) 817-5700

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Arlington Environmental Services Inc

Maxxam Job #: B032474
Report Date: 2010/03/30

RESULTS OF ANALYSES OF IMPINGER SOLUTION

Maxxam ID		FJ1059	FJ1060		FJ1061	FJ1062	FJ1065		FJ1066		
Sampling Date		2010/03/15	2010/03/02		2010/03/04	2010/03/04	2010/03/04		2010/03/11		
	Units	**BLANK M26A-H2SO4**	**2983-S-1-HCL 3/02**	**RDL**	**2985-S-1-HCL 3/04**	**2985-S-2-HCL 3/04**	**2985-S-3-HCL 3/04**	**RDL**	**2996-S-1-HCL 3/11**	**RDL**	**QC Batch**
Volume	ml	400	400	1	400	400	400	1	400	1	2110433
Hydrochloric Acid	ug	<200	3700	200	31000	30000	44000	400	8300	200	2110447

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		FJ1067	FJ1068		
Sampling Date		2010/03/11	2010/03/11		
	Units	**2996-S-2-HCL 3/11**	**2996-S-3-HCL 3/11**	**RDL**	**QC Batch**
Volume	ml	400	400	1	2110433
Hydrochloric Acid	ug	9800	10000	200	2110447

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Arlington Environmental Services Inc

Maxxam Job #: B032474
Report Date: 2010/03/30

Test Summary

Maxxam ID FJ1059 **Collected** 2010/03/15
Sample ID BLANK M26A-H2SO4 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

Maxxam ID FJ1060 **Collected** 2010/03/02
Sample ID 2983-S-1-HCL 3/02 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

Maxxam ID FJ1060 Dup **Collected** 2010/03/02
Sample ID 2983-S-1-HCL 3/02 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S

Maxxam ID FJ1061 **Collected** 2010/03/04
Sample ID 2985-S-1-HCL 3/04 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

Maxxam ID FJ1062 **Collected** 2010/03/04
Sample ID 2985-S-2-HCL 3/04 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

Maxxam ID FJ1065 **Collected** 2010/03/04
Sample ID 2985-S-3-HCL 3/04 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

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Arlington Environmental Services Inc

Maxxam Job #: B032474
Report Date: 2010/03/30

Test Summary

Maxxam ID FJ1066 **Collected** 2010/03/11
Sample ID 2996-S-1-HCL 3/11 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

Maxxam ID FJ1067 **Collected** 2010/03/11
Sample ID 2996-S-2-HCL 3/11 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

Maxxam ID FJ1068 **Collected** 2010/03/11
Sample ID 2996-S-3-HCL 3/11 **Shipped**
Matrix Impinger Solution **Received** 2010/03/18

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Halides in H2SO4 Imp.	IC/SPEC	2110447	2010/03/26	2010/03/26	A_S
Volume of Sulfuric Acid Impinger		2110433	N/A	2010/03/26	A_S

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Arlington Environmental Services Inc

Maxxam Job #: B032474
Report Date: 2010/03/30

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Arlington Environmental Services Inc
Attention: William D. Arlington
Client Project #:
P.O. #:
Project name:

Quality Assurance Report

Maxxam Job Number: GB032474

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2110447 A_S	Matrix Spike (FJ1060)	Hydrochloric Acid	2010/03/26		94	%	80 - 120
	Spiked Blank	Hydrochloric Acid	2010/03/26		101	%	90 - 110
	Method Blank	Hydrochloric Acid	2010/03/26	<200		ug	
	RPD - Sample/Sample Dup	Hydrochloric Acid	2010/03/26	1.3		%	20

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

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Validation Signature Page

Maxxam Job #: B032474

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

FRANK MO, B.Sc., Inorganic Lab. Manager

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Attachment C - Process Data

Emission Control Device and Process Data

Company Guiding Light Cremations

Installation Unit #2

Date 3-4-10 Report No. 2985-S

Type of Installation Crematory

Type of Material Processed Human Remains

Type(s) of Fuel Used Natural Gas

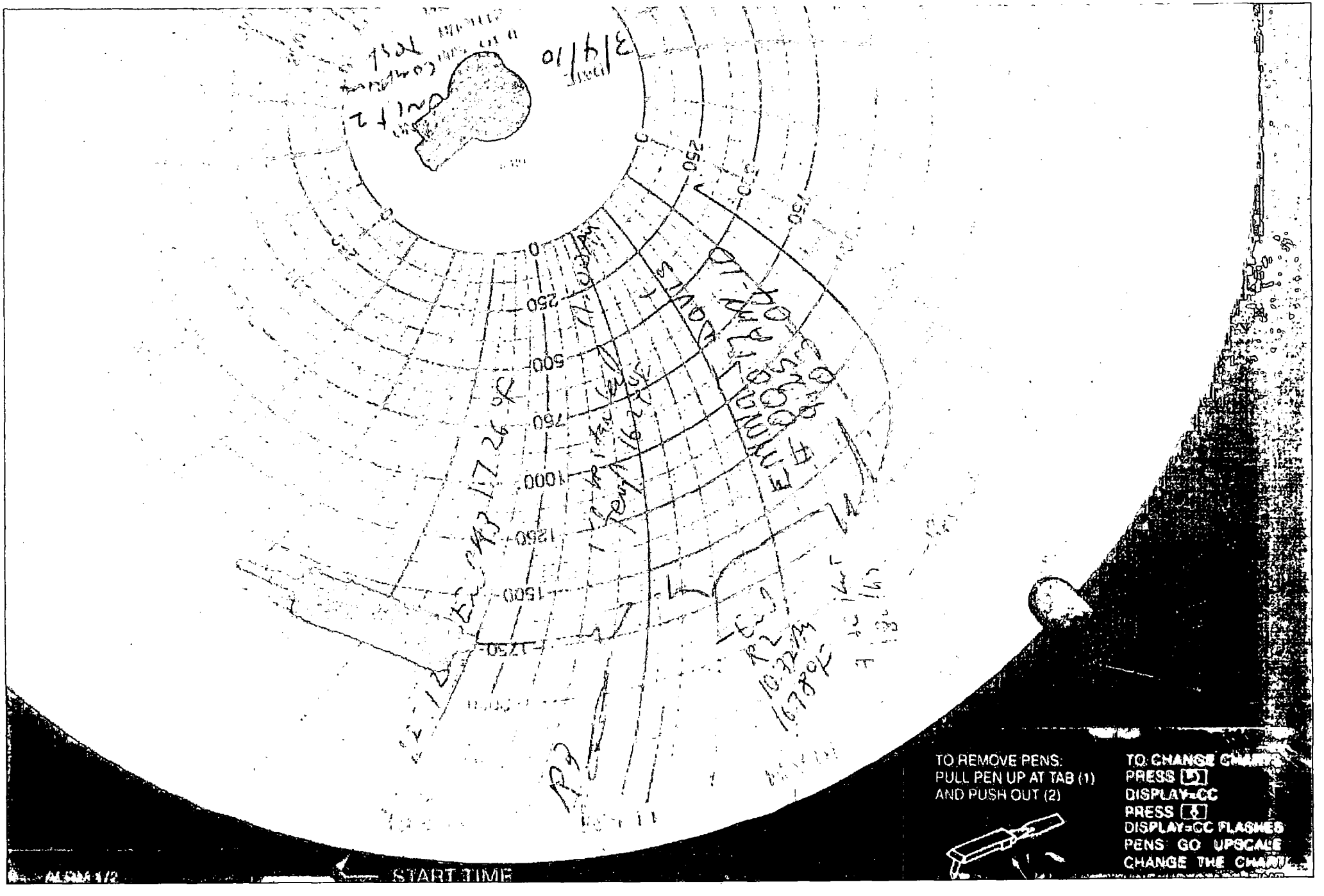
Type of Pollution Control System Afterburner

General Condition of Control Equipment Normal

Run No.	1 3-3-10	2 3-4-10	3 3-4-10
Start Time	16:20	9:30	11:00
Stop Time	17:23	10:33	12:05
Fuel Used	NG	NG	NG
Scrubber Water Flow Rate (GPM)	NA	NA	NA
Pressure Drop (in. H2O)	NA	NA	NA
Total Operating temp °F	1680	1630	1720
Process Rate (lbs/Hr.)	175	— 180 —	
Percent Recycle	NA	NA	NA

Signature _____ Title _____

Name _____
(Please Print)


TO REMOVE PENS:
PULL PEN UP AT TAB (1)
AND PUSH OUT (2)
TO CHANGE CHART
PRESS
DISPLAY=CC
PRESS
DISPLAY=CC FLASHES
PENS GO UPSCALE
CHANGE THE CHART
START TIME

Attachment D - Calculations for Run 1

CALCULATIONS FOR RUN 1
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

STACK AREA

(SIDE 1) X (SIDE 2) / 144

24.00 X 18.50 / 144

3.08 SQ.FT.

STACK PRESSURE

BAROMETRIC PRESSURE + (STATIC PRESSURE/ 13.6)

29.88 + (-0.02 /13.6)

29.88 IN.HG

METER PRESSURE

BAROMETRIC PRESSURE + (ORIFICE PRESURE/13.6)

29.88 + (2.46 / 13.6)

30.06 IN.Hg

SAMPLE VOLUME

17.64 X (Y) X METER VOLUME X METER PRESSURE / (METER TEMP. + 460)

17.64 X 0.9947 X 53.623 X 30.06 / (74.0 + 460)

52.965 STD.CU.FT.

WATER VAPOR VOLUME

.04715 X WATER COLLECTED

0.04715 X 117.1

5.52 STD.CU.FT.

SAMPLE MOISTURE

100 X WATER VAPOR VOLUME / (WATER VAPOR VOLUME + SAMPLE VOLUME)

100 X 5.52 / (5.52 + 52.965)

9.44 %

SATURATION MOISTURE

100 X (VAPOR PRESSURE @ STACK TEMP. / STACK PRESSURE)

100 X (47,255.20 / 29.88)

100.00 %

STACK MOISTURE FRACTION

(THE LESSER OF SAMPLE MOISTURE OR SATURATION MOISTURE) / 100

0.094

DRY MOLECULAR WEIGHT OF STACK GAS

(.28 X (100-%N2)) + (.44 X %CO2) + (.32 X %O2)

(.28 X (100 - (5.14 + 13.43) + (.44) 5.1 + (.32) 13.43)

29.36

CALCULATIONS FOR RUN 1
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

MOLECULAR WEIGHT OF STACK GAS

MOLECULAR WEIGHT X (1 - MOISTURE) + (18 X MOISTURE)

29.36 X (1 - 0.094) + (18 X 0.094)

28.29

STACK VELOCITY

85.49 X CP X 60 X SQ.(^P) X SQ.(STACK TEMP + 460)/SQ.(STACK PRESSURE X MOLECULAR WT.)

85.49 X 0.840 X 60 X 0.156 X SQ.(1004.4 + 460) / SQR(29.88 X 28.29

887 FPM

VOLUMETRIC FLOW RATE (ACFM)

STACK AREA X STACK VELOCITY

3.08 X 887

2734 ACFM

VOLUMETRIC FLOW RATE (SCFM) DRY

17.64 X (ACFM) X STACK PRESSURE X (1-MOISTURE) / (STACK TEMP. + 460)

17.64 X 2734 X 29.88 X (1 - 0.094) / (1004.4 + 460)

891 SCFM (DRY)

CONCENTRATION (gr/dscf)

Total Particulate Weight X 15.43 / Sample Volume

0.0347 X 15.43 / 52.96

0.0101

CONCENTRATION@7% O2 (gr/dscf)

Concentration X 13.9 / (20.9 - %o2)

0.0101 X 13.9 / (20.9 - 13.43)

0.0188

MASS EMISSION RATE (LBS./HR.)

CONCENTRATION X (SCFM- DRY) X 60 / 7000

0.0101 X 891 X 60 / 7000

0.08 LBS/HR

PERCENT ISOKINETIC

.0945 X (STACK TEMP. + 460) X SAMPLE VOLUME X 60

. (STACK PRES. X VELOCITY X NOZZLE AREA X TEST TIME X (1-MOISTURE))

$$\frac{0.0945 \times (1004.38 + 460) \times 52.96 \times 60}{29.88 \times 887 \times 0.00307 \times 60.00 \times (1 - 0.094)}$$

99.51 %

CALCULATIONS FOR RUN 1
Guiding Light Cremations, LLC
Unit #2
Report 2985-S

Note Emissions Calculation for Correcting Pollutant Emission to 7% O2, 50% Excess Air, and 12% CO2 are provided for HCl but are the same for the rest of the pollutants (PM and Carbon Monoxide)

PERCENT EXCESS AIR

$$\frac{100 \times (\%O_{2(MEASURED)} - 0.5 \times PPM_{CO} \div 10{,}000\%/PPM)}{0.264 \times (100 - (\%O_2 + \%CO_2 + PPM_{CO} \div 10{,}000\%/PPM) - (\%O_2 - 0.5 \times (PPM_{CO} \div 10{,}000\%/PPM))}$$

$$\frac{100 \text{ X } (13.4 - 0.5 \text{ X } (0.42 \div 10{,}000))}{0.264 \text{ X } (100 - (13.4 + 5.1 + (0.42 / 10{,}000)) - (13.4 - 0.5 \text{ X } 0.42 / 10{,}000)}$$

Percent Excess Air = **165.11%**

CONCENTRATION HCl (VOLUME)

PPM (volume @ 20 deg C) =HCl(ug/dscf) X 24040 / (28.32 X M X 10^3)

PPM =HCl(ug/dscf) X 24040 / (28.32 X 36.461 ZX 10^3)

PPM = 585.29 X 24.040 / (28.32 X 36.461 ZX 10^3)

HCl Concentration = **13.63 PPM**

EMISSIONS CORRECTED TO 7% O2

Pollutant Concentration X (%O2 (Air) - %O2 (Referenced)) / (%O2 (Air) - %O2 (Measured))

13.63 X (20.9 - 7) / (20.9 - 13.4

HCl @ 7% O2 = **25.26 PPM**

EMISSIONS CORRECTED TO 50% EXCESS AIR

$$\frac{PPM_{HCl} (100 + EXCESS\ AIR)}{150}$$

$$\frac{13.63 (100 + 165.11)}{150}$$

HCl @ 50% Excess Air = **24.09 PPM**

EMISSIONS CORRECTED TO 12% CO2

Pollutant Concentration X (%CO2 (Air) - %CO2 (Referenced)) / (%CO2 (Air) - %CO2 (Measured))

13.63 X (0.03 - 12) / (0.03 - 5.1)

HCl Concentration @ 12% CO2 = **32.18 PPM**

	RESIDENCE TIME CALCULATION				
	CORRECTION FOR QUENCHED AIR AT OUTLET				
PLANT:	Guiding Light				
SOURCE:	Unit #2				
LOCATION:					
DATE:					
STACK PRESSURE:	30.07				
CHARGE RATE:					
		SOURCE PARAMETERS			
	OUTLET STACK		**AMBIENT AIR**		**SECONDARY CHAMBER**
TEMPERATURE,F	1064		65		1624
AIR FLOW,ACFMD	2662				
AIR FLOW,ACFM	2826				
H2O FLOW,ACFM	164				
PRESSURE,PSI	14.77		14.77		14.77
AIR ENTHALPY,BTU/LB	375.5		125.4		528.0
H2O ENTHALPY,BTU/LB	709.8		231.2		1012.2
SCC VOLUME,CFT					71
HUMIDITY RATIO			0.02		
	EQUATIONS				
	1. MASS = PVM/RT		M = MOLECULAR WEIGHT		
			R = 1545 ft-lbf/lbm-mol-R		
	MASS (lbm/min) =	(psia)(ACFMD)(lbm/lbm-mol) x (144 sq.in/sq.ft)			
		(1545 ft-lbf/lbm-mol x R)(Temp. R)			
	2. HEAT LOSS FROM SCC = HEAT GAINED BY AMBIENT AIR				
	M(AIR,SCC) = M(AIR,STACK) - (M(AIR,AMB.)				
	M(H2O,SCC) = M(H2O,STACK) - M(H2O,AMB.)				
	OUTLET FLOWS				
	M(DRY AIR) =		69.66	lb/min	
	M(H2O) =		2.67	lb/min	
	M(TOTAL) =		72.33	lb/min	
	RESIDENCE TIME CALCULATION				

CORRECTION FOR QUENCHED AIR AT OUTLET				
SCC DRY AIR				
(M x ENTHALPY CHANGE)scc = (M x ENTHALPY CHANGE)amb.				
H(Mscc) =		152.5	BTU/lbm	
H(Mamb) =		250.1	BTU/lbm	
M(amb) =		0.610	x M(scc)	
M(scc) + M(amb) =		69.660	lb/min	
M(scc)AIR =		43.274	lb/min	
SCC H2O				
M(scc)H2O + M(amb)H2O = M(outlet)H2O				
M(amb.) H2O =		0.02	lb/lb dry air	
M(amb.) AIR =		26.39	lb/min	
M(amb.) H2O =		0.53	lb/min	
M(scc) H2O =		2.14	lb/min	
SCC VOLUMETRIC FLOW				
V = MRT/PM	@	1624	F	
		14.77	psi	
AIR:				
	V =	2261.3	ACFM	
H2O:				
	V =	179.9	ACFM	
TOTAL SCC:				
	V =	2441.2	ACFM	
SCC RESIDENCE TIME				
RESIDENCE TIME =		1.75	SECONDS	

Attachment E - Calibration Data

ANNUAL METER CALIBRATION — METER NO. 002047 — ORIFICE SET NO. JC40-73

DATE	9/20/2009	Y=	0.9947	MAX % VARIATION	1.8562%	PASS	
BAROMETRIC PRESSURE	29.98	^Ha=	1.7304	MAX % VARIATION	1.2487%	PASS	

CRITICAL ORIFICE DATA

ORIFICE SERIAL NO.	ORIFICE K' FACTOR	ACTUAL VACUUM	^H (IN H2O)	TIME (MIN.)	AMBIENT TEMP INITIAL	AMBIENT TEMP. FINAL	METER TEMP. INITIAL	METER TEMP. FINAL	METER READING INITIAL	METER READING FINAL	VM (CU.FT.)	VM CORRECTE	Vcr STD	Vcr NOMINAL	Y	VARIATION	^H (IN. H2O)	VARIATION
40	0.2435	24.0	0.31	10	83	83	82	83	719.500	722.767	3.2670	3.1872	3.1328	3.2166	0.9829	0.0015	1.7327	0.0037
40	0.2435	24.0	0.31	10	83	83	83	84	722.767	726.050	3.2830	3.1969	3.1328	3.2166	0.9799	-0.0015	1.7295	0.0005
40	0.2435	24.0	0.31	10	83	83	85	85	726.050	729.337	3.2870	3.1920	3.1328	3.2166	0.9814	0.0000	1.7247	-0.0042
AVERAGE															0.9814	0.0186	1.7290	0.0008
48	0.3557	22.5	0.66	10	84	84	86	86	730.400	735.138	4.7380	4.5966	4.5721	4.7031	0.9947	-0.0030	1.7208	0.0005
48	0.3557	22.5	0.66	10	84	84	86	87	735.138	739.858	4.7200	4.5749	4.5721	4.7031	0.9994	0.0017	1.7193	-0.0011
48	0.3557	22.0	0.66	10	85	85	87	87	739.858	744.580	4.7220	4.5727	4.5679	4.7074	0.9990	0.0013	1.7208	0.0005
AVERAGE															0.9977	0.0023	1.7203	0.0058
55	0.4616	19.5	1.15	10	86	86	88	89	745.400	751.583	6.1830	5.9783	5.9224	6.1145	0.9907	-0.0057	1.7788	0.0268
55	0.4616	18.0	1.15	10	87	87	90	90	751.583	757.678	6.0950	5.8771	5.9170	6.1201	1.0068	0.0105	1.7772	0.0252
55	0.4616	18.0	1.10	10	88	88	91	91	757.678	763.873	6.1950	5.9620	5.9116	6.1257	0.9916	-0.0048	1.7000	-0.0520
AVERAGE															0.9963	0.0037	1.7520	0.0125
63	0.5916	20.5	1.85	10	88	88	91	92	765.300	773.178	7.8780	7.5887	7.5765	7.8509	0.9984	0.0020	1.7390	0.0021
63	0.5916	20.5	1.85	10	88	88	92	92	773.178	781.096	7.9180	7.6203	7.5765	7.8509	0.9943	-0.0021	1.7375	0.0005
63	0.5916	20.5	1.85	10	88	88	93	93	781.096	789.010	7.9140	7.6027	7.5765	7.8509	0.9966	0.0002	1.7343	-0.0026
AVERAGE															0.9964	0.0036	1.7369	0.0038
73	0.8234	17.5	3.55	10	88	88	93	94	790.000	800.963	10.9630	10.5659	10.5451	10.9270	0.9980	-0.0039	1.7164	0.0026
73	0.8234	17.5	3.55	10	88	88	94	95	800.963	811.885	10.9220	10.5074	10.5451	10.9270	1.0036	0.0017	1.7133	-0.0005
73	0.8234	17.5	3.55	10	88	88	95	95	811.885	822.812	10.9270	10.5028	10.5451	10.9270	1.0040	0.0021	1.7118	-0.0021
AVERAGE															1.0019	0.0019	1.7139	0.0096

SEMI ANNUAL CALIBRATION — DATE 3/21/2009 — BAROMETRIC PRESSURE 30.12

ORIFICE SERIAL NO.	ORIFICE K' FACTOR	ACTUAL VACUUM	^H (IN H2O)	TIME (MIN.)	AMBIENT TEMP INITIAL	AMBIENT TEMP. FINAL	METER TEMP. INITIAL	METER TEMP. FINAL	METER READING INITIAL	METER READING FINAL	VM (CU.FT.)	VM CORRECTE	Vcr STD	Vcr NOMINAL	Y	VARIATION	^H (IN. H2O)	VARIATION
55	0.4616	21.0	1.15	10	76	75	82	81	679.000	685.182	6.1820	6.0828	6.0082	6.0555	0.9877	-0.0086	1.7590	-0.0011
55	0.4616	21.0	1.15	10	75	75	81	80	685.182	691.342	6.1600	6.0723	6.0110	6.0526	0.9899	-0.0064	1.7606	0.0005
55	0.4616	21.0	1.15	10	75	74	80	80	691.342	697.478	6.1360	6.0543	6.0138	6.0498	0.9933	-0.0030	1.7606	0.0005
AVERAGE															0.9903	-0.0060	1.7600	0.0171
																PASS		PASS

METER COMPARISON CHECK (Yqa) — Y_{qa} = (O / Vm) X sqr(.319 x Tm X 29 / (^Ha x (Pb + (Havg / 13.6) x Md)) X sqq ^H avg

	Run 1	Run 2	Run 3	Average
Y_{qa} =	0.9871	0.9884	1.0045	0.9934

THERMOCOUPLE CALIBRATION

DATE 9/20/2009

	TC-1 (DEG F)	ASTM THERMOMETER (DEG F)
ICE	31	32
BOILING H2O	211	212
OIL	354	352

NOZZLE CALIBRATION

DATE 3/4/2010

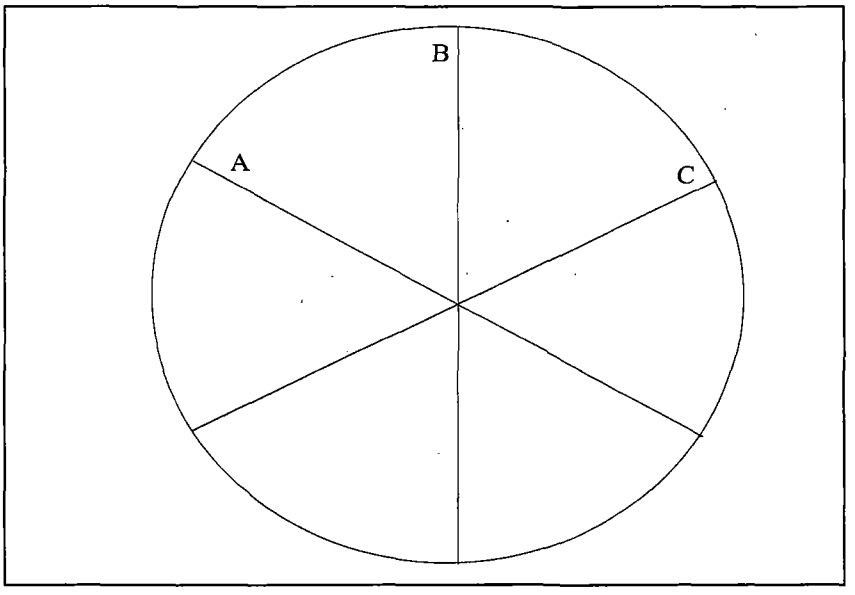
READINGS IN (IN.)				AVERAGE
#24	0.750	0.750	0.751	0.7503

PITOT TUBE CP=.84 ACCORDING TO DESIGN SPECIFICATIONS

Nozzle Calibration

Nozzle ID #24

A =	0.750
B =	0.750
C =	0.751
Average	0.7503

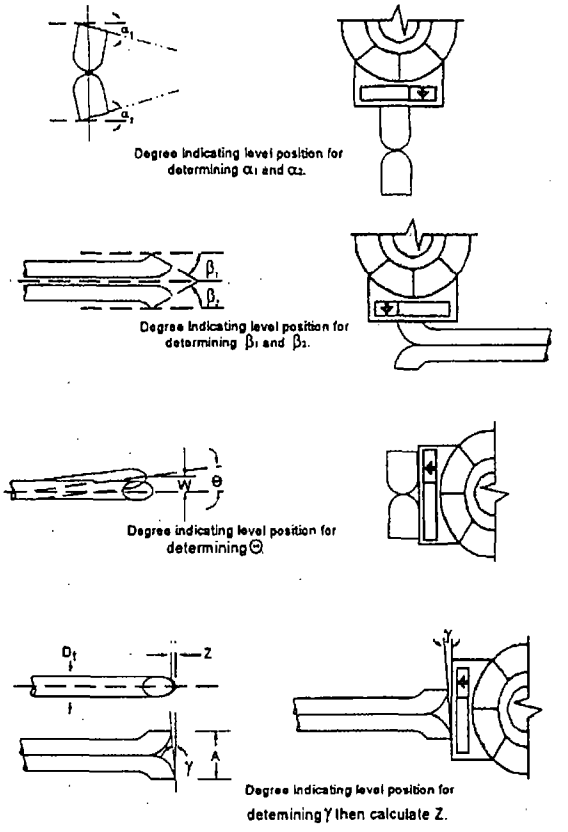


Calibration Date 3/4/2010

Calibrated by

PITOT CALIBRATION

(Type S Pitot Tube Inspection)



Level and Perpendicular?	Yes
Obstruction?	No
Damaged?	No
α_1 ($-10° \leq \alpha_1 \leq +10°$)	2
α_2 ($-10° \leq \alpha_2 \leq +10°$)	0
β_1 ($-5° \leq \beta_1 \leq +5°$)	1
β_2 ($-5° \leq \beta_2 \leq +5°$)	1
Y	1
θ	-2
$z = A \tan \gamma$ ($\leq 0.125°$)	0.017
$w = A \tan \theta$ ($\leq 0.03125°$)	-0.034
D_t ($3/16'' \leq D_t \leq +3/8''$)	0.375
A	0.961
$A/2\,D_t$ ($1.05 \leq P_A / D_t \leq 1.51$)	1.281

Certification

I hereby certify that type S pitot tube ID# P-5AC meets or exceeds all specifications, critera and applicable design features, and is hereby assigned a pitot tube calibration factor of 0.84.

Certified by: _____ Date: 9/20/09

EVERGLADES CREMATIONS

DATE: 3/3/2010
RUN: 1
UNIT: 2

AVG. ADJUSTED CO ppmvd @ 7% O2	0.79
CORRECTED O2 %	13.43
CORRECTED CO2 %	5.14
CORRECTED CO ppmvd	0.42

ANALYZER RESPONSE, SYSTEM BIAS AND SYSTEM DRIFT DATA

RANGE SETTING	CAL GASES	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFFERENCE PPM	% SPAN	ANALYZER PRETEST VALUE	% SPAN	ANALYZER POSTTEST VALUE	% SPAN	% DRIFT	ANALYZER SERIAL #
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	% O2	12.04	12.00	-0.04	-0.18	12.00	0.00	12.00	0.00	0.00	01420B153
		22.62	22.50	-0.12	-0.53						
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	% CO2	9.62	9.60	-0.02	-0.12	9.60	0.00	9.60	0.00	0.00	01410/B139
		17.27	17.30	0.03	0.17						
		0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.0	
100	PPM CO	48.5	48.4	-0.10	-0.1	48.30	-0.1	48.20	-0.2	-0.1	48C-68845-361
		102.00	102.90	0.90	0.9						

UNCORRECTED RAW DATA

DATE & TIME	O2 %	CO2 %	CO PPM
16:20	12.78	6.17	0.70
16:21	12.53	5.92	0.60
16:22	13.07	5.18	0.60
16:23	13.48	5.00	0.65
16:24	13.45	5.04	0.50
16:25	13.34	5.10	0.60
16:26	13.28	5.12	0.45
16:27	13.28	5.05	0.55
16:28	13.39	4.93	0.50
16:29	13.61	4.76	0.45
16:30	13.86	4.65	0.45
16:31	13.96	4.67	0.30
16:32	13.78	4.82	0.35
16:33	13.51	4.95	0.30
16:34	13.43	4.95	0.55
16:35	13.63	4.84	0.85
16:36	13.91	4.72	0.80
16:37	13.96	4.80	0.50
16:38	13.68	5.00	0.45
16:39	13.46	5.04	0.50
16:40	13.52	4.94	0.60
16:41	13.82	4.78	0.60
16:42	13.91	4.84	0.75
16:43	13.66	4.93	0.75
16:44	13.63	4.91	0.90
16:45	13.78	4.77	1.00
16:46	13.97	4.73	0.90
16:47	13.92	4.88	0.55
16:48	13.23	5.44	0.60
16:49	12.81	5.31	0.65
16:50	13.48	4.94	0.70
16:51	13.68	5.10	0.75
16:52	13.10	5.17	1.00
16:53	13.49	5.07	0.80
16:54	13.46	4.97	0.20
16:55	13.78	4.89	0.10
16:56	13.49	5.19	0.10
16:57	12.91	5.39	0.15
16:58	13.13	5.02	0.20
16:59	13.91	4.69	0.05
17:00	13.82	5.05	0.15
17:01	13.01	5.39	0.15
17:02	12.96	5.31	0.20
17:03	13.01	5.49	0.20
17:04	13.25	5.39	0.25
17:05	13.14	5.61	0.20
17:06	12.69	5.69	0.30
17:07	12.75	5.51	0.30
17:08	13.31	5.19	0.20
17:09	13.48	5.32	0.15
17:10	12.92	5.57	0.25
17:11	12.84	5.42	0.25
17:12	13.41	5.06	0.05
17:13	13.63	5.18	0.00
17:14	13.03	5.52	0.05
17:15	12.77	5.48	0.25
17:16	13.20	5.13	0.15
17:17	13.73	4.95	0.00
17:18	13.40	5.34	0.05
17:19	12.73	5.55	0.15

MEAN ANALYZER VALUES

Avg. % O2	13.39
Avg. % CO2	5.13
Avg. CO ppmvd	0.42

EVERGLADES CREMATIONS

DATE: 3/4/2010
RUN: 2
UNIT: 2

AVG. ADJUSTED CO ppmvd @ 7% O2	1.04
CORRECTED O2 %	13.79
CORRECTED CO2 %	4.46
CORRECTED CO ppmvd	0.53

ANALYZER RESPONSE, SYSTEM BIAS AND SYSTEM DRIFT DATA

RANGE SETTING	CAL GASES	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFFERENCE PPM	% SPAN	ANALYZER PRETEST VALUE	% SPAN	ANALYZER POSTTEST VALUE	% SPAN	% DRIFT	ANALYZER SERIAL #
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	% O2	12.04	12.00	-0.04	-0.18	12.00	0.00	11.90	-0.44	-0.44	01420B153
		22.62	22.50	-0.12	-0.53						
		0.00	0.00	0.00	0.00	0.10	0.58	0.00	0.00	-0.58	
20	% CO2	9.62	9.60	-0.02	-0.12	9.60	0.00	9.60	0.00	0.00	01410/B139
		17.27	17.30	0.03	0.17						
		0.00	0.00	0.00	0.0	0.10	0.1	0.00	0.0	-0.1	
50	PPM CO	48.50	48.40	-0.10	-0.1	48.60	0.2	48.10	-0.3	-0.5	48C-68845-361
		102.00	102.90	0.90	0.9						

UNCORRECTED RAW DATA

DATE & TIME	O2 %	CO2 %	CO PPM
9:30	11.82	7.41	0.60
9:31	10.44	7.54	1.15
9:32	11.59	5.91	1.25
9:33	13.23	4.97	1.20
9:34	13.35	5.06	0.90
9:35	13.06	5.06	0.65
9:36	13.03	5.04	0.50
9:37	13.14	4.89	0.45
9:38	13.28	4.78	0.45
9:39	13.40	4.67	0.45
9:40	13.50	4.60	0.45
9:41	13.56	4.54	0.40
9:42	13.63	4.49	0.40
9:43	13.71	4.41	0.40
9:44	13.79	4.36	0.40
9:45	13.78	4.38	0.45
9:46	13.77	4.36	0.40
9:47	13.80	4.34	0.45
9:48	13.83	4.32	0.30
9:49	13.83	4.29	0.30
9:50	13.85	4.27	0.30
9:51	13.88	4.23	0.25
9:52	13.93	4.18	0.25
9:53	13.99	4.13	0.25
9:54	14.00	4.12	0.25
9:55	14.04	4.09	0.30
9:56	14.04	4.09	0.30
9:57	14.07	4.06	0.25
9:58	14.09	4.06	0.20
9:59	13.85	4.49	0.15
10:00	13.06	4.88	0.25
10:01	12.97	4.55	0.35
10:02	14.02	4.17	1.25
10:03	14.04	4.13	0.85
10:04	14.08	4.14	0.70
10:05	14.01	4.19	0.75
10:06	13.98	4.20	0.80
10:07	13.94	4.26	0.80
10:08	13.93	4.23	0.80
10:09	13.94	4.22	0.70
10:10	13.98	4.19	0.80
10:11	14.03	4.14	0.75
10:12	14.06	4.12	0.70
10:13	14.09	4.10	0.70
10:14	14.13	4.10	0.70
10:15	14.16	4.07	0.75
10:16	14.19	4.07	0.70
10:17	14.17	4.08	0.70
10:18	14.15	4.09	0.65
10:19	14.18	4.11	0.65
10:20	14.11	4.14	0.65
10:21	14.09	4.16	0.60
10:22	14.06	4.18	0.60
10:23	14.05	4.19	0.65
10:24	14.02	4.24	0.65
10:25	13.92	4.35	0.70
10:26	13.79	4.44	0.70
10:27	13.69	4.53	0.65
10:28	13.56	4.64	0.65
10:29	13.39	4.80	0.65

MEAN ANALYZER VALUES

Avg. % O2	13.68
Avg. % CO2	4.48
Avg. CO ppmvd	0.58

EVERGLADES CREMATIONS

DATE: 3/4/2010
RUN: 3
UNIT: 2

AVG. ADJUSTED CO ppmvd @ 7% O2	0.74
CORRECTED O2 %	13.23
CORRECTED CO2 %	5.03
CORRECTED CO ppmvd	0.41

ANALYZER RESPONSE, SYSTEM BIAS AND SYSTEM DRIFT DATA

RANGE SETTING	CAL GASES	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFFERENCE PPM	% SPAN	ANALYZER PRETEST VALUE	% SPAN	ANALYZER POSTTEST VALUE	% SPAN	% DRIFT	ANALYZER SERIAL #
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	% O2	12.04	12.00	-0.04	-0.18	11.90	-0.44	11.90	-0.44	0.00	01420B153
		22.62	22.50	-0.12	-0.53						
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	% CO2	9.62	9.60	-0.02	-0.12	9.60	0.00	9.60	0.00	0.00	01410/B139
		17.27	17.30	0.03	0.17						
		0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.0	
50	PPM CO	48.50	48.40	-0.10	-0.1	48.10	-0.3	47.80	-0.6	-0.3	48C-68845-361
		102.00	102.90	0.90	0.9						

UNCORRECTED RAW DATA

DATE & TIME	O2 %	CO2 %	CO PPM
11:00	16.14	3.07	1.30
11:01	15.99	3.06	0.60
11:02	16.01	3.16	0.50
11:03	15.08	3.89	0.35
11:04	14.37	4.14	0.40
11:05	14.06	4.44	0.45
11:06	13.64	4.76	0.45
11:07	13.22	5.12	0.55
11:08	12.91	5.26	0.65
11:09	12.80	5.34	0.75
11:10	12.73	5.37	0.80
11:11	12.68	5.41	0.75
11:12	12.64	5.40	0.85
11:13	12.64	5.41	0.85
11:14	12.59	5.44	0.95
11:15	12.58	5.44	0.95
11:16	12.68	5.33	1.00
11:17	12.91	5.13	0.90
11:18	13.41	4.83	0.75
11:19	13.66	4.86	0.65
11:20	13.33	5.10	0.75
11:21	13.09	5.13	0.70
11:22	13.13	5.03	0.65
11:23	13.24	4.98	0.65
11:24	13.26	4.99	0.60
11:25	13.28	4.94	0.65
11:26	13.36	4.89	0.60
11:27	13.41	4.88	0.65
11:28	13.41	4.84	1.30
11:29	13.71	4.84	0.85
11:30	12.43	5.59	0.15
11:31	12.17	5.56	0.05
11:32	12.19	5.57	0.05
11:33	12.20	5.52	0.05
11:34	12.26	5.48	0.05
11:35	12.29	5.47	0.05
11:36	12.30	5.44	0.10
11:37	12.35	5.41	0.05
11:38	12.38	5.38	0.05
11:39	12.42	5.36	0.05
11:40	12.43	5.36	0.20
11:41	12.46	5.31	0.10
11:42	12.54	5.28	0.10
11:43	12.54	5.28	0.10
11:44	12.58	5.24	0.10
11:45	12.58	5.28	0.10
11:46	12.59	5.23	0.10
11:47	12.63	5.22	0.10
11:48	12.65	5.17	0.15
11:49	12.74	5.13	0.15
11:50	12.78	5.10	0.05
11:51	12.83	5.08	0.05
11:52	12.85	5.06	0.05
11:53	12.90	5.03	0.05
11:54	12.96	4.98	0.05
11:55	13.02	4.93	0.05
11:56	13.08	4.92	0.10
11:57	13.09	4.90	0.10
11:58	13.12	4.88	0.05
11:59	13.21	4.77	0.00

MEAN ANALYZER VALUES

Avg. % O2	13.07
Avg. % CO2	5.02
Avg. CO ppmvd	0.40

Attachment F - Project Participants

Project Participants

Arlington Environmental Services, Inc.

William Arlington
Project Director

Rufus Rhoden
Field Technician

Kaye Arlington
Laboratory Analyst

Debra Carter
Computer Analysis

Coastal Air Consultants, Inc

Stephen Webb

Guiding Light Cremations, Unit 2

Geronimo Mena
Facility Manager

Broward County Environmental Management

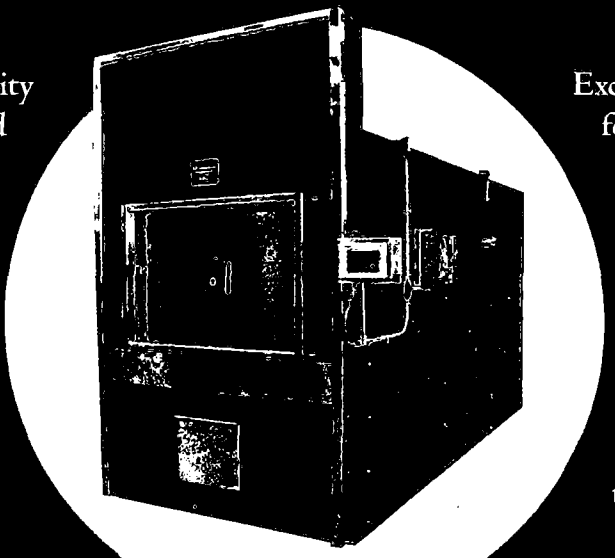
Courtney Pitters
Inspector

Attachment 2
Equipment Drawings and Brochures

The "Classic" Cremator

PERFORMANCE BEYOND EXPECTATIONS

BUILT to exacting quality and safety standards and backed by a two-year limited warranty, the fuel efficient "Classic" outperforms every other cremator in its price range. Take a look at some of the performance benefits the "Classic" offers!



Model US 100
"Classic" Cremator

Exceptional standard features combine with professional expertise to deliver the product and service you demand. Unsurpassed in customer support, you can rely on U. S. Cremation Equipment's "Classic" to provide years of trouble-free operation.

CLASSIC PERFORMANCE

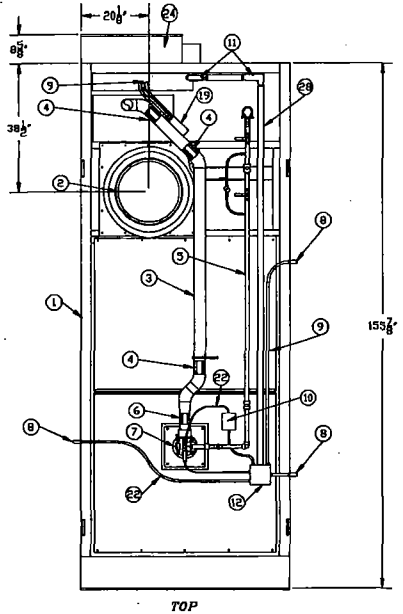
- Cremate up to six bodies in a 10-hour work day
- Complete cremation every 60 - 90 minutes
- No cool down required between cremations
- Designed to cremate obese cases up to 800 lbs.
- Fully automatic PLC operating system

CLASSIC FEATURES

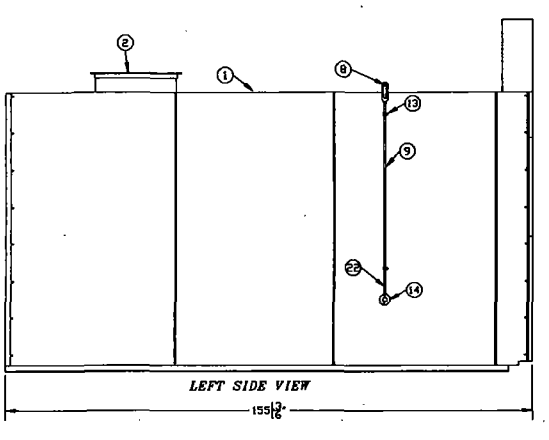
- Power charging door/dual hydraulic cylinders
- Primary chamber viewport
- Secondary chamber temperature recorder
- Color touch screen control - standard
- Powder coat finish with stainless steel trim

US Cremation Equipment
A Division of... American Incinerator

370 S. North Lake Boulevard, Suite 1004 • Altamonte Springs, FL 32701 • Ph: 321.282.7357 • Fax: 321.282.7358
www.uscremationequipment.com • E-mail: info@uscremationequipment.com

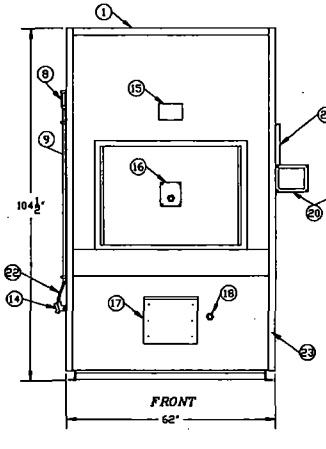


TOP



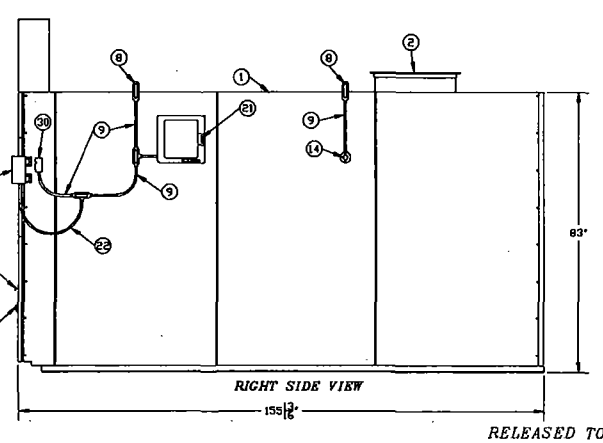
LEFT SIDE VIEW

155 12/16"



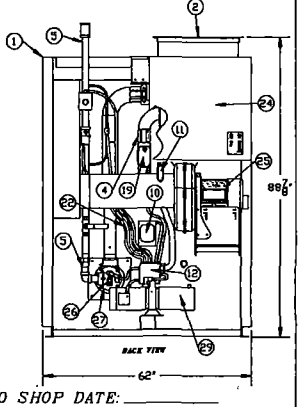
FRONT

62"



RIGHT SIDE VIEW

155 12/16"



BACK VIEW

62"

ITEM	QTY	DESCRIPTION
1	1	113 - FRAME ASSEMBLY
2	1	141 - STACK LAYOUT SMOKE SENSOR LOCATION
3	1	146 - MACHINE AIR SUPPLY
4	7	3" FERNCO COUPLING
5	1	287 - GAS TRAIN 3 PIPING SYSTEM
6	1	2 1/2" FERNCO COUPLING
7	1	TOP BURNER ECLIPS TJ50
8	3	1/2" ELECTRICAL LB
9	A/R	1/2" CONDUIT
10	2	DOGAN INTERCHANGEABLE INGNITOR TRANSFORMER A06-SA6
11	3	1 1/2" ELECTRICAL LB
12	2	HOFFMAN ENCLOSURE ASG 6 X 6 X 4
13	A/R	1/2" CADDY BRACKETS
14	2	THERMOCOUPLE THERMAL EQUIP SYSTEM K11-16-BH-18-31
15	1	NAME PLATE SUPPLIED BY US CREMATION
16	1	135 - PEP SITE ASSEMBLY
17	1	230 - ASH BIN ASSEMBLY
18	1	LIQUID LEVEL SIGHTS P/N 1210K26 MCMASTER-CARR
19	3	BELIND LF120 US
20	1	SEMENS TOUCH SCREEN
21	1	PARTLOV CHART RECORDER MRC5000
22	A/R	1/2" ELECTRICAL FLEX CONDUIT
23	1	134 - TRIM SS LAYOUT
24	1	581 - ASSEMBLY ELECTRICAL 30 X 30 CONTROL PANEL
25	1	AMERICAN FAN COMPANY P/N/ 24133 FAIRFEILD OHIO
26	2	UV SCANNER MODEL 560090A ECLIPS
27	1	BOTTOM BURNER ECLIPS TJ150
28	A/R	1 1/2" ELECTRICAL CONDUIT
29	1	WORLD WIDE ELECTRICAL CROP INDUSTRIAL FRACTIONAL
		MOTOR AT L5-18-56CB
30	1	SQUARE D SENSOR P/N 9007C482

RELEASED TO SHOP DATE: _____

NO.	DATE	DESCRIPTION	BY

US Cremation Equipment

DRAWN BY: CAM | DATE: 2/21/08

US CREMATION EQUIPMENT

MAIN ASSEMBLY W 30 X 30 ELECTRICAL CONTROL PANEL

JOB NO. 584

MODEL NO. CLASSIC | SCALE: 3/4"=1'-0" | SIZE: B | SHEET | REV

US Cremation Equipment
A Division of... American Incinerators

HUMAN CREMATION CHAMBER SPECIFICATION

EQUIPMENT:

US Cremation Equipment a division of American Incinerators Co. - Multiple Chambered human Crematory, Natural Gas, Propane (LP) or Oil fired.

MANUFACTURER:

US Cremation Equipment a division of American Incinerators Corp.

CONSTRUCTION STANDARDS:

The American Incinerators cremation chamber shall be constructed of U.L./CSA listed components and will meet or exceed nationally accepted incinerator construction standards per the Incinerator Institute of America (IIA) publication guidelines; i.e.:

A. Primary chamber will not exceed 60% of total furnace volumes. Flue connection shall not be considered part of furnace volume.

B. Flame supervision through continuous ultraviolet scanning flame detectors on all burners.

C. High temperature refractory construction with air-cooled walls to prevent excessive heat radiation.

D. Exhaust gas temperature reduction.

INCINERATION CHAMBER DIMENSIONS:

Chamber volumes:	Primary - 73 CF Secondary - 71 CF
Structural footprint:	12'0" (L) x 5'0" (W)
Over-all dimensions:	12'7" (L) x 6'0" (W) x 9'2" (H) w/std. hyd. door

US Cremation Equipment
A Division of... American Incinerators

OPERATING TEMPERATURE:

Temperatures are determined as a result of federal, state or local permitting authority operating standards.

Typical primary chamber setting:	1,000°F-1,200°F
Typical secondary chamber setting:	1,400°F-1,800°F

RETENTION TIME:

In excess of 1 second.

CAPACITY:

One body and associated container per cremation cycle. 200 pounds per hour or 750 pounds per batch.

DRAFT:

Induced via refractory lined draft inducer.

SHIPPING WEIGHT:

24,500 lbs.

EMISSIONS:

The American Incinerators cremation chamber shall meet or exceed federal, state and local environmental regulations.

EMISSION CONTROL:

Secondary chamber equipped with one, 1,500,000 BTU/HR burner. Also equipped with an electronic exhaust gas scanner system which temporarily suspends operation of the primary chamber burner.

US Cremation Equipment
A Division of... American Incinerators

STEEL CONSTRUCTION SPECIFICATIONS:

A. The structure to be heavy 3" steel angle , square tube; 3/8" steel plate, seal welded construction.

B. Subfloors to be 3/16" steel plate, seal welded construction.

C. The exterior shell to be 12 gauge steel removable panels.

D. Interior shell to be 10 gauge steel, seal welded construction.

INSULATION & REFRACTORY SPECIFICATIONS:

A.	Hot Hearth:	3000°F abrasion resistant castable refractory, monolithic cast 7" - 13" thick, 1 -1/2" recessed top and rounded, stressed arched bottom.
B.	Chamber Floors:	3000°F abrasion resistant castable refractory, 5" thick on top of 2" 2400°F light weight insulating castable.
C.	Chamber Ceilings:	3000°F castable refractory, monolithic cast, rounded, stressed arched, 5"-9" thick, topped by 2" 2400°F light weight insulating castable.
D.	Interior Walls:	2800°F. alumina-silicate firebrick, 2 1/2" x 4 1/2" x 9", all chambers are backed by 4" of 1900°F ceramic fiber insulation
E.	Stack:	Lined with 2" of 2200°F insulating refractory.

SKIN TEMPERATURE CONTROL:

Integral dual casing, completely air-cooled design to prevent excessive heat radiation.

US Cremation Equipment
A Division of... American Incinerators

COMBUSTION EQUIPMENT:

A. Combustion Air - One, 3 phase, 208-230/460V, 17-15.5/7.6 amp 7 hp air-blower motor (1,400 CFM)

B. Primary Chamber - One 500,000 BTU/HR nozzle mix, gas-fired burner. Eclipse, North American, or equal.

C. Secondary Chamber - One, 1,500,000 BTU/HR modulating, nozzle mix, gas-fired burner. Eclipse, North American, or equal.

D. Burner Flame Safeguard - Control supervision on each burner via a flame safeguard relay and ultra-violet light detector.

E. Low Air Pressure Safety Switch - Interlocked to all burners.

EXHAUST GAS TEMPERATURE REDUCTION:

Hot air duct operating exit temperature: 900°F

HOT AIR DUCT:

10 gauge carbon steel, high temperature 2" refractory lining, pre-drilled flanges, 24" Outside Diameter, 28" at flanges.

UTILITY REQUIREMENTS:

A. GAS:

1. Pressure:

   a) Natural Gas: 7" to 9" W.C.
   b) Propane: 11" W.C.

2. Flow Rate: 2,000,000 BTU/HR

B. ELECTRICAL:

1. One, three phase, 208-230/460V, 17-15/8 amp connection for 5hp blower.

US Cremation Equipment

A Division of... American Incinerators

CREMATION CHAMBER LOADING/CLEAN-OUT DOOR:

Hydraulically operated, refractory lined, upward movement guillotine style door with gate view port.

CREMATION PROCESS CONTROL:

The cremation cycle is controlled by a programmable logic control (PLC) system. A visual confirmation of the system status is provided through control panel indicator lights and digital temperature display. Continuous fuel and air modulation is automatically controlled by a time/temperature actuated system. Operator interface is through two sets of simple push button controls and panel timer.

EXTERIOR FINISH:

The cremation chamber is finished with grey hi-resistance powder coating with stainless steel trim. Back of unit is coated with an epoxy type black coating.

Attachment 2
Emissions Calculations

Emission Calculations Based on AP-42 Table 2.1-12

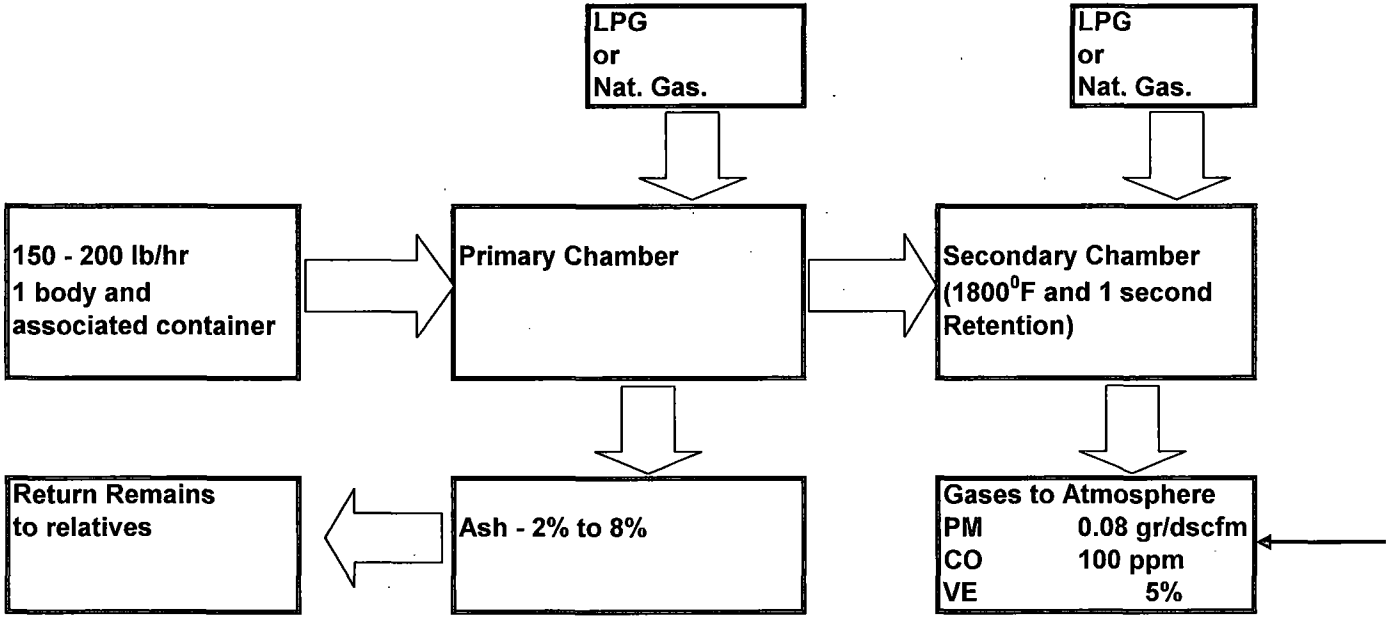
US Cremation Equipment
Model "Classic"

Pounds Incinerated Per Hour (Average)	Hours Per Year	SO2 lb/ton	SO2 lb/hr	SO2 TPY	Nox lb/ton	Nox lb/hr	Nox TPY	TOC lb/ton	TOC lb/hr	TOC TPY
200	8760	2.5	0.25	1.095	3	0.3	1.314	3	0.3	1.314

CO=100 PPM @ 7% O2 MAX, Actual CO Emissions Measured at 3.49 PPM
CO = 100 PPM X 28 MW X 1700 DSCFM X 2.595E-09 X 60 min/hr = 0.74 lb/hr CO
0.74 lb/hr CO X 8760 hrs/yr X 1 ton/2000 lb = 3.24 TPY CO

Actual Emissions were measured at 0.04 gr/dscfm at 7% O2
PM = 0.08 gr/dscf X 1 pound/7000 gr X 1700 DSCFM X 60 min/hr = 1.17 lb/hr PM
1.17 lb/hr PM X 8760 hrs/yr X 1 ton/2000 lb = 5.12 TPY PM

Attachment 4
Process Flow Diagram


LPG
or
Nat. Gas.
LPG
or
Nat. Gas.
150 - 200 lb/hr
1 body and
associated container
Primary Chamber
Secondary Chamber
(1800^{0}F and 1 second
Retention)
Return Remains
to relatives
Ash - 2% to 8%
Gases to Atmosphere
PM 0.08 gr/dscfm
CO 100 ppm
VE 5%

532400 MAR29 2012

March 23, 2012

Florida Department of Environmental Protection
FDEP Receipts
PO Box 3070
Tallahassee, FL 32315-3070

RECEIVED
MAR 3 0 2012
DIVISION OF AIR
RESOURCE MANAGEMENT

Re: General Permit Application for CEJ South, Inc. dba Family Funeral and Cremation

To whom it may Concern:

Enclosed is one (1) copy of the above referenced application along with a check made payable to the ***Florida Department of Environmental Protection*** in the amount of $100.00 for the application fee.

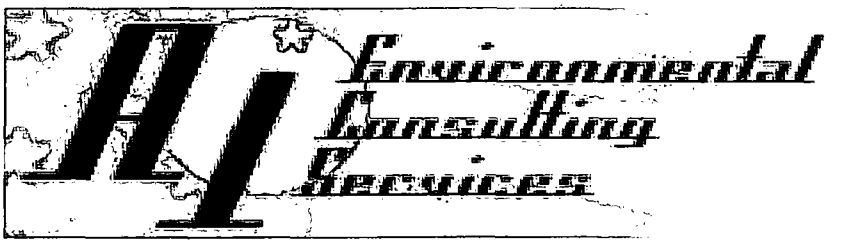
I trust this application is complete; however, should you have any questions or need any additional information for issuing the general permit, please contact me at (407) 574-2021 or e-mail at AI@CFL.RR.COM .

Respectfully submitted,
AI ENVIRONMENTAL CONSULTING SERVICES

Luis Llorens
President/Project Manager

Enclosures: One (1) Application and check

598 Northlake Blvd, Ste. 1016, Altamonte Springs, Florida 32701 - Phone: (407) 520-2021, FAX: (407) 574-2456
AI@CFL.RR.COM



General Permit Application
Human Crematory

Prepared for:

CEJ South, Inc. dba Family Funeral and Cremation
7253 Plantation Road
Pensacola, Florida 32504

Escambia County

Prepared By:

AI Environmental Consulting Services, Inc.
598 Northlake Blvd, Ste. 1016
Altamonte Springs, Florida 32701

Date: March 2012

598 Northlake Blvd, Ste. 1016, Altamonte Springs, Florida 32701 - Phone: (407) 520-2021, FAX: (407) 574-2456
AI@CFL.RR.COM

Application Contents

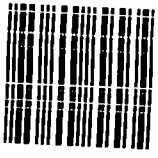
Form 62-210.920(2)(c) General Permit Application
Attachment 1 - Compliance Test Report
Attachment 2 - Equipment Drawings and Brochures
Attachment 3 - AP-42 Emissions Calculations
Attachment 4 - Process Flow Diagram

DELIVERY CONFIRMATION

0311 2550 0000 4477 2250

FIRM

1006



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FDEP Receipts
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Tallahassee, FL. 32315-3070

Label 228, January 2008

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