



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

January 19, 2009

Mr. James W. Young
Seawinds Funeral Home
Seawinds Crematory
805 Barrel Avenue
Fort Pierce, Florida 34982

Dear Mr. Young:

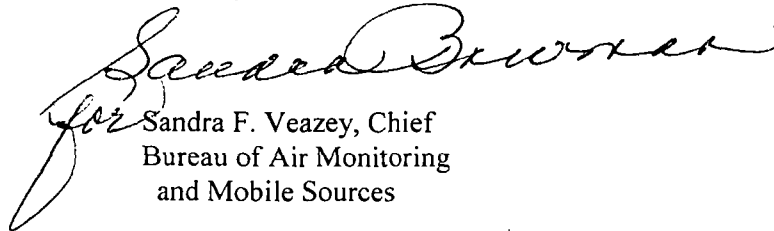
This is to acknowledge that your notification of intent to use the authority of Rule 62-210.310 to operate your facility was received on December 15, 2008. We have assigned ARMS No. 1110117-003 to this facility.

As you know, pursuant to Florida Statutes section 403.814, authority to operate under general permits commences thirty (30) days after receipt of the registration form unless you have been notified by this office that your facility has not shown entitlement to operate pursuant to the rule provisions.

For your information, authority to operate pursuant to Rule 62-210.310 expires after five (5) years. Therefore, a new registration form must be received no later than five (5) years after the date your notice was received as indicated above. If your general permit rule conditions require testing, such testing must be completed within the time frame specified in the rule.

If you have any additional questions, please contact Dickson Dibble at 850/921-9586.

Sincerely,



Sandra F. Veazey, Chief
Bureau of Air Monitoring
and Mobile Sources

SFV/pg

**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)

1110117-003

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):
The facility currently operates under permit: 1110117-General Permit _____
- 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.)

Seawinds Funeral Home/Seawinds Crematory

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.)

Seawinds Crematory

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 805 Barrel Avenue

City: Ft. Pierce

County: St. Lucie

Zip Code: 34982

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

NA

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: James W. Young. Owner

Owner/Authorized Representative Mailing Address

Organization/Firm: Cox-Gifford Funeral Home

Street Address: 1950 20th Street

City: Vero Beach

County:

Zip Code: 32960

Owner/Authorized Representative Telephone Numbers

Telephone: 772-562-2365

Fax: 772-562-0983

Cell phone (optional):

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):

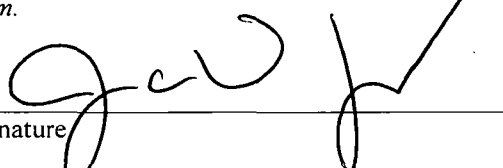
Owner/Authorized Representative Statement

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

12/12/08

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

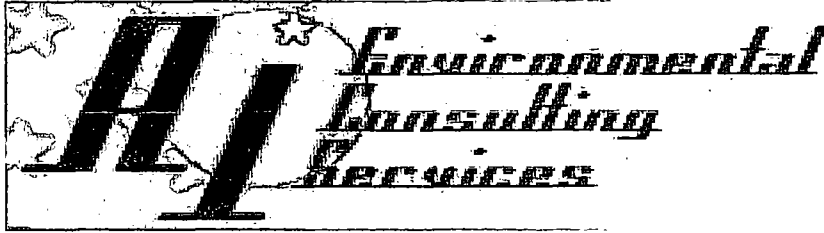
Description of Facility

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.

The residence time was calculated in construction permit application and is greater than 1 second at 1800F.

This facility fully complies with the eligibility criteria referenced on 62-210.310(2)(a) FAC. The crematory is the only air pollution source at this facility.

Equipment specifications and drawings were submitted along with the construction permit application. The facility is currently not being used however, the permittee would like to keep the permit active as he is planning on operating the facility.



General Permit Renewal Application

Prepared for:

***Seawinds Real Estate Company, LLC
Facility: Seawinds Funeral Home/Seawinds Crematory
805 Barrel Avenue
Ft. Pierce, Florida 34982
Source ID: 1110117
St. Lucie County***

Prepared By:

***AI Environmental Consulting Services, Inc.
370 S. North Lake Blvd, Ste. 1004
Altamonte Springs, Florida 32701***

Date: December 2008

Application Contents

- Form 62-210.920(2)(c) General Permit Application



Tuesday, January 06, 2009

Dickson E. Dibble
Florida Department of Environmental Protection
Air Resources Management
FDEP Receipts
PO Box 3070
Tallahassee, FL 32315-3070

RECEIVED

JAN 08 2009

Bureau of Air Monitoring
& Mobile Sources

Re: Seawinds Crematory - AIRS ID# 1110117

Dear Dickson:

As requested in your email of December 19, 2008, attached are the supplements that were included with the construction permit application.

If you have any questions, please call me at (407) 574-2021 or e-mail at AI@CFL.RR.COM.

Respectfully,
AI ENVIRONMENTAL CONSULTING SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Luis Llorens', is written over a horizontal line.

Luis Llorens
Project Manager

cc: James W. Young, - Seawinds Funeral Home

CERTIFIED MAIL RECEIPT NUMBER: 7007 0220 0001 7120 1880

RECEIVED

JAN 08 2009

Bureau of Air Monitoring
& Mobile Sources

Attachment 1
Area Map Showing Facility Location

RECEIVED

JAN 08 2009

Bureau of Air Monitoring
& Mobile Sources

Attachment 2
Facility Plot Plan

Attachment 3
Process Flow Diagram

Attachment 4
Supplemental Information For Construction Permit Applications

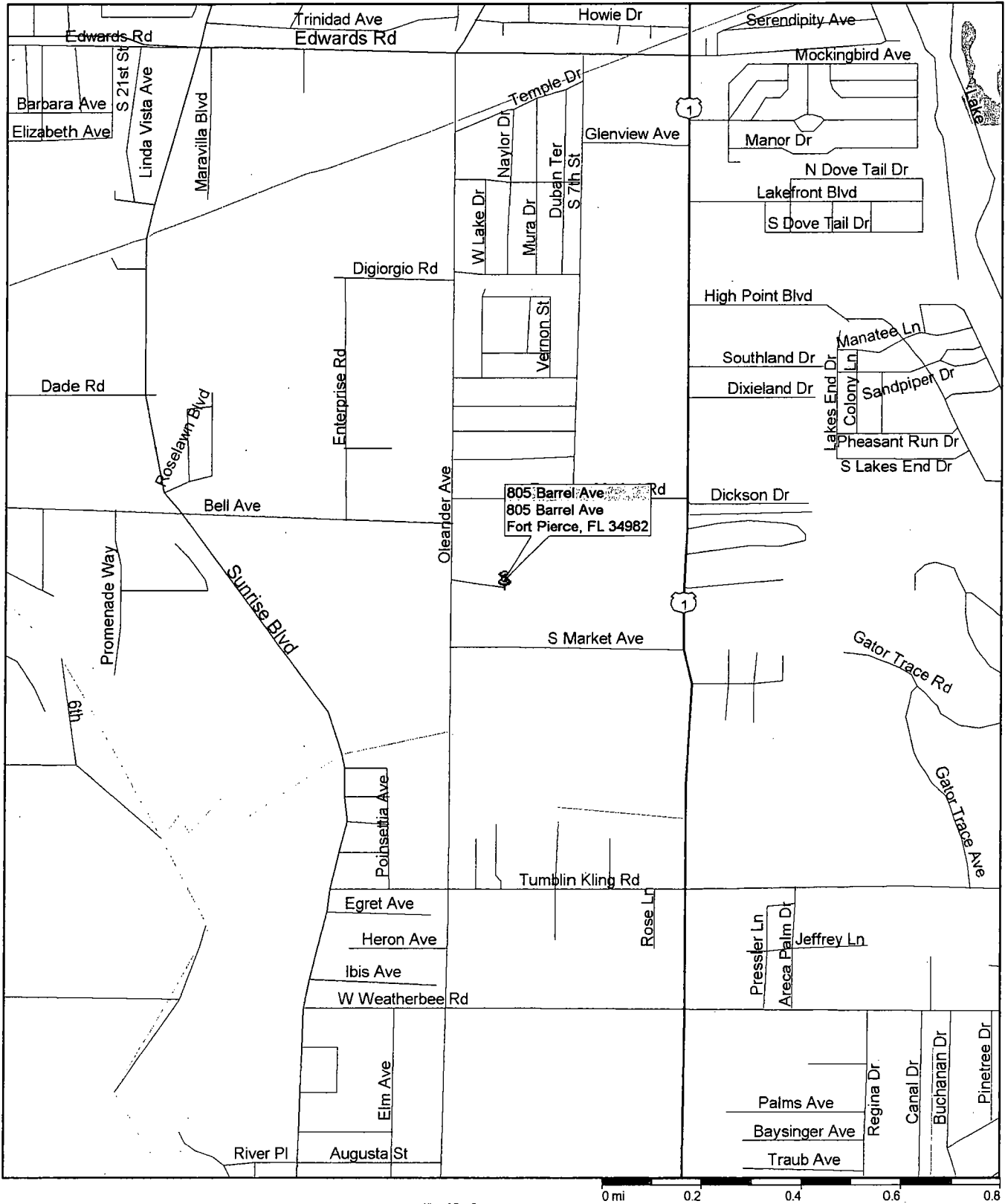
Attachment 5
Emission Calculations Based on AP-42

Attachment 6
Identical Unit State Approved Stack Test Report

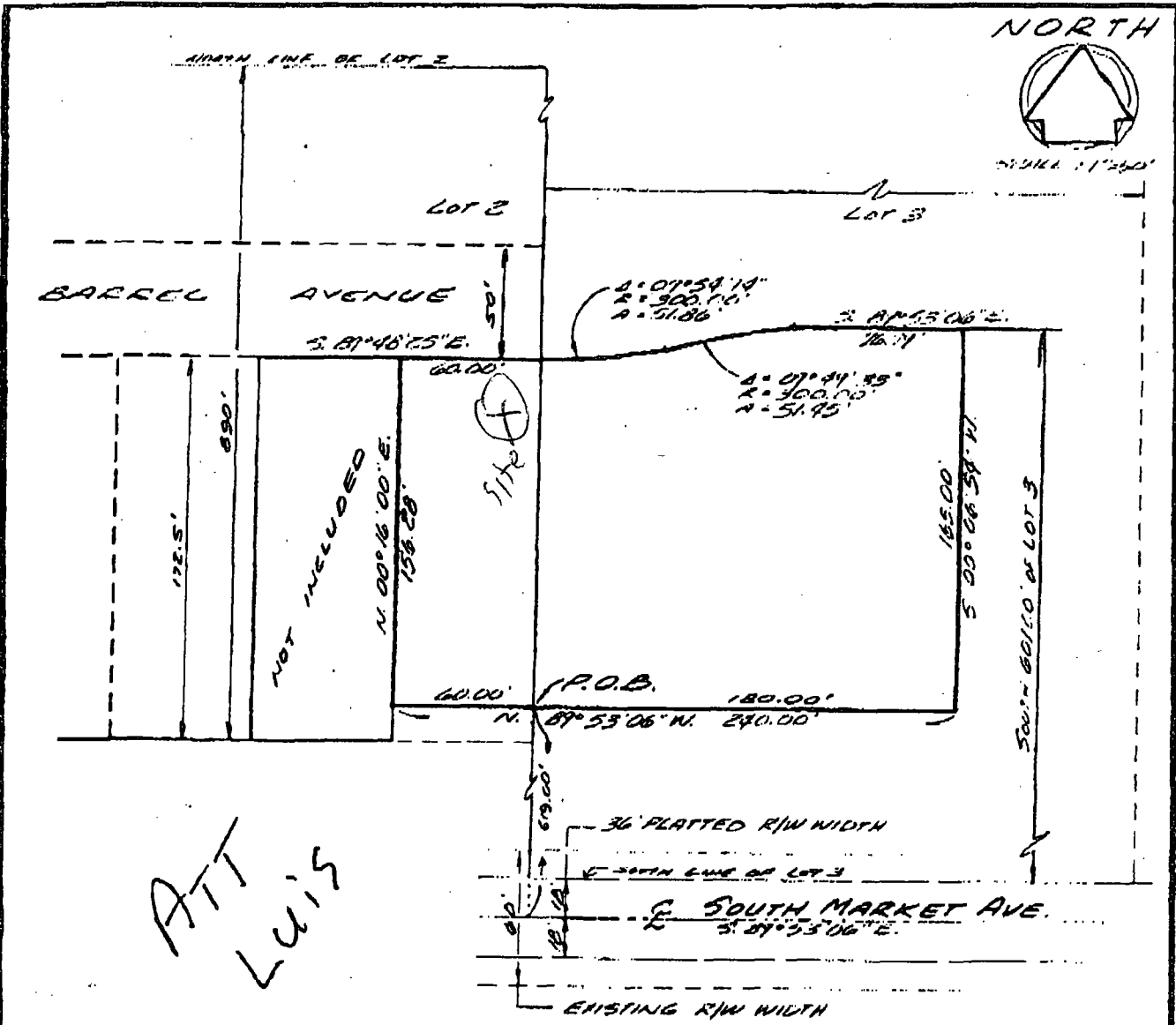
Attachment 7
Crawford Model C1000 Specifications & Engineering Drawings

Seawinds Crematory

805 Barrel Avenue, Ft Pierce 34982 - St. Lucie County



Microsoft Expedia.
Streets98



All that part of the East 80 feet of the South 172.5 feet of the South 385.00 feet of the North 890.00 feet of Lot 2, TOGETHER WITH all that part of the North 165.00 feet of the South 601.00 feet of Lot 3, both Lots 2 and 3 as shown on "J. J. KELLEN'S" Subdivision as recorded in Plat Book 3, at Page 88, of the Public Records of St. Lucie County, Florida, the herein described parcel being geometrically described as follows:

BEGINNING at a point (P.O.B.) being the Southwest corner of the North 165.00 feet of the South 601.00 feet of said Lot 3, said P.O.B. being 618.00 feet North of the centerline of an existing 80.00 foot wide right-of-way for South Market Avenue; thence from said P.O.B. run North 89°53'00" West, a distance of 80.00 feet; thence run North 00°36'00" East, a distance of 156.78 feet; thence run South 89°48'23" East along the North line of the South 172.50 feet of the South 385.00 feet of the North 890.00 feet of said Lot 2, a distance of 60.00 feet to a Point of Curvature of a curve concave to the Northwest having a radius of 300.00 feet; thence run Northeast along said curve through a central angle of 09°54'14", an arc distance of 51.88 feet to a Point of Reverse curvature with a curve concave to the Southeast having a radius of 300.00 feet; thence run Northeast along said curve through a central angle of 09°49'33", an arc distance of 51.45 feet to a Point of Tangency; thence run South 89°53'08" East along the North line of the South 601.00 feet of said Lot 3, a distance of 76.78 feet; thence run South 00°08'54" West, a distance of 165.00 feet; thence run North 89°53'08" West, along the South line of the North 165.00 feet of the South 601.00 feet of said Lot 3, a distance of 165.00 feet to the POINT OF BEGINNING.

The above described parcel contains 0.888 Acres by calculation of this description.
Description prepared by this office.

C E R T I F I C A T I O N

I hereby certify that this map of the herein described property is true and correct to the best of my knowledge and belief as surveyed in the field under my direction on 9-26-85, and this survey meets the minimum technical standards set forth in rule 12H-6 adopted by the Florida Board of Land Surveyors, Pursuant to Florida Statute 472.027. There are no encroachments other than those shown hereon.

Dated this 26 day of SEPT, 1985.

John G. Albrighton
JOHN G. ALBRIGHTON,
Florida Registration No. 2781

Fax Cover Sheet

Cox-Gifford Funeral Home

1950 20th Street

Vero Beach, Florida 32960

PHONE: (772) 562-2365

FAX: (772) 562-0983

Name: Luis

Organization:

Fax: 407-644-0823

Phone: 407-923-3945

From: JAMES YOUNG

Date: 10/27/2004

Subject: Crematory

Pages: 3

Comments:

Luis, Let's get to work
on Approvals

Thanks J.M.

CALL if ANY questions

This Document Prepared By and Return to:
Howard E. Googe, Jr., Esq.
Cornett, Googe & Associates, P.A.
401 E. Osceola Street
Stuart, FL 34994

Parcel ID Number: 2434-601-0015-010/5

Grantor #1 TIN:

Grantor #2 TIN:

Warranty Deed

This Indenture, Made this 18th day of October, 2004 A.D. Between Bayshore Limited, Inc., a Florida corporation

of the County of St. Lucie, State of Florida, grantor, and Seawinds Funeral Home I, LLC, a Florida limited liability company and Albertino Silva and Dolores Florio whose address is: 735 Fleming Street, Sebastian, FL 32958

of the County of Indian River, State of Florida, grantees.

Witnesseth that the GRANTOR, for and in consideration of the sum of TEN DOLLARS (\$10) DOLLARS, and other good and valuable consideration to GRANTOR in hand paid by GRANTEEES, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said GRANTEEES and GRANTEEES' heirs, successors and assigns forever, the following described land, situate, lying and being in the County of St. Lucie, State of Florida to wit:

All that part of the East 60 feet of the South 172.5 feet of the South 395.00 feet of the North 890.00 feet of Lot 2, TOGETHER WITH all that part of the North 165.00 feet of the South 601.00 feet of Lot 3, both Lots 2 and 3 as shown on "J.I. KELLEMS" Subdivision as recorded in Plat Book 3, at Page 85 of the Public Records of St. Lucie County, Florida, the herein described parcel being geometrically described as follows:

BEGINNING at a point (P.O.B.) being the Southwest corner of the North 165.00 feet of the South 601.00 feet of said Lot 3, said P.O.B. being 454.00 feet North of the centerline of an existing 60.00 foot wide right-of-way for South Market Avenue; thence from said P.O.B. run North 89°53'06" West, a distance of 60.00 feet; thence run North 00°16'00" East, a distance of 156.28 feet; thence run South 89°48'25" East along the North line of the South 172.50 feet of the South 395.00 feet of the North 890.00 feet of said Lot 2, a distance of 60.00 feet to a Point of Curvature of a curve concave to the Northwest having a radius of 300.00 feet; thence run Northeasterly along said curve through a central angle of 09°54'14", an arc distance of 51.86 feet to a Point of Reverse curvature with a curve concave to the Southeast having a radius of 300.00 feet; thence run Northeasterly along said curve through a central angle of 09°49'33", an arc distance of 51.45

(Continued on Attached)

and the grantor does hereby fully warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

In Witness Whereof, the grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Bayshore Limited, Inc., a Florida corporation

Kenneth C. Elkin
Printed Name: Kenneth C. Elkin
Witness

By: Douglas F. Skidmore (Seal)
Douglas F. Skidmore, President
P.O. Address: 3603 River Birch Drive, Fort Pierce, FL 34981

Michelle Florio
Printed Name: Michelle Florio
Witness

(Corporate Seal)

STATE OF Florida
COUNTY OF St. Lucie

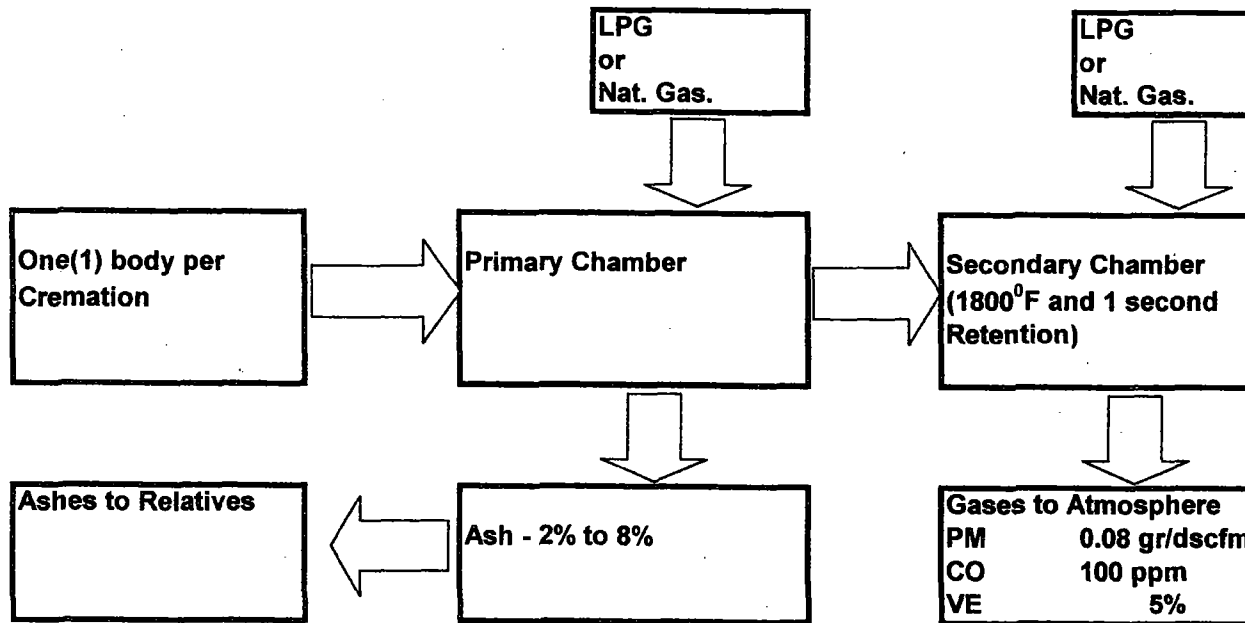
The foregoing instrument was acknowledged before me this 18th day of October, 2004 by Douglas F. Skidmore, President of Bayshore Limited, Inc., a Florida corporation on behalf of the corporation he is personally known to me or he has produced his Florida driver's license as identification.



Howard E. Googe
Printed Name: Howard E. Googe
Notary Public
My Commission Expires: 8/2/2008

Seawinds Crematory
Process Flow Diagram

C1000H Human Crematory



Supplemental Information for Construction Permit Applications

Process Description – Seawinds Crematory proposes to provide funeral cremation services to the general public and death care industry at 805 Barrel Avenue, Ft Pierce, St. Lucie County. The proposed cremator is a used C1000 series crematory that was manufactured by Crawford Equipment & Engineering, Inc.

Equipment Description

The C1000 is a multi-chamber unit having an average 150 lbs/hr (One body and associated container per cremation cycle, approximately 1,000 Btu/lb). The primary chamber burner is rated at 500,000 Btu/hr, and the secondary chamber burner is rated at 1,000,000 Btu/hr, for a total of 1,500,000 Btu/hr. Control of air pollution is achieved through the design of the C1000H 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 system is equipped with independent fuel/air systems, preheated combustion air, secondary chamber temperature monitor an recorder, UV continuous scanning flame detectors on burners, and an opacity sensor which can temporarily suspends operation of the primary chamber burner. In Attachment 7 we have include a copy of the crematory spec.

This source is equipped with a circular temperature chart recorder that continuously monitors the secondary chamber temperature.

Emissions Summary

Emission Summary and Calculations –. See Attachment 5 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 approved in the State of Florida. Air pollution control is demonstrated through similar source stack testing results (see Attachment 6). (Rule 62-296.401(5)(j), FAC).

Residence Time

According to the stack test report, residence time was measured at 1.5 seconds. (Rule 62-296.401(5)(c), F.A.C.).

Testing and Training

Once construction is completed, the source is going to be tested and the operators shall be trained in accordance with rule 62-296.401(5)(f) FAC by a personnel from AI Environmental Consulting which are State Approved for training operators of Crawford Equipment & Engineering crematories and incinerators.

Seawinds Crematory
C1000 Human Crematory

Emission Calculations Based on AP-42 Table 2.1-12

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
150	8760	2.5	0.19	0.82	3	0.23	0.986	3	0.23	0.986

CO=3.19 @ 7% O2 based on attached stack test report

PM = 0.045 gr/dscfm based on attached stack test report



1531 Wyngate Drive DeLand, FL 32724

Phone (386) 943 9241 / Cell (386) 451-0169 / Fax (386) 943 9212

COMPLETE EMISSIONS TESTING SERVICES • PERMITTING ASSISTANCE • CEMS CERTIFICATION • AMBIENT AIR MONITORING

Emissions Test Report

No. 127-004

PALM STATE MORTUARY SERVICES, LLC

**PARTICULATE EMISSIONS
CARBON MONOXIDE &
VISIBLE EMISSIONS**

Prepared for:

**Palm State Mortuary Services, LLC
12660 34th St. North
Clearwater, FL 33762**

Prepared by:

**Coastal Air Consulting, Inc.
1531 Wyngate Dr.
DeLand, FL 32724
(386) 943-9241**

August 12, 2005

STATEMENT OF VALIDITY

All testing activities and results represented herein were conducted and obtained in accordance with the approved EPA protocols listed in 40 CFR Part 80. The contents have been reviewed and verified to be true and correct.

Stephen C. Webb

Stephen C. Webb

President

Coastal Air Consulting, Inc.

1531 Wyngate Dr.

DeLand, FL 32724

(386) 943-9241

PROJECT STATISTICS

Client: Palm State Mortuary Services, LLC

Facility: Palm State Mortuary Services, LLC

Location: 12660 34th St. North
Clearwater, FL 33762

Type of Process Tested: Crawford Industrial Group
Model C1000H
Human Cremation Incinerator

Permit Number: 1030473-005-AC

Emission Unit ID Number: "1030473/EU 002"

Test Protocols Performed: Particulate-EPA Method 5
Opacity-EPA Method 9
Carbon Monoxide- EPA Method 10

Testing Firm: Coastal Air Consulting, Inc.
1531 Wyngate Dr.
DeLand, FL 32724

Test Personnel: Steve Webb President
Taylor Smith Technician

Test Date: August 4, 2005

Client Representative: Jay Tassillo

Observers: Jose Rodriguez – Pinellas County – Air Quality
Shannon Ransom – Pinellas County – Air Quality

1.0 Introduction

Coastal Air Consulting, Inc. (Coastal) was contracted by Palm State Mortuary Services, LLC to perform compliance testing for particulate, carbon monoxide and visible emissions on the Crawford C1000H Series, 150 lb/hr cremation system located in Clearwater Florida.

The sampling program was conducted on August 4, 2005. The testing was performed by Coastal personnel, with the assistance of personnel assigned by Palm State Mortuary Services. Mr. Thomas Tassillo coordinated plant operations during the testing.

2.0 Test Program Summary

A summary of test results developed by this source sampling program is presented in TABLES 1, 2 and 3 as follows;

TABLE 1
Summary of Particulate Emissions

Source	Particulate Grains/dscf @ 7% O2	Allowable Grains/dscf @ 7% O2
Human Cremation Unit	0.0303	0.08

TABLE 2
Summary of Visible Emissions

Source	Average VE %	Allowable %	Highest 3min. Avg. %	Allowable %
Human Cremation Unit	0.0	5.0	0.0	20.0

TABLE 3
Summary of CO Emissions

Source	CO ppm @ 7% O2	Permit ppm @ 7 % O2
Human Cremation Unit	7.02	100

3.0 Results of Testing

Individual test run results are shown in Table 4 and are tabulated in Appendix 1. These results indicate that the Crawford C1000H human cremation unit was in compliance at the time of testing under normal operating conditions.

4.0 Description of Source

The Crawford C1000H Series is a multiple chambered, controlled air, hot hearth human crematory. The capacity rating is 150 lb/hr and has a 65.37 cubic foot primary chamber followed by a 89.29 cubic foot secondary chamber. The maximum total heat input rate is 2.0 mmBtu/hr (0.5 mmBtu/hr primary chamber and 1.5 mmBtu/hr secondary chamber).

The emissions are controlled by the afterburner which maintains a minimum secondary chamber combustion zone temperature of 1,600 °F prior to and during combustion of material in the primary chamber. The secondary chamber requires at least a one second residence time at a gas temperature of 1,800 °F. The secondary chamber is continuously monitored and recorded.

The flue gas is exhausted through the C1000H stack. A schematic of the process and stack sampling location is included in Appendix 3 "Figures".

5.0 Sampling Procedures

EPA testing protocols utilized during this test program include the following:

EPA Method 1	Sample and Velocity Traverse for Stationary Sources
EPA Method 2	Determination of Stack Gas Velocity and Volumetric Flow Rate
EPA Method 3A	Gas Analysis for CO ₂ , O ₂ , Excess Air and Dry Molecular Weight (Instrumental Analyzer Method)
EPA Method 4	Determination of Moisture Content in Stack Gas
EPA Method 5	Determination of Particulate Emissions from Stationary Sources
EPA Method 9	Visual Determination of The Opacity of Emissions From Stationary Sources
EPA Method 10	Determination of Carbon Monoxide Emissions From Stationary Sources

The test runs were conducted in triplicate for all parameters with each being at least minutes in duration.

The eight and two-diameter criterion was not met, so the traverse points were determined from figure 1-1 and table 1-2 in 40 CFR Part 60, App. A, Method 1.

6.0 Operating Conditions

Palm State Mortuary Services personnel monitored operating conditions throughout the duration of the sampling program. The unit was operating under normal conditions at approximately 1650 °F and 150 lb/hr.

7.0 Quality Assurance Procedures

Quality assurance procedures followed during these activities were applied consistent with the requirements outlined by the EPA methods referenced in 40 CFR Part 60. Analyzer calibrations, system bias and drift checks were completed before and after each sample run utilizing EPA Protocol 1 calibration gases.

TABLE 4
COASTAL AIR CONSULTING, INC.
PARTICULATE EMISSION TEST SUMMARY

CLIENT: Palm State Crematory
UNIT: Crawford C1000H

METHOD: 5

DATE OF RUN	<u>RUN 1</u>	<u>RUN 2</u>	<u>RUN 3</u>
	8/4/05	8/4/05	8/4/05
START TIME (24-HR CLOCK)	1028	1325	1545
END TIME (24-HR CLOCK)	1141	1429	1650
VOL DRY GAS SAMPLED METER COND (DCF)	50.888	49.064	50.713
BAROMETRIC PRESSURE (IN. HG)	29.98	29.98	29.98
AVG ORIFICE PRESSURE DROP (IN. H2O)	2.287	2.168	2.292
AVG GAS METER TEMP (F)	82.7	87.9	89.3
GAS METER CALIBRATION FACTOR	1.0060	1.0060	1.0060
VOL GAS SAMPLED STD COND (DSCF)	50.169	47.897	49.395
TOTAL WATER COLLECTED (G)	110.7	96.2	81.6
VOL WATER COLLECTED STD COND (SCF)	5.22	4.54	3.85
MOISTURE IN STACK GAS (% VOL)	9.42	8.65	7.23
MOLE FRACTION DRY GAS	0.906	0.913	0.928
CO2 VOL PERCENT DRY	4.0	5.1	4.2
O2 VOL PERCENT DRY	14.8	13.8	15.0
N2 VOL PERCENT DRY	81.20	81.10	80.80
MOL. WT. DRY STACK GAS (LB/LB-MOLE)	29.23	29.37	29.27
MOL. WT. WET STACK GAS (LB/LB-MOLE)	28.17	28.38	28.46
ELEV. DIFF. FROM MANOM. TO BAROM. (FT)	0.00	0.00	0.00
STACK GAS STATIC PRESSURE (IN. H2O GAGE)	0.01	0.01	0.01
STACK GAS STATIC PRESSURE (IN. HG ABS.)	29.98	29.98	29.98
AVERAGE SQUARE ROOT VELOCITY HEAD	0.334	0.323	0.327
PITOT TUBE COEFFICIENT	0.84	0.84	0.84
AVG STACK TEMP (F)	819.0	922.3	891.4
STACK GAS VELOCITY STACK COND (FT/SEC)	29.55	29.54	29.57
CROSS SECTION STACK AREA (SQ FT)	2.2	2.2	2.2
STACK GAS FLOW RATE STD COND (DSCFM)	1461.5	1363.6	1417.8
STACK GAS FLOW RATE STACK COND (ACFM)	3900.8	3900.1	3903.7
NET TIME OF RUN (MIN)	60	60	60
NOZZLE DIAMETER (IN)	0.489	0.489	0.489
PERCENT ISOKINETIC	96.56	98.81	98.00
PARTICULATE COLLECTED (MG)	21.7	39.2	69.0
RESIDENCE TIME (SEC)	1.53	1.44	1.48
PARTICULATE EMISSIONS (GRAINS/SCF)	0.0067	0.0126	0.0216
PARTICULATE EMISSIONS (GRAINS/SCF) @ 7%O2	0.0152	0.0247	0.0508
PARTICULATE EMISSIONS (LBS/HR)	0.084	0.148	0.262
PARTICULATE EMISSIONS (LBS/HR) @ 7% O2	0.190	0.289	0.617
AVERAGE PARTICULATE EMISSIONS (GRAINS/SCF)		0.0136	
AVERAGE PARTICULATE EMISSIONS (GRAINS/SCF) @ 7%O2		0.0302	
AVERAGE PARTICULATE EMISSIONS (LBS/HR)		0.1644	
AVERAGE PARTICULATE (LBS/HR) @ 7% O2		0.3656	

NOTE: STANDARD CONDITIONS - 68F, 29.92 in. Hg

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 205A 205B Other

Category Name
 Palm State Crematory
 Facility Name
 Palm State Crematory
 Street Address
 12660 34th St. North
 City
 Clearwater State FL Zip 33762

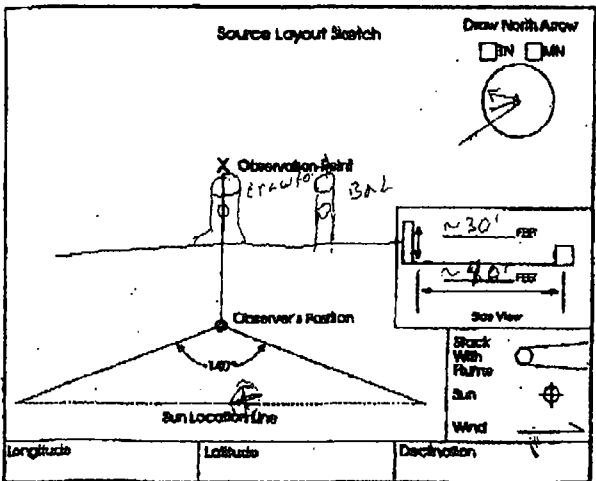
Process
 Human Cremation Unit # 1606H Operating Mode 1600
 Control Equipment
 After burners Speeding Mode on

Describe Emission Point
 Round Black Stack, Eastern most
 of two
 Height of Emis. Pt. Start ~30' End 11
 Distance to Emis. Pt. Start ~40' End 11
 Height of Emis. Pt. to Observer Start ~2' End 11
 Direction to Emis. Pt. (Degrees) Start ~79° End 11

Vertical Angle to Obs. Pt. Start <18° End 11
 Direction to Obs. Pt. (Degrees) Start ~79° End 11
 Distance and Direction to Observation Point from Emission Point
 Start ~11' above End 11

Describe Emissions
 Start Clear Heat Waves End 11
 Emission Color
 Start Clear End 11 Attached Detached None

Describe Plume Background
 Start SKY End 11
 Background Color
 Start Gray End 11
 Wind Speed
 Start 3-5 mph End 11
 Ambient Temp. Start ~92°f End 11
 Sky Conditions
 Start overcast End 11
 Wind Direction
 Start NW End 11
 Wet Bulb Temp. Air Percent



Additional Information
 VE WAS done from roof top, during
 Particulate Run # 2

VEOF1.1

Form Number Page 1 of 1
 Continued on VEO Form Number

OBSERVATION DATE				START TIME				STOP TIME			
8-4-05				1325-1344				1359-1429			
MIN	SEC			MIN	SEC			MIN	SEC		
	0	15	30		45	0	15		30	45	
1	0	0	0	0	31	0	0	0	0	0	0
2	0	0	0	0	32	0	0	0	0	0	0
3	0	0	0	0	33	0	0	0	0	0	0
4	0	0	0	0	34	0	0	0	0	0	0
5	0	0	0	0	35	0	0	0	0	0	0
6	0	0	0	0	36	0	0	0	0	0	0
7	0	0	0	0	37	0	0	0	0	0	0
8	0	0	0	0	38	0	0	0	0	0	0
9	0	0	0	0	39	0	0	0	0	0	0
10	0	0	0	0	40	0	0	0	0	0	0
11	0	0	0	0	41	0	0	0	0	0	0
12	0	0	0	0	42	0	0	0	0	0	0
13	0	0	0	0	43	0	0	0	0	0	0
14	0	0	0	0	44	0	0	0	0	0	0
15	0	0	0	0	45	0	0	0	0	0	0
16	0	0	0	0	46	0	0	0	0	0	0
17	0	0	0	0	47	0	0	0	0	0	0
18	0	0	0	0	48	0	0	0	0	0	0
19	0	0	0	0	49	0	0	0	0	0	0
20	0	0	0	0	50	0	0	0	0	0	0
21	0	0	0	0	51	0	0	0	0	0	0
22	0	0	0	0	52	0	0	0	0	0	0
23	0	0	0	0	53	0	0	0	0	0	0
24	0	0	0	0	54	0	0	0	0	0	0
25	0	0	0	0	55	0	0	0	0	0	0
26	0	0	0	0	56	0	0	0	0	0	0
27	0	0	0	0	57	0	0	0	0	0	0
28	0	0	0	0	58	0	0	0	0	0	0
29	0	0	0	0	59	0	0	0	0	0	0
30	0	0	0	0	60	0	0	0	0	0	0

AVERAGE OPACITY FOR HIGHEST PERIOD 0 NUMBER OF READINGS ABOVE 0% WERE 0

RANGE OF OPACITY READINGS MINIMUM 0 MAXIMUM 0

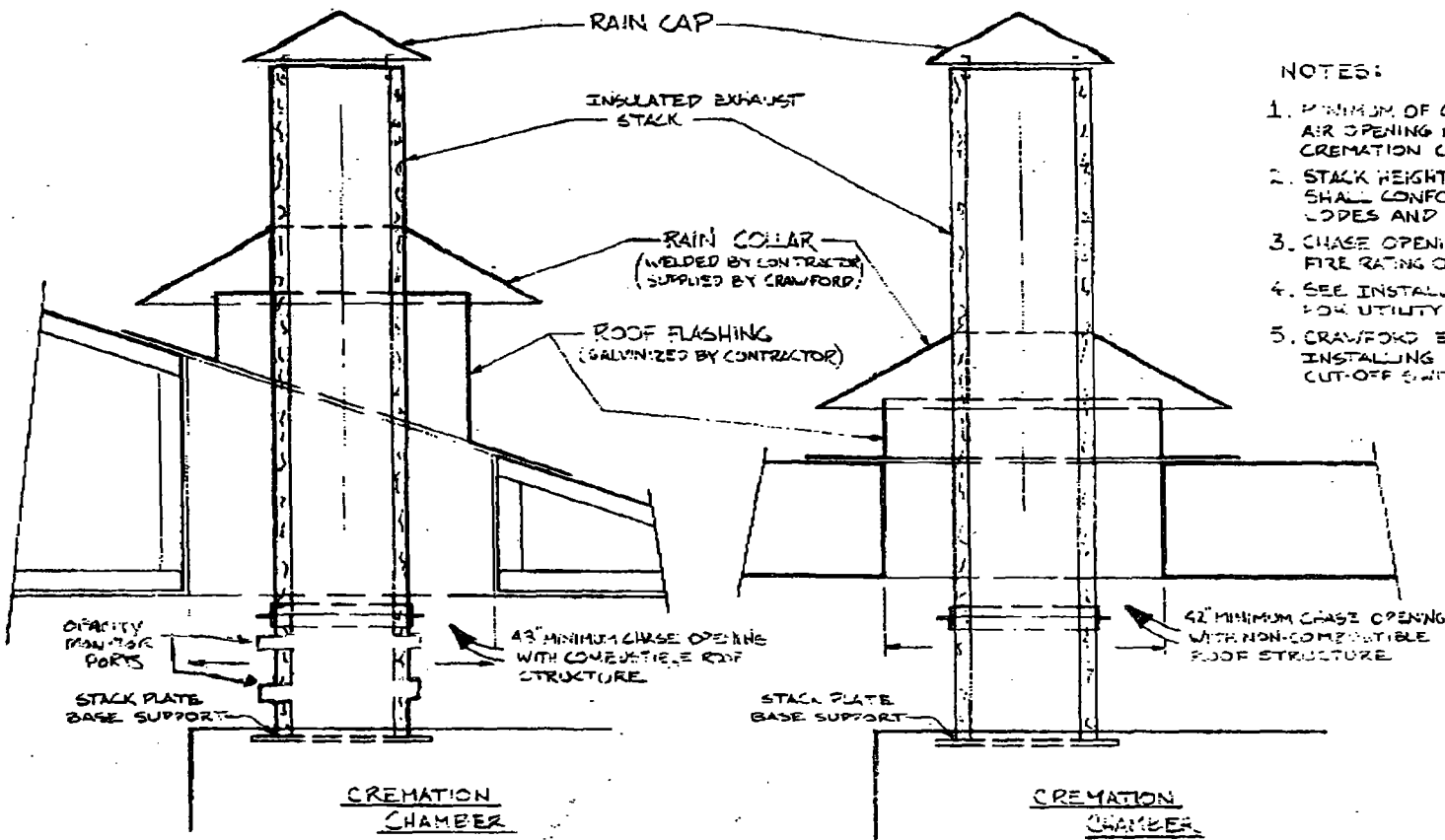
OBSERVER'S NAME (PRINT)
 Stephen C. Webb

OBSERVER'S SIGNATURE DATE 8-4-05

ORGANIZATION Coastal Air Consulting, Inc.

CERTIFIED BY Whitlow Enterprises DATE 7-13-05

VERIFIED BY DATE



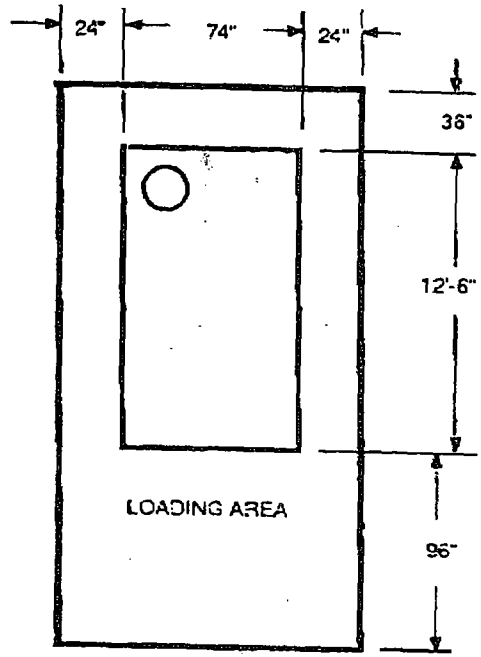
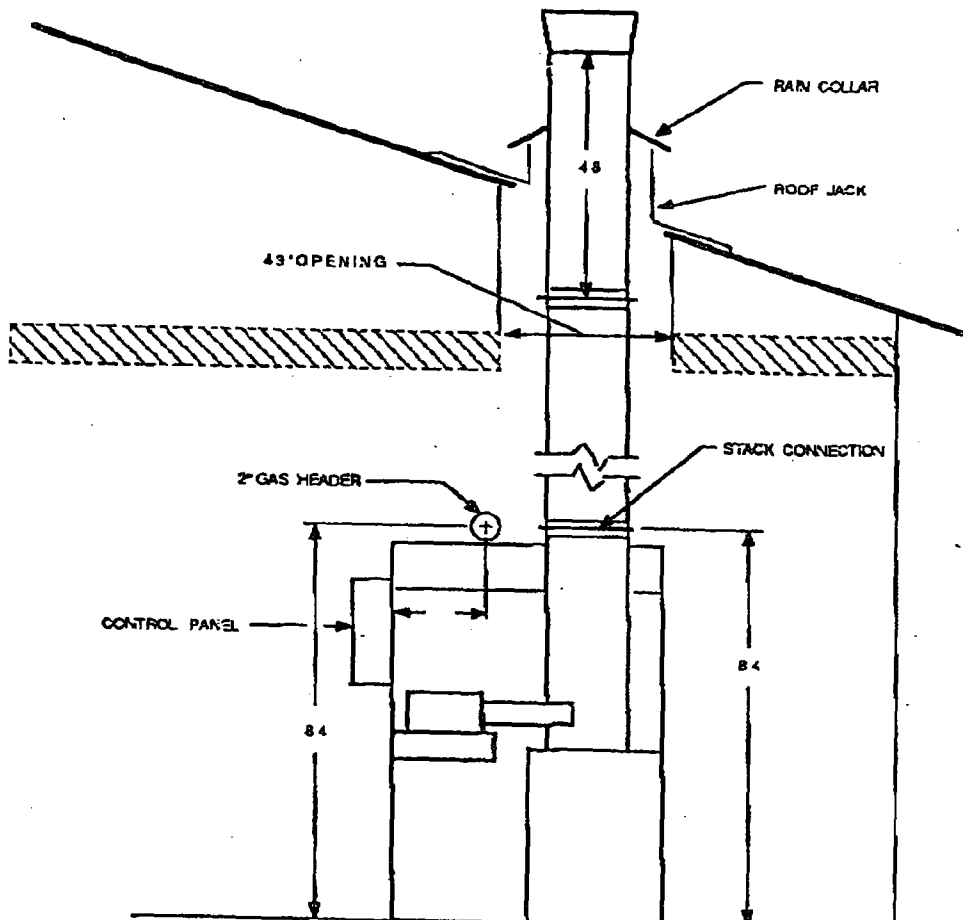
NOTES:

1. MINIMUM OF ONE 2" X 2" MAKE-UP AIR OPENING IS REQUIRED FOR EACH CREMATION CHAMBER.
2. STACK HEIGHT AND STACK SUPPORT SHALL CONFORM TO APPLICABLE CODES AND STANDARDS.
3. CHASE OPENING SHALL HAVE TYPICAL FIRE RATING ON COMBUSTIBLE ROOFS.
4. SEE INSTALLATION INSTRUCTIONS FOR UTILITY SPECIFICATIONS.
5. CRAWFORD ENGINEERING SUGGESTS INSTALLING A ELECTRICAL SAFETY CUT-OFF SWITCH IN CHAMBER ROOM.

SUGGESTED ROOF PENETRATION
COMBUSTIBLE (TYP)

SUGGESTED ROOF PENETRATION
NON-COMBUSTIBLE (TYP)

STACK INSTALLATION		
Scale: 7/2	Approved:	Drawn by:
Date: 2/27/05		
CRAWFORD EQUIPMENT & ENGINEERING		
Drawing Number:		C-2



NOTES : Per Underwriters Lab., Inc.; Minimum clearances to combustibles as follows:

- sides 24"
- rear 36"
- top 18"
- stack 8"

PROPRIETARY INFORMATION

floor - noncombustible - load bearing to support 24,000 lbs.

* CONSULT LOCAL BUILDING CODES AND ORDINANCES FOR ANY RESTRICTIONS WHICH MAY APPLY

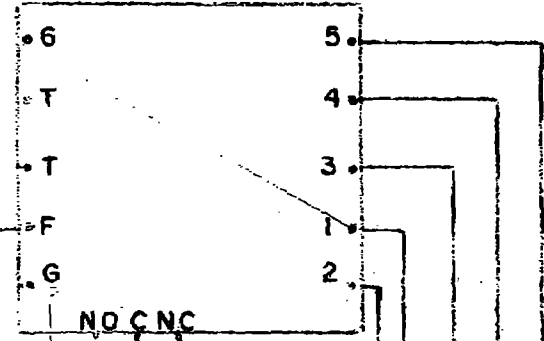
THIS INFORMATION SHALL NOT BE REPRODUCED, COPIED OR TRANSMITTED TO ANY PARTY WITHOUT THE WRITTEN CONSENT OF CRAWFORD EQUIPMENT & ENGINEERING & ALL DRAWINGS ARE THE PROPERTY OF CRAWFORD EQUIPMENT & ENGINEERING CO., INC.

MINIMAL FLOOR PLAN CLEARANCES

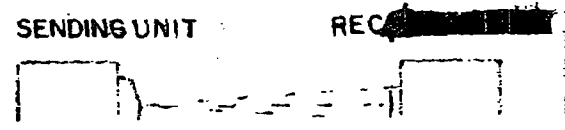
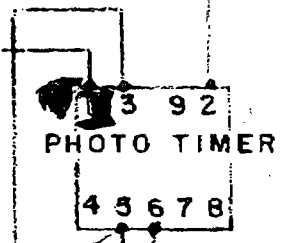
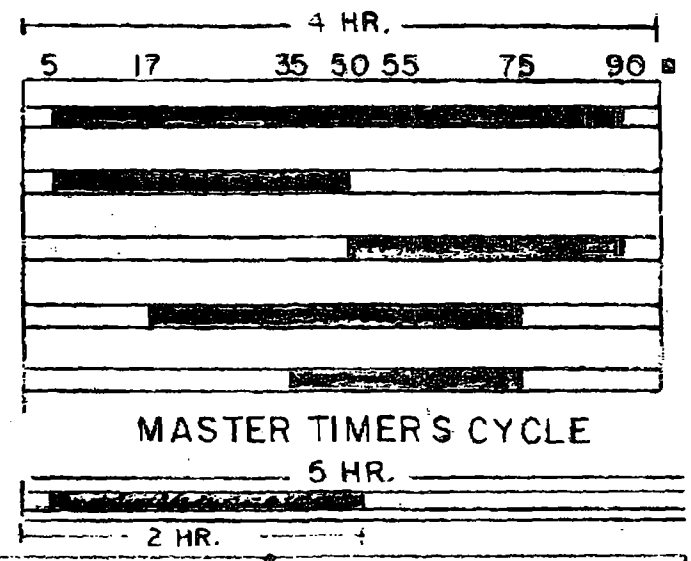
CRAWFORD EQUIPMENT AND ENGINEERING CO., INC.		
C-1000P STACK INSTALLATION		
DATE: 5/88	BY: SDK	C-5

CRAWFORD EQUIPMENT & ENGINEERING

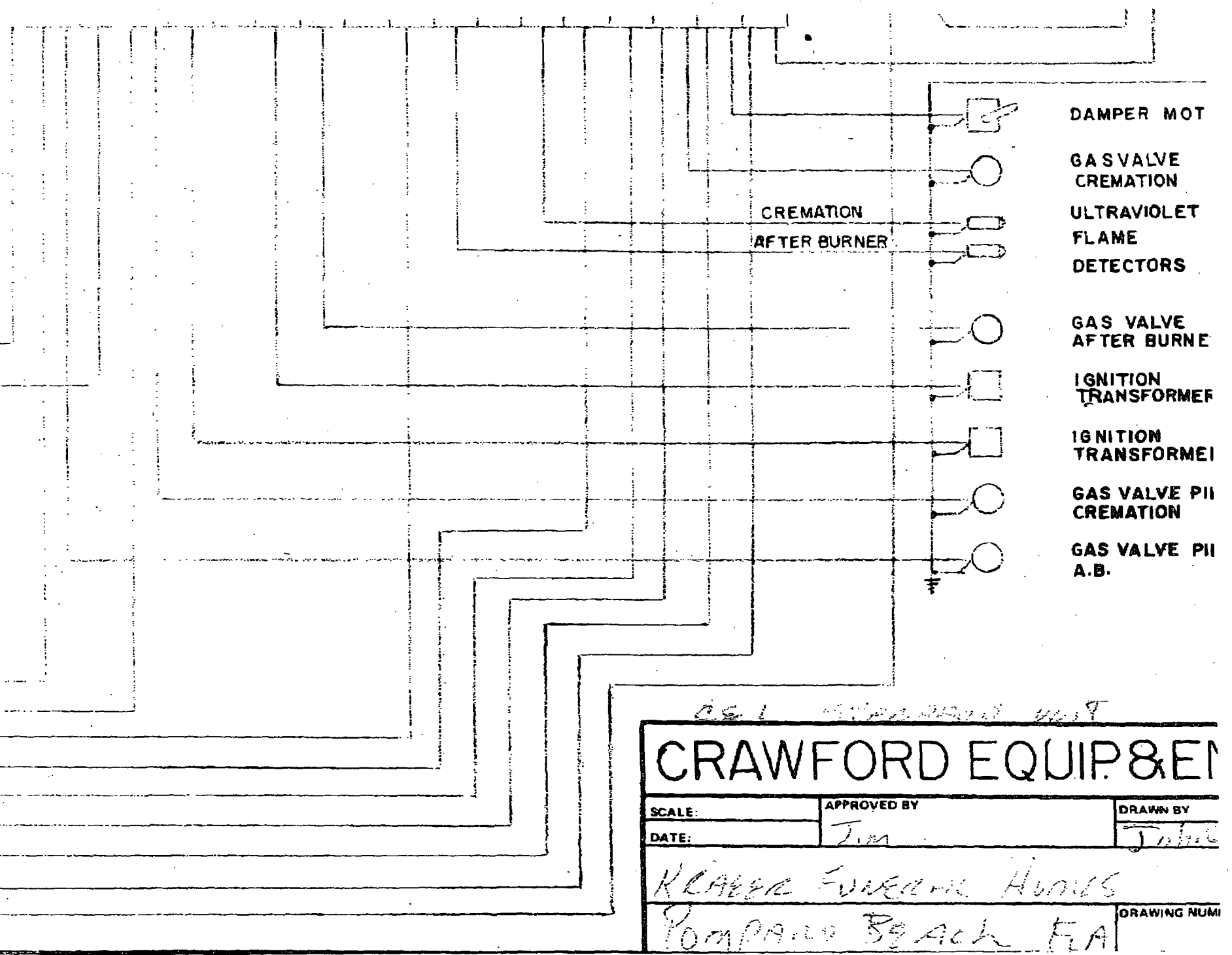
HONEYWELL R890G



- BLOWER
- AIR NOZZLES
- AIR JETS
- IGNITION
- CREMATION
- AFTER BURNER



No. 3394 P. 4
 Nov. 5. 2004 1:54PM Crawford Industrial Group, LLC



DAMPER MOT

GAS VALVE
CREMATION

CREMATION
AFTER BURNER

ULTRAVIOLET
FLAME
DETECTORS

GAS VALVE
AFTER BURNE

IGNITION
TRANSFORMER

IGNITION
TRANSFORMER

GAS VALVE PII
CREMATION

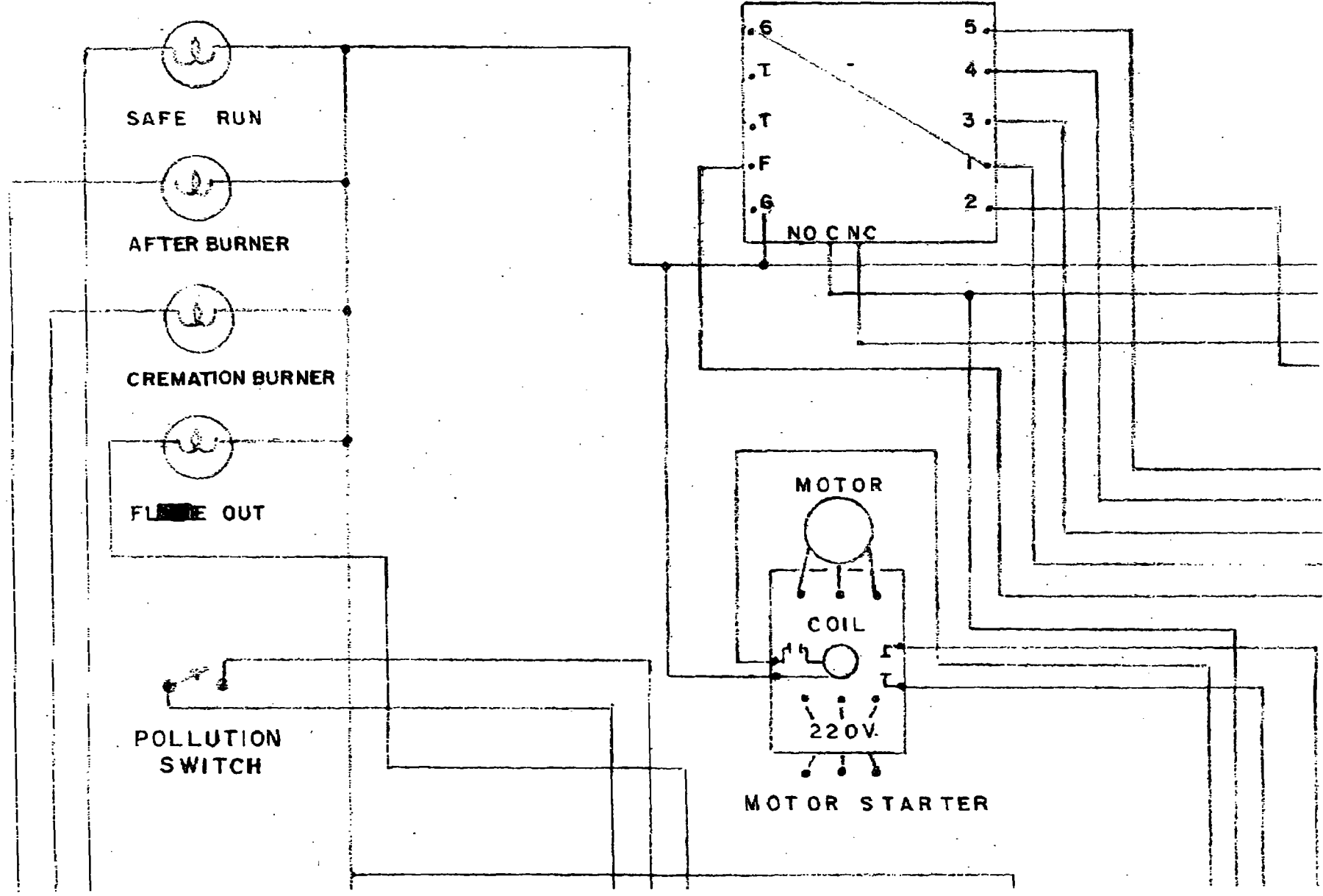
GAS VALVE PII
A.B.

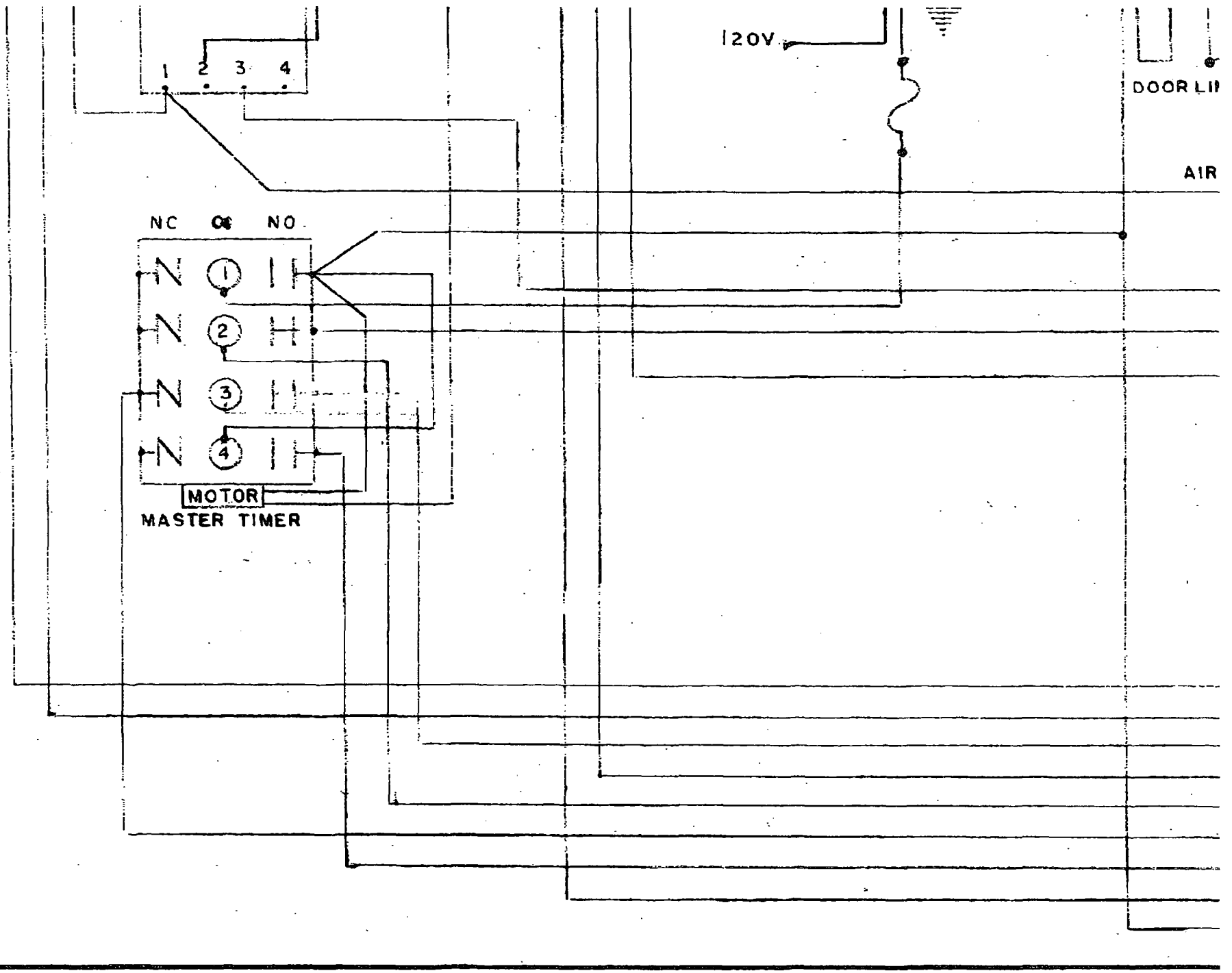
051 10/20/04 4087

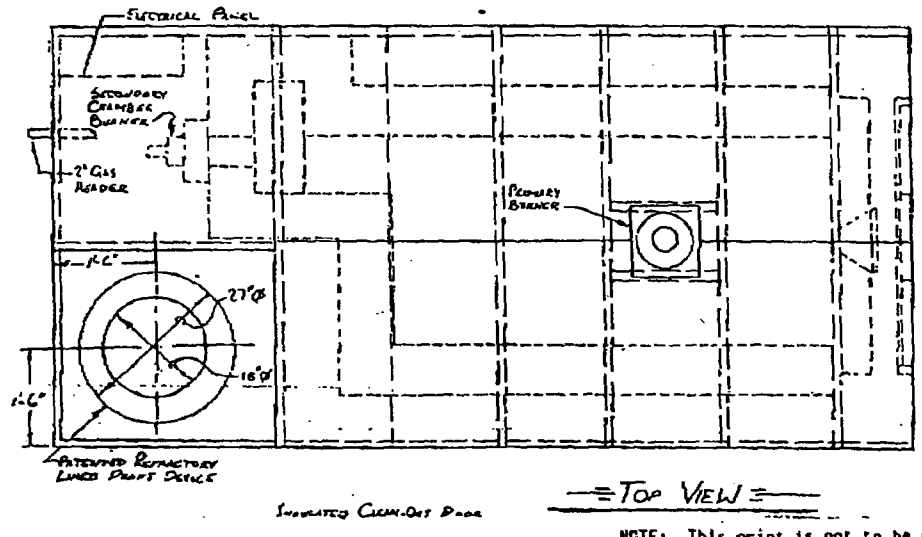
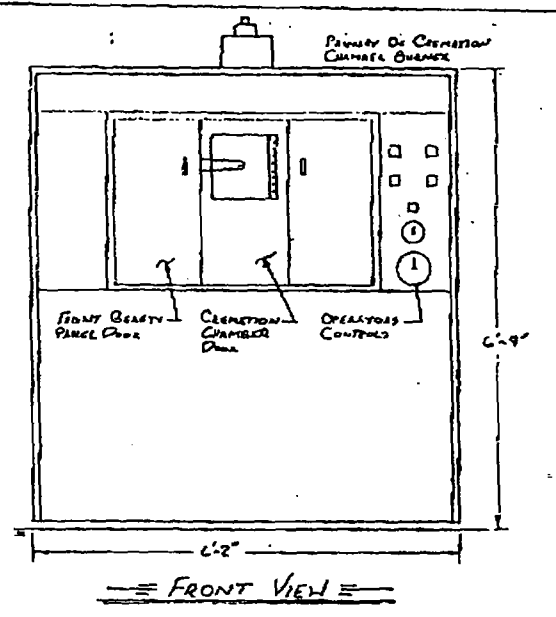
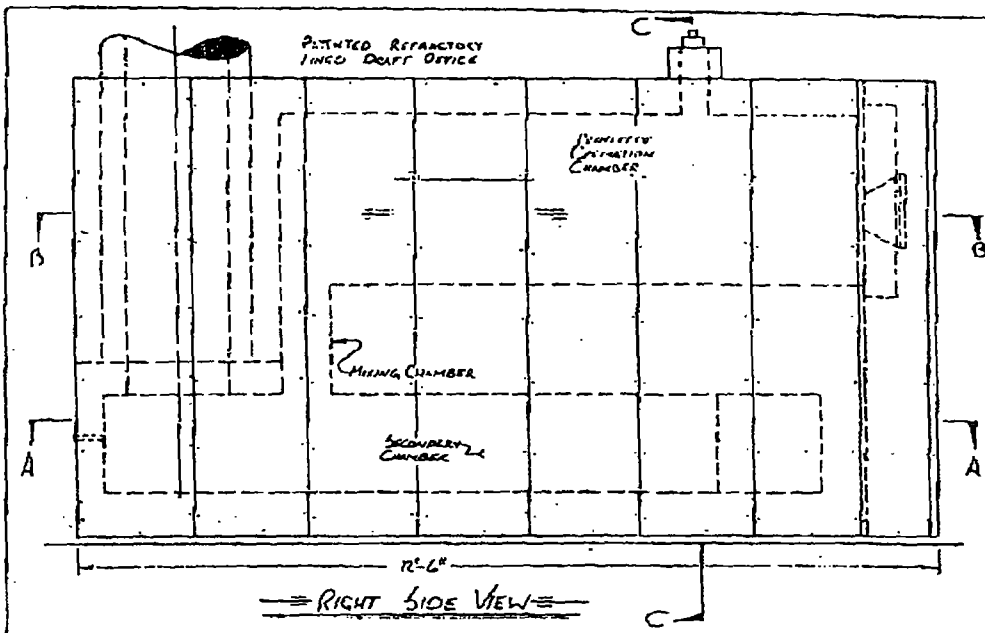
CRAWFORD EQUIP. & EN

SCALE:	APPROVED BY	DRAWN BY
DATE:	<i>Jim</i>	<i>Julie</i>
<i>NEAER FURNACE HOODS</i>		
<i>POMPANO BEACH FLA</i>		DRAWING NUM

HONEYWELL R 8 9 0 6







NOTE:
CLEARANCE:
 OVERHEAD CLEARANCE 8\"/>

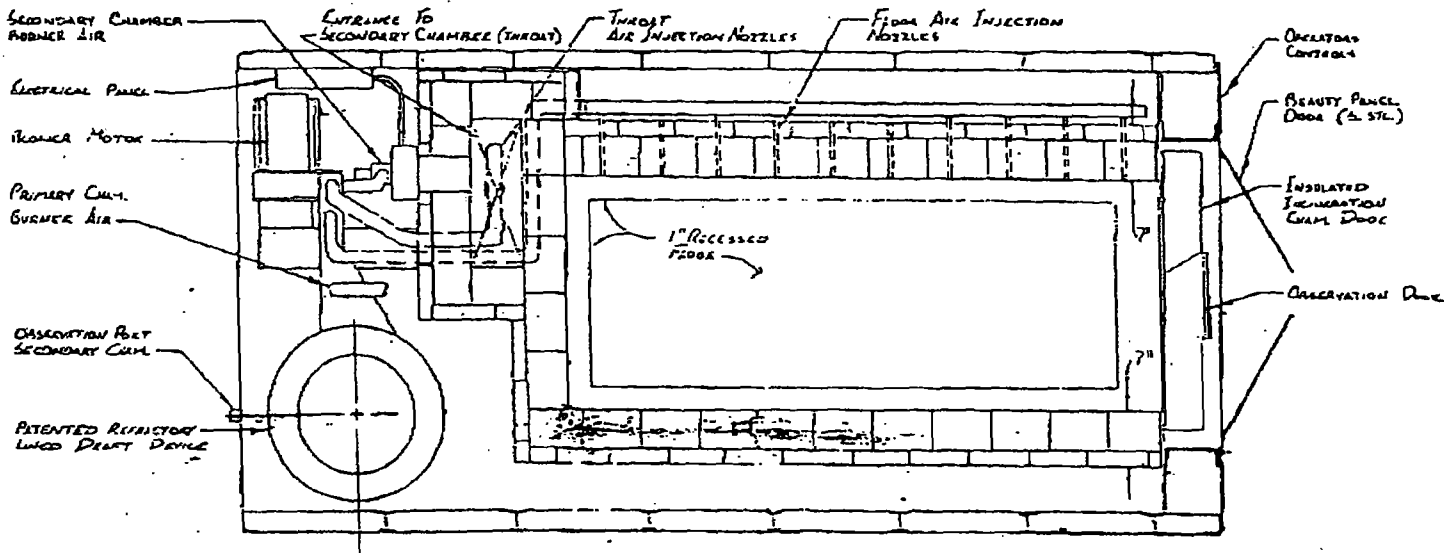
ELECTRICAL:
 CONTROL CIRCUIT - 110V, 10AMPS
 BLOWER - 220/990, 230/140V, 3Ø, 20A

COMBUSTION AIR:
 MINIMUM ONE 21x21\"/>

GAS REQUIREMENTS:
 NATURAL GAS - 1\"/>

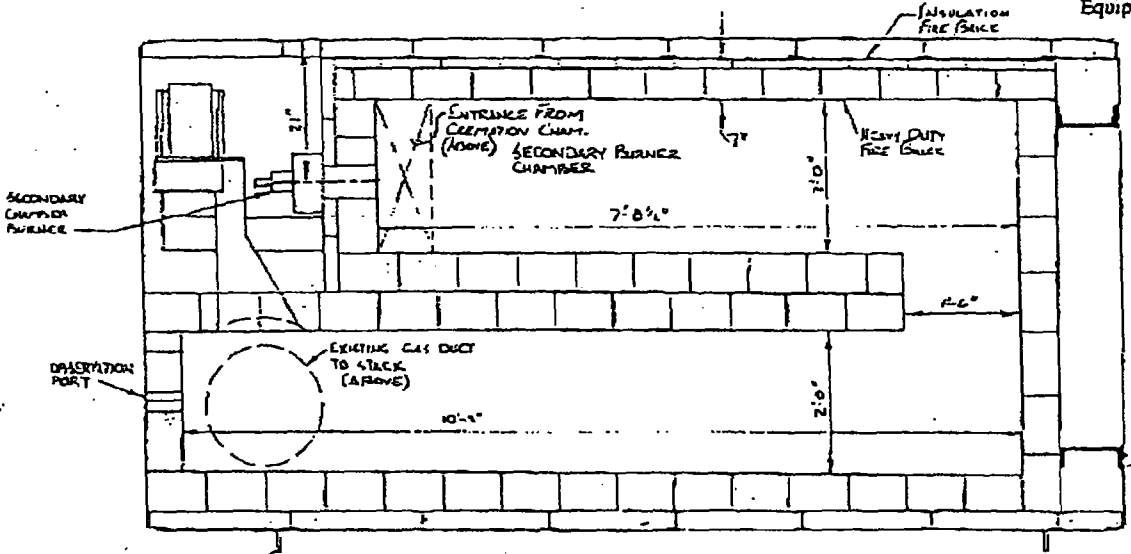
CRAWFORD CREMATION CHAMBER	
NET TO SCALE	LIST M
CRAWFORD EQUIPMENT & ENGINEERING CO. P.O. BOX 12529, GELAND, PA.	
MODEL C1000	8100001

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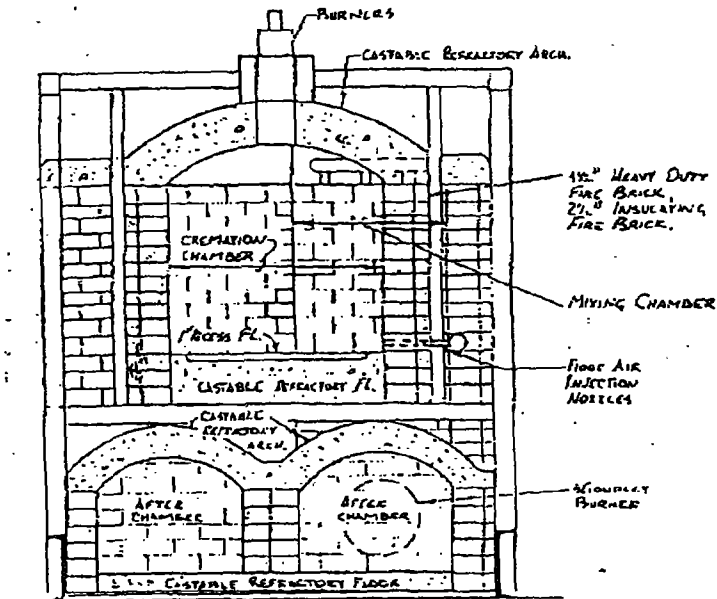
SECTION 'BB'

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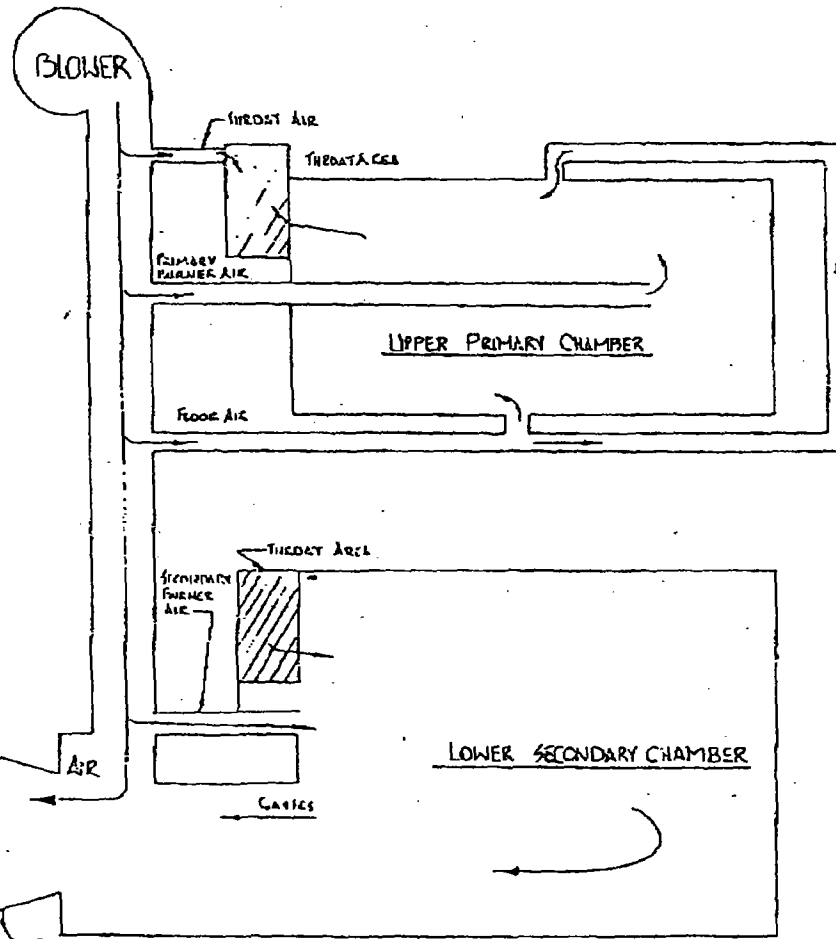


SECTION 'AA'

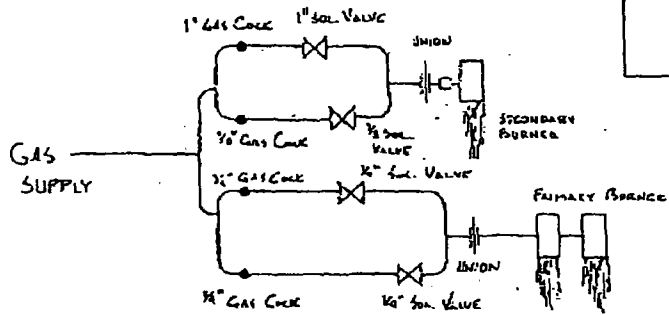
Crawford Petroleum/Heat Industrial Group			
NOT TO SCALE	UNITS / LINE	SCALE	R-11 M
CRAWFORD EQUIPMENT & ENGINEERING, CA		ORLANDO, FL	
P.O. BOX 13243			
MODEL C1000			BL00021



SECTION 'CC'



FLOW SCHEMATIC



GAS FLOW DIAGRAM

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SECTION, GAS & AIR FLOW SCHEMATIC	
NOT TO SCALE	2011 M
CRAWFORD EQUIPMENT & ENGINEERING CO. PO. BOX 13243 ORLANDO FL.	
MODEL C1000	DATE 8/6/00DSP



December 9, 2008

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

Re: General Permit Renewal Application
Owner: Seawinds real Estate Company, LLC
Seawinds Funeral Home/Seawinds Crematory
Source ID:1110117
St. Lucie County

To whom it may Concern:

Enclosed are four (4) copies 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

A handwritten signature in black ink, appearing to read 'Luis Llorens', is written over a set of horizontal lines.

Luis Llorens
President/Project Manager

Enclosures: Four (4) Applications and check

RECEIVED
DEC 17 2008
Bureau of Air Monitoring
& Mobile Sources

Luis

From: Dibble, Dickson [mailto:Dickson.Dibble@dep.state.fl.us]
Sent: Friday, December 19, 2008 10:01 AM
To: AI@CFL.RR.COM
Cc: Bowman, Sandy
Subject: AIRS ID# 1110117, Seawinds Funeral Home/Seawinds Crematory, 805 Barrel Ave., Ft. Pierce, FL 34982

Dear Mr. Luis Llorens,

It was a pleasure to speak with you today regarding the submission of one original copy rather than multiple copies of the Air General Permit Registration Form.

On a different note and with regard to the subject item facility and the current renewal application, in order to complete the application and review process for the subject item facility, I am requesting that a more complete and detailed description of the facility be provided on Page 10 of the form. I will refer to a comment on the form as entered by the preparer where it reads, "**Equipment specifications and drawings were submitted along with the construction permit application.**" According to my records the Air Construction Permit Application was submitted in November of 2004.

Each application is specific in the request (see cut-n-paste below) for a description of all crematory operations and equipment information in sufficient detail to demonstrate the facility's eligibility for the use of the Air General Permit, regardless of information submitted with previous applications.

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

Thank you for your assistance in helping to complete this application process. If you have any questions or concerns please call or e-mail.

Have a great day!

Dickson E. Dibble

Dickson E. Dibble, ES III

FL Dept of Environmental Protection
Div. of Air Resource Management
Bureau of Air Monitoring & Mobile Sources
Air General Permit Program
Tel. (850) 921-9586
FAX (850) 922-6979
ICG-#345

Dickson.Dibble@dep.state.fl.us



12/31/2008

Please note: Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

Dibble, Dickson

From: Luis Llorens [ai@cfl.rr.com]
Sent: Tuesday, January 06, 2009 9:48 AM
To: Dibble, Dickson
Subject: SEAWINDS

Dear Dickson:

Today I mailed you the attachments from the original application for Seawinds Crematory.

Respectfully,
AI ENVIRONMENTAL CONSULTING SERVICES, INC.

Luis Llorens

Dibble, Dickson

From: Dibble, Dickson
Sent: Wednesday, December 31, 2008 7:14 AM
To: 'ai@cfl.rr.com'
Cc: Bowman, Sandy
Subject: RE: AIRS ID# 1110117, Seawinds Funeral Home/Seawinds Crematory, 805 Barrel Ave., Ft. Pierce, FL 34982

Tracking: Recipient Delivery
 'ai@cfl.rr.com'
 Bowman, Sandy Delivered: 12/31/2008 7:14 AM

Mr. Llorens,

Yes. The data is required regardless of whether or not it is a new facility, a renewal, or a change of ownership.

Thank you for your assistance with providing the information requested.

Have a great day and a Happy New Year also!

Dickson E. Dibble

Dickson E. Dibble, ES III

FL Dept of Environmental Protection
 Div. of Air Resource Management
 Bureau of Air Monitoring & Mobile Sources
 Air General Permit Program
 Tel. (850) 921-9586
 FAX (850) 922-6979
 ICG-#345

Dickson.Dibble@dep.state.fl.us



Please note: Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure

From: Luis Llorens [mailto:ai@cfl.rr.com]
Sent: Wednesday, December 24, 2008 9:06 AM
To: Dibble, Dickson
Subject: RE: AIRS ID# 1110117, Seawinds Funeral Home/Seawinds Crematory, 805 Barrel Ave., Ft. Pierce, FL 34982

Dear Dickson:

This is a renewal of a general permit. Do you still need the data? Please let me know and have a happy holiday!

12/31/2008

Wise, Jane

From: Wise, Jane
Sent: Wednesday, January 14, 2009 3:39 PM
To: Hoefert, Lee; Anderson, Lennon
Cc: Veazey, Sandra; Bowman, Sandy
Subject: Recently Received AG Registrations (This is ONE document)
Attachments: 1110117-003.pdf; 1110117-003 (2).pdf; 1110117-003 (3).pdf; 1110117-003 (4).pdf; 1110117-003 (5).pdf; 1110117-003 (6).pdf; 1110117-003 (7).pdf; 1110117-003 (8).pdf; 1110117-003 (9).pdf

The attached documents represent recently received air general permit registration forms for your area. As requested, each form has been scanned and attached for your office use. These registrations are currently in the 30-day review cycle. We request that any updates to EU information be made *after* the 30-day review cycle ends. The actual receipt date and other facility information may be obtained in GPCI.

The complete scanned file for each facility will be available in ADH Search after the 30-day review cycle.

If you have any questions or comments, please contact Dick Dibble at 850/921-9586 or by e-mail at dickson_dibble@dep.state.fl.us or Sandy Bowman at 850/921-9583 or by e-mail at sandy.bowman@dep.state.fl.us

1/14/2009

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From: /Expéditeur:

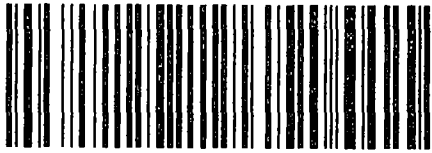
Cox-Gifford-Seawinds Funeral Home
1950 20th Street
Vero Beach, FL 32960

To: /Destinataire:

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

Country of Destination: /Pays de destination:





7007 0220 0001 7120 1880

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stamps.com

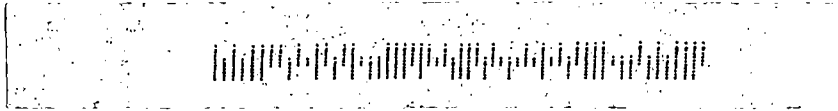


062S00065071817

JAN 08 2009

RECEIVED

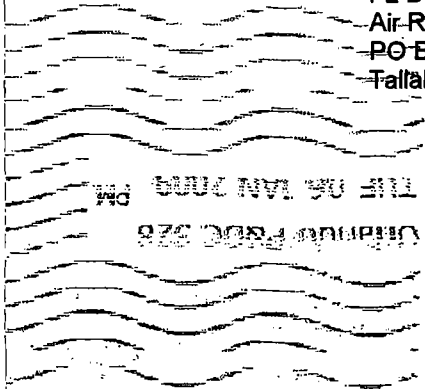
5500



Luis Llorens
AI Environmental Consulting Services
370 S. North Lake Blvd., Suite 1004
Altamonte Springs, FL 32701



Dickson E. Dibble
FL Dept of Environmental Protection
Air-Resources Management/FDEP Receipts
PO Box 3070
Tallahassee FL 32315-3070



THE 06 JAN 2009
JAN 06 2009

Florida Department of Environmental Protection
 Cash Receiving Application (CRA)
 Cashlisting by Deposit #: 291312 thru 291312
 Printed: 12/16/2008 9:23:20 AM - Page 17

Cashlisting: 72684 Cashlist Area: 3755 Description: DIV OF AIR RESOURCES MGMT.
 Deposit No: 291312 Date Deposited: 12/15/2008 Contact: E. WALKER

Object	Transmittal	Dep DDN	Receipt Number	Pre-Numbered Receipt	Name	Check Number	Payment Amount	Reference Account	Payment Number	Remittance Number	Fund	Grant	
002272	51945	489674	647272		COX-GIFFORD SEAWINDS FUNERAL H	15563	\$100.00	1110117-003 12/19/2008-HC	914740	807235	PFTF		
Object Code 002272 Subtotal:							\$100.00						
002278	51943	489650	647243		DECON	42528	\$200.00	51474	914812	807206	APCTF		
	51943	489655	647248		SIMPSON ENVIRONMENTAL SERVICES	018385	\$600.00	51584	914858	807211	APCTF		
	51943	489655	647248		SIMPSON ENVIRONMENTAL SERVICES	018385	\$1,000.00	51526	914857	807211	APCTF		
	51949	489750	647354		CASON ENVIRONMENTAL & DEMOLITI	2225	\$100.00	51478	914783	807317	APCTF		
	51949	489752	647356		SUNRISE SYSTEMS OF BREVARD, IN	038193	\$200.00	51323	914785	807319	APCTF		
Object Code 002278 Subtotal:							\$2,100.00						
Cashlisting 72684 Total:							\$2,200.00						