

RECEIVED

ANIMAL CREMATORY  
AIR GENERAL PERMIT REGISTRATION FORM

SEP 23 2009

Part II. Notification to Permitting Office

Bureau of Air Monitoring  
& Mobile Sources

(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(4)(c), F.A.C. (\$100 as of the effective date of this form)

0112720-001

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.)

LINDA MORGAN

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.)

Paws & Cherish Pet Cremations LLLC

Sole owner of Company  
& Personal owner of Equipment

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

Street Address: 4340 NW 19th AVE BOY E

City: Deerfield Beach County: Broward

Zip Code: 33064

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

December 2009

**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:

LINDA MORGAN / President / owner

Owner/Authorized Representative Mailing Address

Organization/Firm: Paws & Cherish Pet Cremations LLC / LINDA MORGAN

Street Address: 4340 NW 19th Ave

City:

Deerfield Beach

County:

Broward

Zip Code:

33064

Owner/Authorized Representative Telephone Numbers

Telephone:

Fax:

Cell phone (optional):

954-695-8156 - only number at this time.

**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):

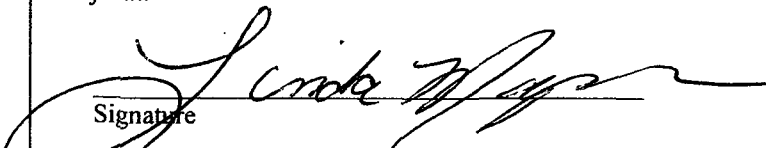
**Owner/Authorized Representative Statement**

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

9/18/09

**Design Calculations**

If this is an initial registration for a proposed new animal 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 animal crematory unit(s).

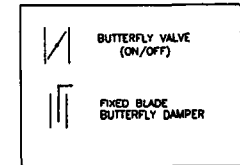
**Description of Facility**

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.

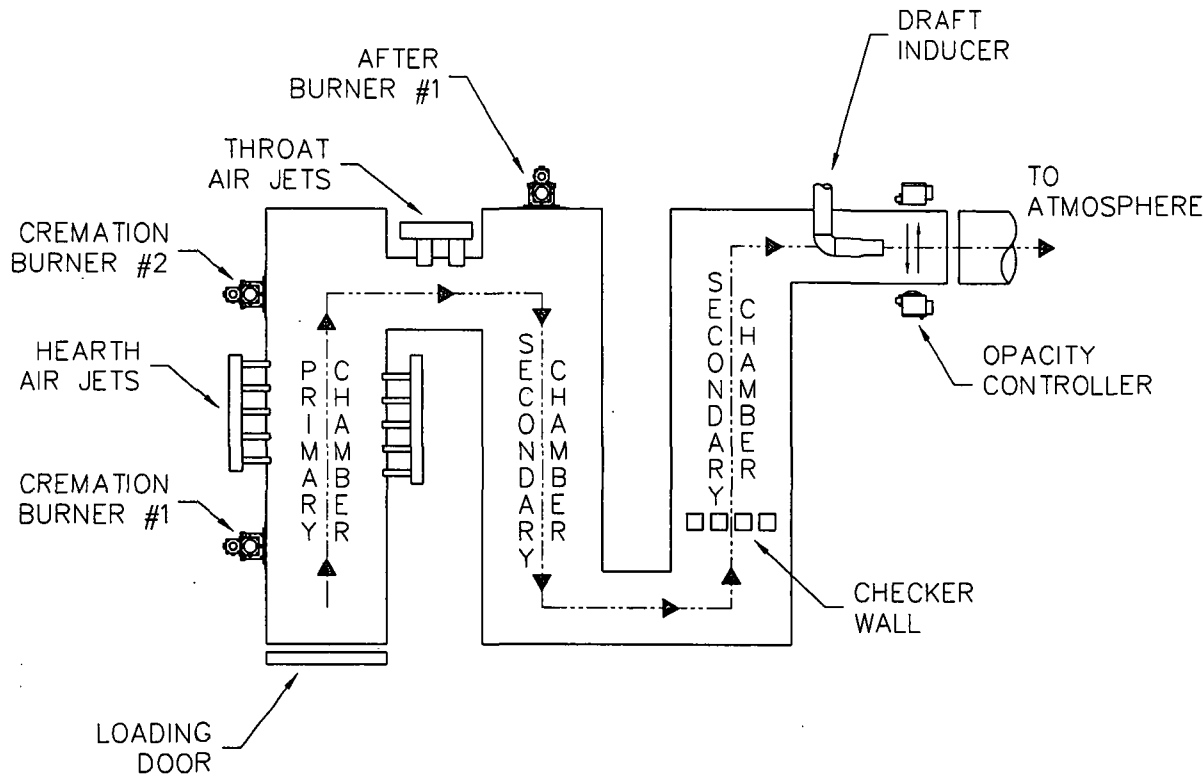
Installation of four Matthews Cremation Division animal cremation units.

(2) Power Pak II and (2) Power Pak Jr - NG FIRED PER TELECON ON  
9/25/09 W/ QAR LINDA MORGAN.  
D. Little

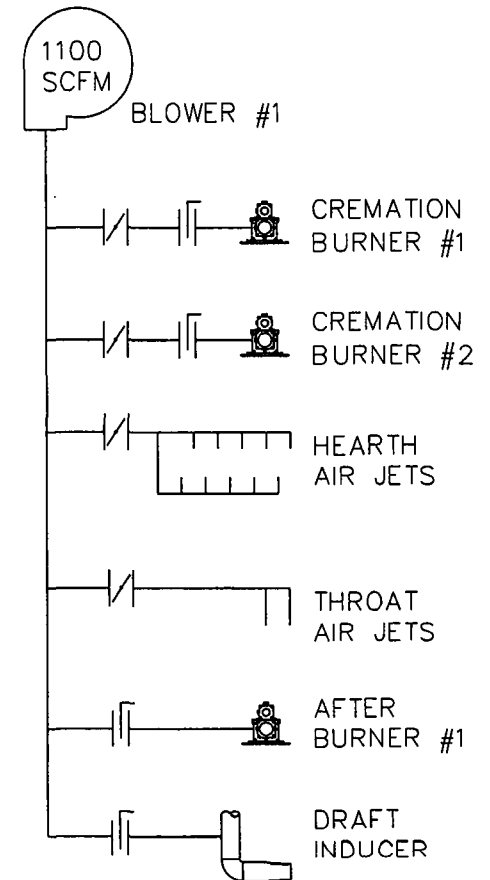
LEGEND OF SYMBOLS




FLOW DIAGRAM



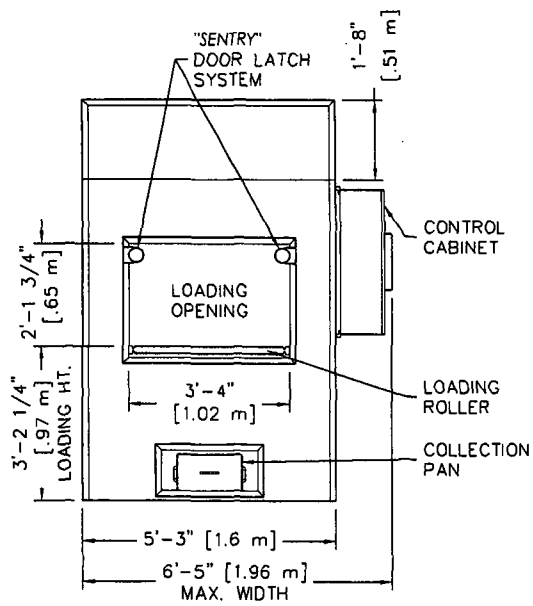
AIR SCHEMATIC



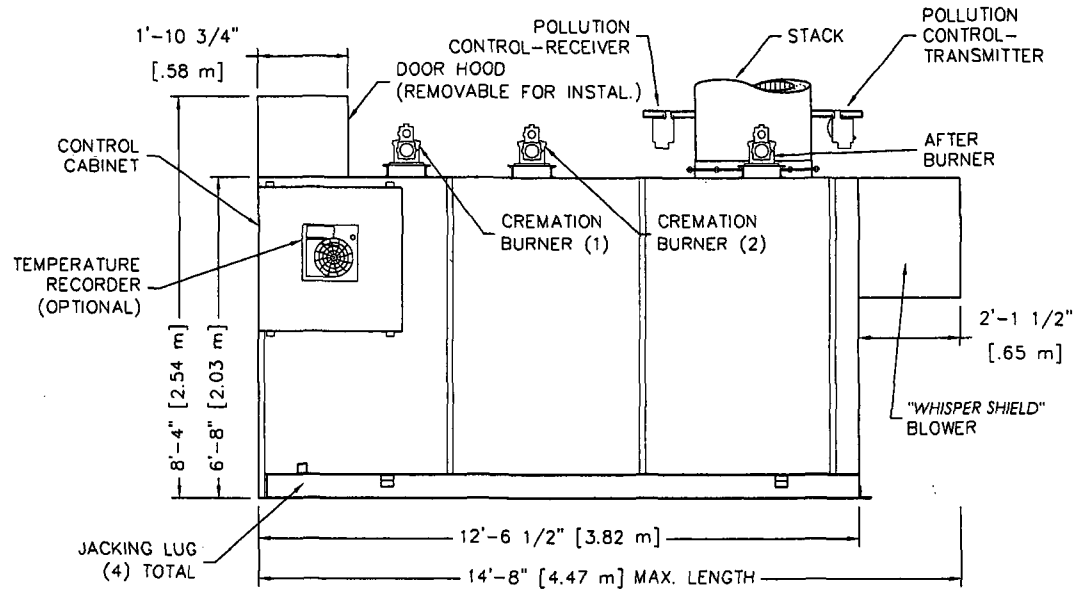

 2045 Sprint Boulevard  
 Apopka, Florida 32703  
 USA

POWER PAK II Pet  
 FLOW DIAGRAM  
 & AIR SCHEMATIC

|           |                         |             |         |
|-----------|-------------------------|-------------|---------|
| DATE:     | 08-05-05                | SCALE:      | 1/4"=1' |
| DRAWN:    | JG                      | PLOT SCALE: | 1:48    |
| APRVD:    |                         | SHEET:      | 1 OF: 1 |
| DWG FILE: | PPII-PetFlowDiaAirSchem |             |         |
| DWG #:    | 0000644                 |             |         |



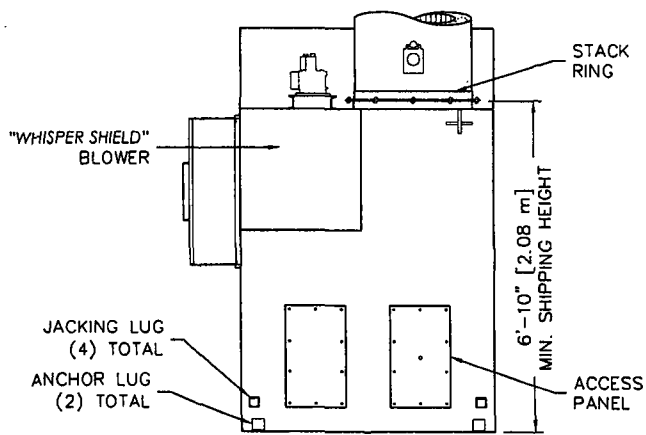
FRONT  
ELEVATION



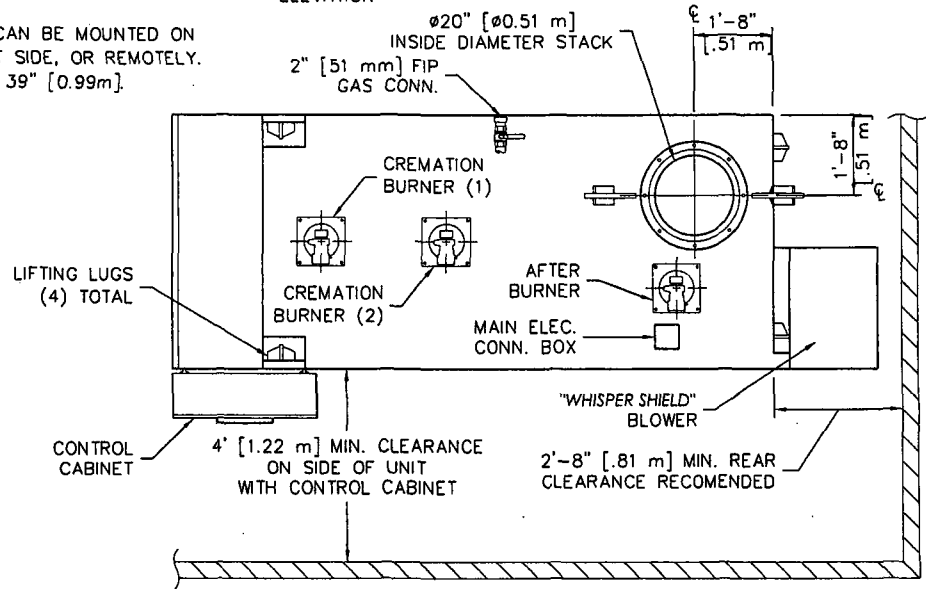
RIGHT SIDE  
ELEVATION

NOTES:

- 1) CONTROL CABINET CAN BE MOUNTED ON THE LEFT OR RIGHT SIDE, OR REMOTELY.
- 2) CHAMBER WIDTH IS 39" [0.99m].



REAR  
ELEVATION



PLAN  
VIEW



2045 Sprint Boulevard  
Apopka, Florida 32703  
USA

POWER-PAK II (PET)

PLAN & ELEVATIONS INCL: CLEARANCES,  
REQUIREMENTS & RECOMMENDATIONS

|  |                  |
|--|------------------|
| DATE: 08-03-09                           | SCALE: 1/4"=1'   |
| DRAWN: JG                                | PLOT SCALE: 1:48 |
| APRVD:                                   | SHEET: 1 OF: 1   |
| DWG FILE: PPII-Pet-MarketingPlanElevSIR3 |                  |
| DWG #:                                   | 0000139          |

### CREMATOR CLEARANCES

|               | RECOMMENDED       | MINIMUM            |
|---------------|-------------------|--------------------|
| TOP: ②        | 2 FEET [610 mm]   | 6 INCHES [152 mm]  |
| CABINET SIDE: | 4 FEET [1.22 m]   | 4 FEET [1.22 m]    |
| OTHER SIDE:   | 2 FEET [610 mm]   | 6 INCHES [152 mm]  |
| FRONT:        | 9 FEET [2.74 m]   | 8 FEET [2.44 m]    |
| REAR:         | 3 FEET [0.91 m]   | 32 INCHES [812 mm] |
| STACK:        | 6 INCHES [152 mm] | 6 INCHES [152 mm]  |

- FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- FROM HIGHEST POINT ON UNIT.
- CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).
- REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW, SHEET 1).

### CREMATOR REQUIREMENTS

**FUEL:** A PRESSURE REGULATOR ADJUSTABLE TO 7" [178 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

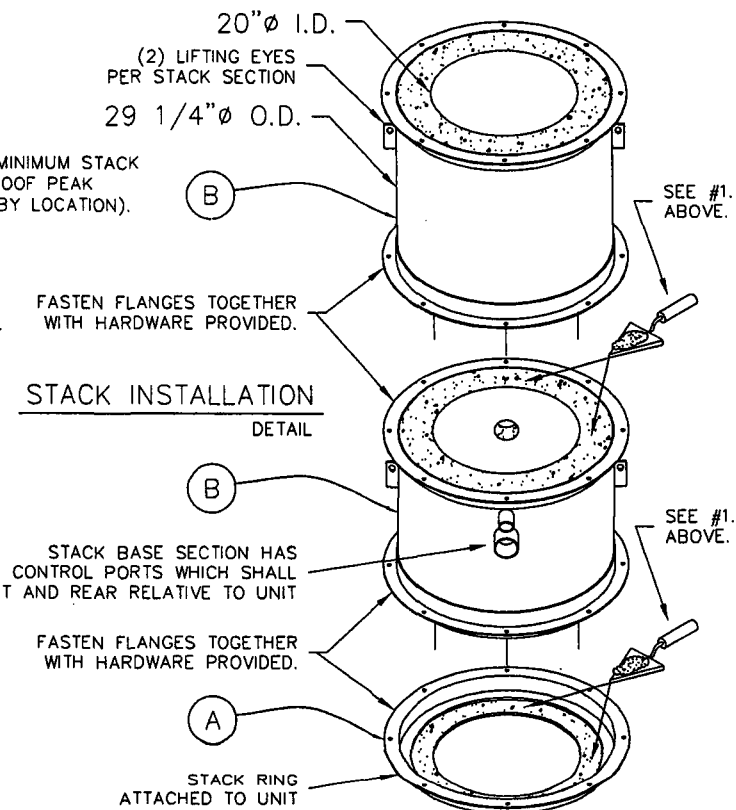
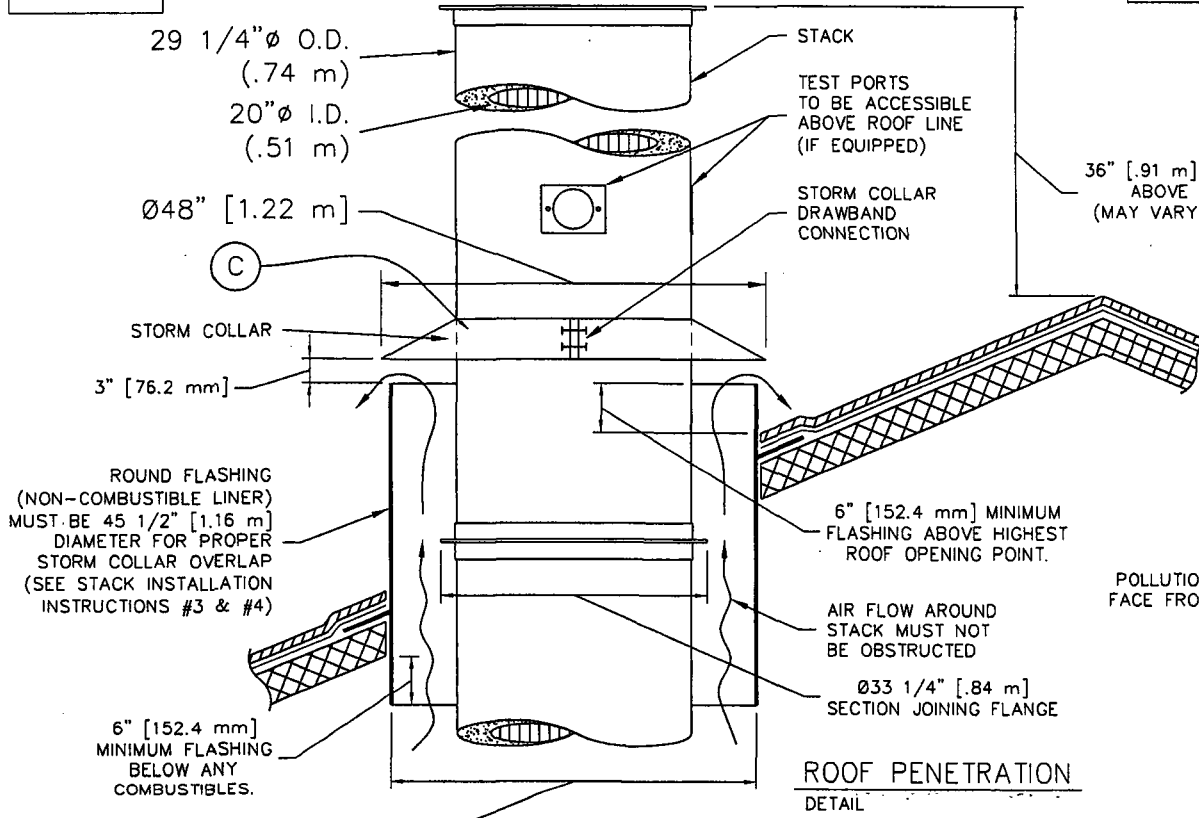
**CAPACITY:** RANGES FROM 2.0 TO 4.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJOULES/HR] DEPENDING UPON AMOUNT OF BURNERS.

**ELECTRICAL:** 230 VOLT, 3Ø, (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT, 1 Ø, (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

**AIR:** LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

### STACK INSTALLATION INSTRUCTIONS

- APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
- INSTALL STORM COLLAR ON STACK, 3" [72 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).
- STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
- RAIN CAP NOT REQUIRED.



**Matthews**  
CREMATION DIVISION  
2045 Sprint Boulevard  
Apopka, Florida 32703  
USA

POWER-PAK II (PET)  
STACK DETAILS, CLEARANCES &  
INSTALLATION INSTRUCTIONS.  
REFRACTORY STACK DETAIL

|           |                                |             |         |
|-----------|--------------------------------|-------------|---------|
| DATE:     | 10-26-06                       | SCALE:      | 1/2"=1' |
| DRAWN:    | JG                             | PLOT SCALE: | 1:24    |
| APRVD:    |                                | SHEET:      | 2 OF: 2 |
| DWG FILE: | PPII-Pet-MarketingStackRefS2R4 |             |         |
| DWG #:    | 0000139                        |             |         |

## SPECIFICATIONS- Power-Pak II Pet

1. Equipment Type ..... Matthews Cremation Division; Power-Pak II
  - A. Model No. .... IE43-PPII
  - B. Underwriters Laboratories Listing and File No. ... Listing No. 87E8; File No. MH14647
  
2. Dimensions
  - A. Footprint ..... 12' – 6 ½" x 6' – 8"
  - B. Maximum Length ..... 14' - 6½"
  - C. Maximum Width ..... 6' -5"
  - D. Maximum Height ..... 8' - 4"
  - E. Chamber Loading Opening ..... 25¾" H x 39" W (into chamber)
  
3. Weight ..... 24,000 lbs.
  
4. Utility/Air Requirements
  - A. Gross Gas Input, Natural or LP Gas ..... 2,700,000 BTU/hr. max.  
 Running Gas Pressure, Natural Gas ..... 7 inches w.c. or greater  
 Running Gas Pressure, LP Gas ..... 11 inches w.c. or greater
  - B. Electrical Supply ..... 230 volt, 3Ø or 1Ø, 60 hz (other available)
  - C. Air Supply ..... 2,500 cfm
  
5. Incineration Capacity
  - A. Type 4 Material ..... 200 lbs./hr.
  
6. Typical Loading Capacity of Material
  - A. Type 4 Material ..... 400 to 750 lbs.
  
7. Construction and Safety Standards ..... Incineration Institute of America, Underwriters Laboratories
  
8. Steel Structure Construction
  - A. Frame ..... 2" square tubing
  - B. Front/Rear Plates ..... 3/8" plate
  - C. Floor Plates ..... 3/16" plate
  - D. Outer Side Casing ..... 12 gauge plate
  - E. Inner Side Casing ..... 12 gauge plate
  
9. Stack Construction
  - A. Inner Wall ..... 4 ½" insulating firebrick or castable
  - B. Outer Wall ..... 12 gauge plate, type 304 s.s., welded seams
  
10. Draft Nozzle Construction ..... Schedule 40 type 316 s.s. pipe
  
11. Main Chamber Door Construction
  - A. Steel Shell ..... 3/16" steel, welded with reinforcement
  - B. Outer Refractory ..... 1" insulating block
  - C. Inner Refractory ..... 4½" insulating firebrick
  
12. Primary Chamber Wall Construction
  - A. Outer Casing Wall ..... 12 gauge plate

## SPECIFICATIONS- Power-Pak II Pet

- |      |  |  |
|------|--|--|
| B.   | Inner Frame/Air Compartment .....                                  | 2" air compartment   |
| C.   | Inner Casing Wall .....  | 12 gauge plate   |
| D.   | Outer Refractory Wall .....  | 5" insulating block  |
| E.   | Inner Refractory Wall .....  | 4½" firebrick  |
| <br> |  |  |
| 13.  | Secondary Chamber Wall Construction                                |  |
| A.   | Outer Casing Wall .....  | 12 gauge plate   |
| B.   | Inner Frame/Air Compartment .....                                  | 2" air compartment   |
| C.   | Inner Casing Wall .....  | 12 gauge plate   |
| D.   | Outer Refractory Wall .....  | 6" insulating block  |
| E.   | Inner Refractory Wall .....  | 4½" firebrick  |
| <br> |  |  |
| 14.  | Refractory Temperature Ratings                                     |  |
| A.   | Standard Firebrick .....   | 3,100° F.  |
| B.   | Insulating Firebrick.....  | 2,600° F.  |
| C.   | Castable Refractory (Hearth) .....                                 | 2,800° F.  |
| D.   | Castable Refractory .....  | 2,550° F.  |
| E.   | Insulating Block.....  | 1,900° F.  |
| F.   | Bonding Mortar .....   | 3,200° F.  |
| <br> |  |  |
| 15.  | Chamber Volumes (not including external flues, stacks or chimneys) |  |
| A.   | Primary Chamber.....   | 64 cubic feet  |
| B.   | Secondary Chamber .....  | 74 cubic feet  |
| <br> |  |  |
| 16.  | Emission Control Features  |  |
| A.   | Secondary Chamber with Afterburner .....                           | Included   |
| B.   | Opacity Monitor and Controller with Visual and Audible Alarms..... | Included   |
| C.   | Auxiliary Air Control System.....                                  | Included   |
| D.   | Microprocessor Temperature Control System.....                     | Included   |
| <br> |  |  |
| 17.  | Operating Temperatures   |  |
| A.   | Primary Chamber.....   | 1,200° F. - 1,800° F.  |
| B.   | Secondary Chamber .....  | 1,400° F. - 1,800° F. (as required)  |
| <br> |  |  |
| 18.  | Secondary Chamber Retention Time                                   |  |
| A.   | Type 4 Material .....  | > 1 second   |
| <br> |  |  |
| 19.  | Ash Removal .....  | Door functions as a heat shield. Sweep out beneath front door into a hopper that fills a collection pan. |
| <br> |  |  |
| 20.  | Safety Interlocks  |  |
| A.   | High Gas Pressure .....  | Optional   |
| B.   | Low Gas Pressure .....   | Optional   |
| C.   | Blower Air Pressure .....  | Included   |
| D.   | Door Position .....  | Included   |
| E.   | Opacity .....  | Included   |
| F.   | Motor Starter Function .....                                       | Included   |
| G.   | Chamber Temperature .....  | Included   |
| H.   | Motor Overload.....  | Included   |



**SPECIFICATIONS- Power-Pak II Pet**

- I. Flame Quality..... Included
- J. Burner Safe Start..... Included
  
- 22. Burner Description..... The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.
  
- 23. Ultraviolet Flame Detection..... Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors.
  
- 24. Operating Panel Indicating Lights
  - A. Safe Run..... Included
  - B. Door Closed..... Included
  - C. Pollution Alarm..... Included
  - D. Afterburner On (Secondary Burner)..... Included
  - E. Cremation Burners On..... Included
  - F. Low Fire Cremation Burner On..... Included
  - G. Afterburner (Secondary Burner) Reset..... Included
  - H. Cremation Burners Reset..... Included
  - I. Hearth Air..... Included
  - J. Throat Air Off..... Included
  
- 25. Automatic Timer Functions
  - A. Master Cycle..... Included
  - B. Afterburner (Secondary Burner)..... Included
  - C. Cremation Burners..... Included
  - D. Low Fire Cremation Burner..... Included
  - E. Hearth Air..... Included
  - F. Throat Air..... Included
  - G. Pollution Monitoring..... Included
  - H. Afterburner (Secondary Burner) Prepurge..... Included
  - I. Cremation Burner Prepurge..... Included
  - J. Cool Down..... Included
  
- 26. Exterior Finish
  - A. Primer..... 2 coats rust inhibiting
  - B. Finish..... 2 coats textured finish
  
- 27. Start-Up and Training..... Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation.
  
- 28. Environmental Submittals..... Complete technical portion of state environmental permits. Engineering calculations, technical data, existing stack test results and equipment blueprints provided.

**Air Emissions Testing**

**IE43-PPII, Power-Pak II Cremator**

**Reflections Pet Funeral Home  
Pinellas Park, Florida**

**May 7, 2002**

**Testing Performed By:**

**Southern Environmental Sciences, Inc.**

## **1.0 INTRODUCTION**

Southern Environmental Sciences, Inc. conducted emissions testing of the Industrial Equipment & Engineering Company Model IE43-PPII, Power-Pak II cremator (serial number 0691201) on May 7, 2002. The unit is located at Reflections Pet Funeral Home in Pinellas Park, Florida (permit number 1030136-004-AC). Testing was conducted for the particulates, carbon monoxide, and visible emissions. Oxygen (O<sub>2</sub>) concentrations were measured in order to correct results to 7% O<sub>2</sub>.

## **2.0 SUMMARY OF RESULTS**

The equipment was found to be in compliance with all applicable emission limiting standards. Results of the particulate and carbon monoxide testing for runs 2, 3, and 4 are summarized in Table 1.

The average measured particulate emission concentration was 0.022 grains per dry standard cubic foot (corrected to 7% O<sub>2</sub>).

The average measured carbon monoxide emission concentration was 2.5 parts per million by volume (corrected to 7% O<sub>2</sub>).

A visible emissions evaluation was conducted over a 60-minute period. The maximum three minute average opacity was 0 percent.

The data for the first run, run 1, were not valid because of a problem with the pitot tube used in the sampling train. The field data sheets for run 1 are included in the appendix. The data were not analyzed.

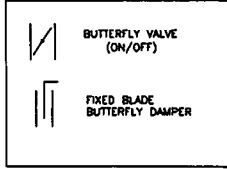
## EMISSIONS TEST SUMMARY

Company: REFLECTION PET FUNERAL HOME  
 Source: IEE POWER-PAK II ANIMAL CREMATORY

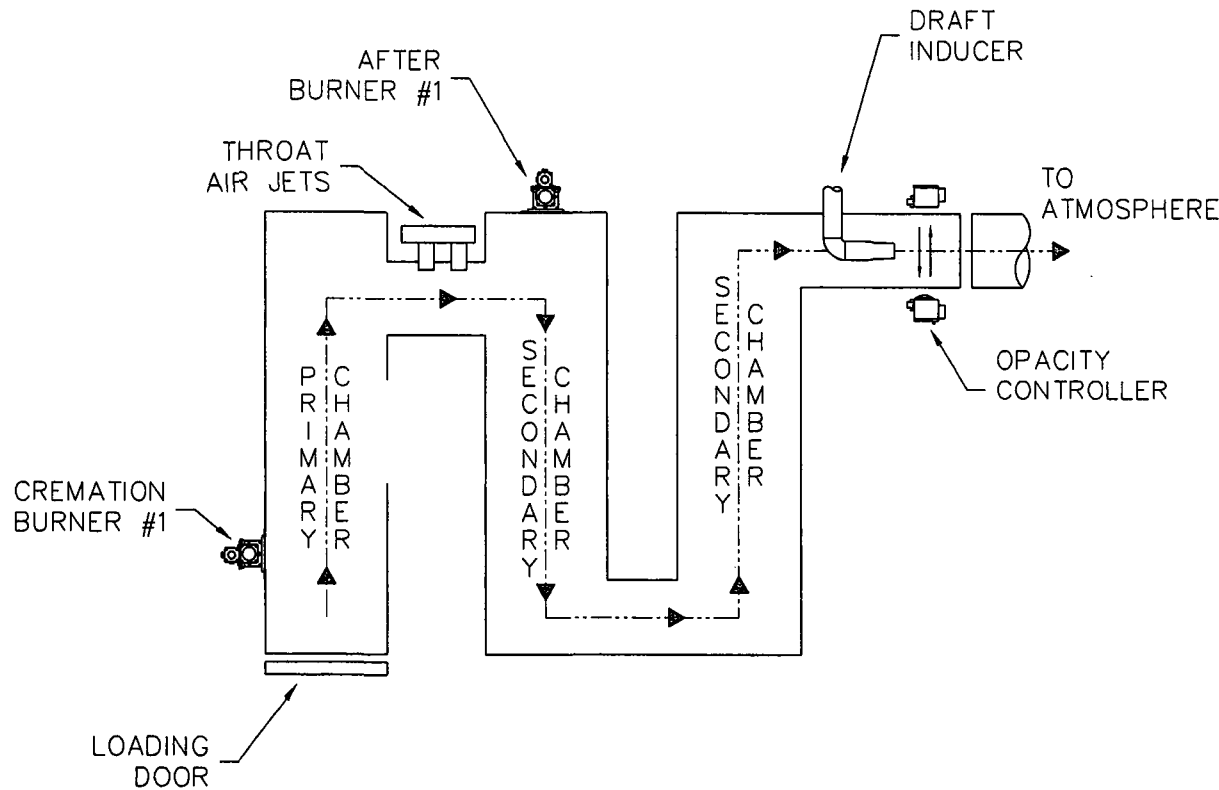
|  | Run 2  | Run 3        | Run 4  |
|--|--------|--------------|--------|
| Date of Run  | 5/7/02 | 5/7/02       | 5/7/02 |
| Start Time (24-hr. clock)                              | 1456   | 1628         | 1916   |
| End Time (24-hr. clock)                                | 1554   | 1742         | 2028   |
| Vol. Dry Gas Sampled Meter Cond. (DCF)                 | 31.172 | 47.554       | 50.327 |
| Gas Meter Calibration Factor                           | 1.000  | 1.000        | 1.000  |
| Barometric Pressure at Barom. (in. Hg.)                | 30.15  | 30.09        | 30.08  |
| Elev. Diff. Manom. to Barom. (ft.)                     | 0      | 0            | 0      |
| Vol. Gas Sampled Std. Cond. (DSCF)                     | 30.172 | 45.527       | 48.276 |
| Vol. Liquid Collected Std. Cond. (SCF)                 | 2.801  | 5.587        | 6.177  |
| Moisture in Stack Gas (% Vol.)                         | 8.5    | 10.9         | 11.3   |
| Molecular Weight Dry Stack Gas                         | 29.62  | 29.36        | 29.40  |
| Molecular Weight Wet Stack Gas                         | 28.63  | 28.11        | 28.11  |
| Stack Gas Static Press. (in. H <sub>2</sub> O gauge)   | -0.02  | -0.01        | -0.01  |
| Stack Gas Static Press. (in. Hg. abs.)                 | 30.15  | 30.09        | 30.08  |
| Average Square Root Velocity Head                      | 0.167  | 0.196        | 0.199  |
| Average Orifice Differential (in. H <sub>2</sub> O)    | 0.814  | 1.213        | 1.290  |
| Average Gas Meter Temperature (Deg. F)                 | 90.8   | 96.3         | 95.1   |
| Average Stack Gas Temperature (Deg. F)                 | 1393.5 | 1291.1       | 1207.3 |
| Pitot Tube Coefficient                                 | 0.84   | 0.84         | 0.84   |
| Stack Gas Vel. Stack Cond. (ft./sec.)                  | 17.56  | 20.27        | 20.05  |
| Effective Stack Area (sq. ft.)                         | 2.18   | 2.18         | 2.18   |
| Stack Gas Flow Rate Std. Cond. (DSCFM)                 | 604    | 717          | 741    |
| Stack Gas Flow Rate Stack Cond. (ACFM)                 | 2,298  | 2,654        | 2,625  |
| Net Time of Run (min.)                                 | 60.0   | 72.0         | 72.0   |
| Nozzle Diameter (in.)                                  | 0.601  | 0.601        | 0.601  |
| Percent Isokinetic                                     | 92.3   | 97.7         | 100.3  |
| Oxygen (%)   | 8.4    | 10.7         | 10.0   |
| Particulate Collected (mg.)                            | 31.0   | 56.6         | 56.5   |
| Particulate Emissions (lb./hr.)                        | 0.082  | 0.118        | 0.115  |
| Particulate Emissions (gr./DSCF)                       | 0.016  | 0.019        | 0.018  |
| Particulate Emissions (gr./DSCF @ 7% O <sub>2</sub> )  | 0.018  | 0.026        | 0.023  |
| <b>Avg. Particulate Emissions (gr./DSCF @ 7)</b>       |        | <b>0.022</b> |        |
| <b>Allowable Part. Emissions (gr./DSCF @ 7%)</b>       |        | <b>0.08</b>  |        |
| CO Emissions (ppm)                                     | 4.1    | 1.0          | 1.2    |
| CO Emissions (ppm @ 7% O <sub>2</sub> )                | 4.6    | 1.4          | 1.6    |
| <b>Avg. CO Emissions (ppm @ 7% O<sub>2</sub>)</b>      |        | <b>2.5</b>   |        |
| <b>Allowable CO Emissions (ppm @ 7% O<sub>2</sub>)</b> |        | <b>100</b>   |        |

Note: Standard conditions 68° F, 29.92 in. Hg

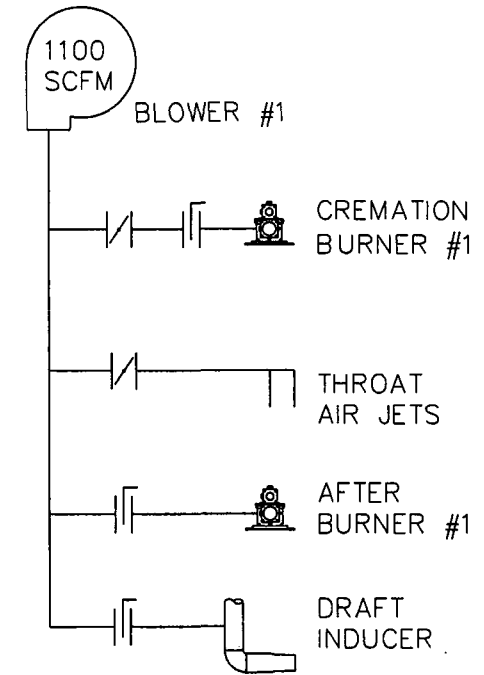
LEGEND OF SYMBOLS



FLOW DIAGRAM



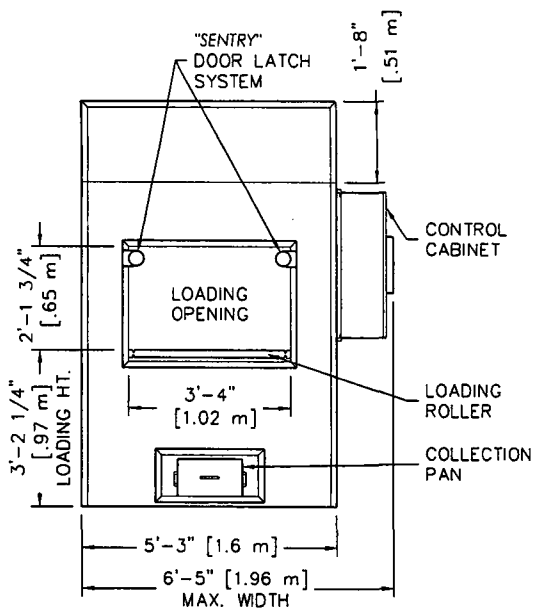
AIR SCHEMATIC



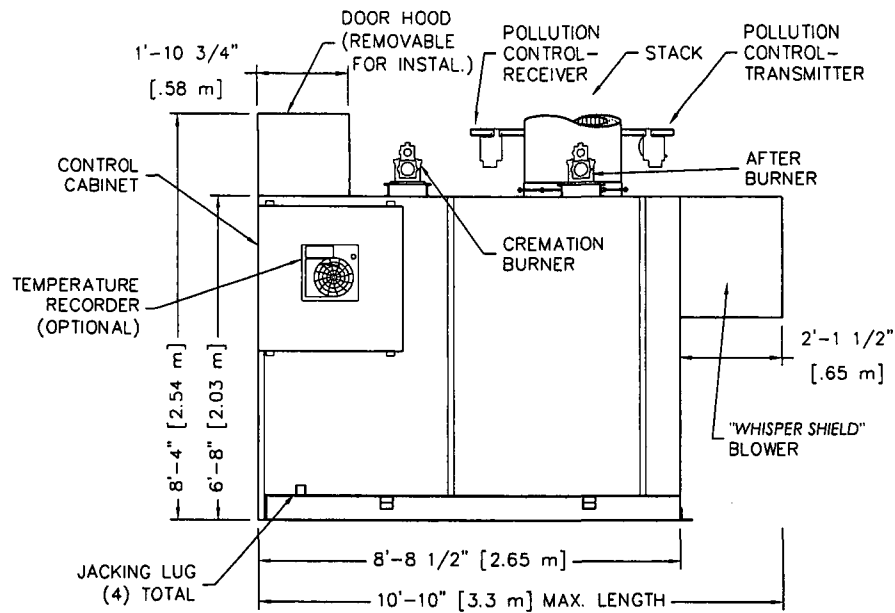
2045 Sprint Boulevard  
Apopka, Florida 32703  
USA

POWER PAK Jr  
FLOW DIAGRAM  
& AIR SCHEMATIC

|           |                     |             |         |
|-----------|---------------------|-------------|---------|
| DATE:     | 08-05-05            | SCALE:      | 1/4"=1' |
| DRAWN:    | JG                  | PLOT SCALE: | 1:48    |
| APRVD:    |                     | SHEET:      | 1 OF: 1 |
| DWG FILE: | PPJrFlowDiaAirSchem |             |         |
| DWG #:    | 0000613             |             |         |



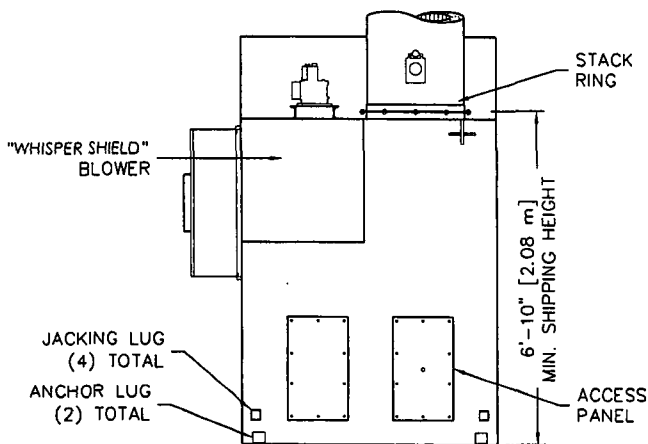
FRONT  
ELEVATION



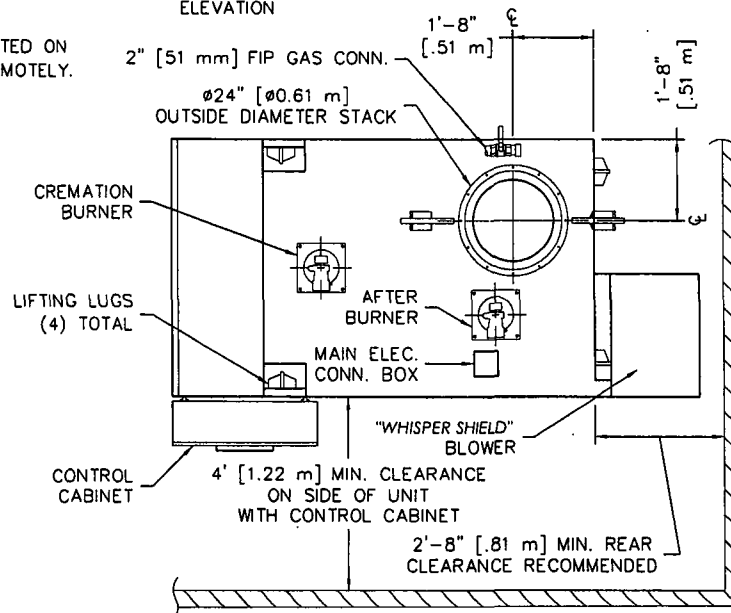
RIGHT SIDE  
ELEVATION

NOTES:

- CONTROL CABINET CAN BE MOUNTED ON THE LEFT OR RIGHT SIDE, OR REMOTELY.
- CHAMBER WIDTH IS 39" [0.99m].



REAR  
ELEVATION



PLAN  
VIEW



2045 Sprint Boulevard  
Apopka, Florida 32703  
USA

POWER-PAK Jr

PLAN & ELEVATIONS INCL: CLEARANCES,  
REQUIREMENTS & RECOMMENDATIONS

|           |                          |             |         |
|-----------|--------------------------|-------------|---------|
| DATE:     | 10-26-06                 | SCALE:      | 1/4"=1' |
| DRAWN:    | JG                       | PLOT SCALE: | 1:48    |
| APRVD:    |                          | SHEET:      | 1 OF: 2 |
| DWG FILE: | PPJr-MarketingPlanElevR2 |             |         |
| DWG #:    | 0000142                  |             |         |

### CREMATOR CLEARANCES

#### RECOMMENDED

#### MINIMUM

|               |                   |                    |
|---------------|-------------------|--------------------|
| TOP: ②        | 2 FEET [610 mm]   | 6 INCHES [152 mm]  |
| CABINET SIDE: | 4 FEET [1.22 m]   | 4 FEET [1.22 m]    |
| OTHER SIDE:   | 2 FEET [610 mm]   | 6 INCHES [152 mm]  |
| FRONT:        | 9 FEET [2.74 m]   | 8 FEET [2.44 m]    |
| REAR:         | 3 FEET [0.91 m]   | 32 INCHES [812 mm] |
| STACK:        | 6 INCHES [152 mm] | 6 INCHES [152 mm]  |

- FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- FROM HIGHEST POINT ON UNIT.
- CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).
- REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW, SHEET 1).

### CREMATOR REQUIREMENTS

**FUEL:** A PRESSURE REGULATOR ADJUSTABLE TO 7" [178 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

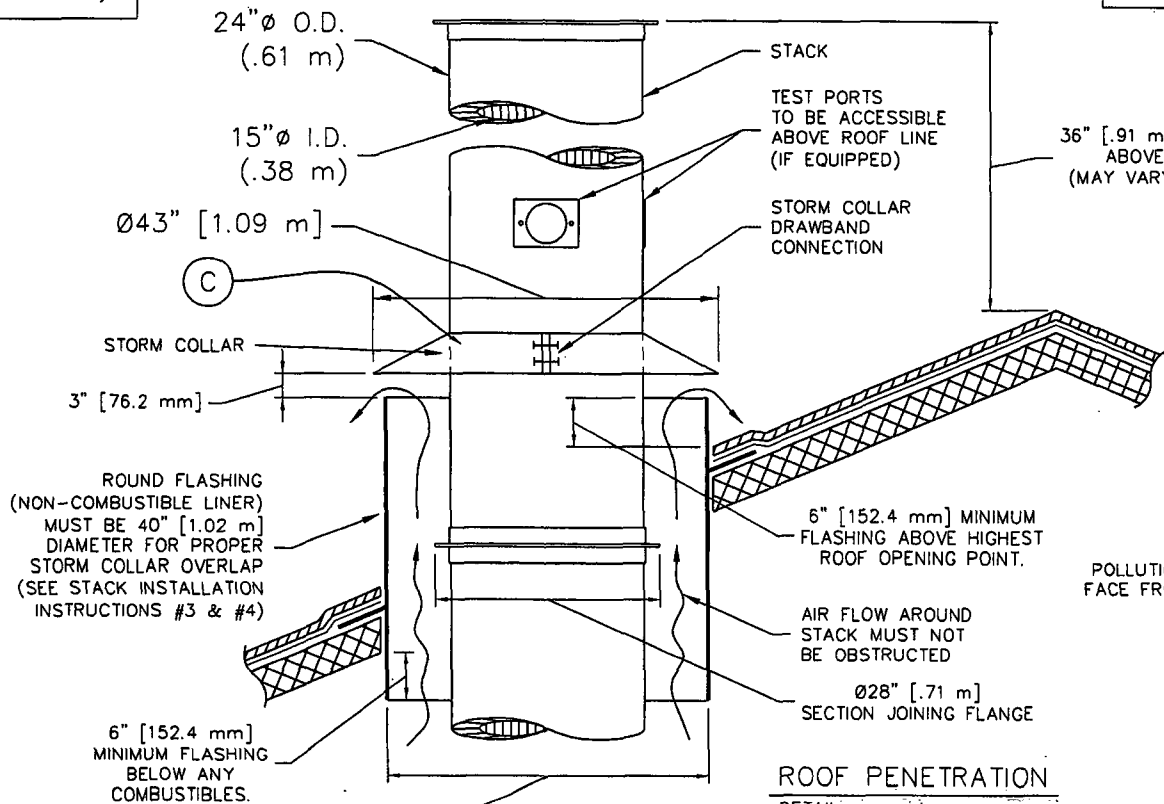
**CAPACITY:** RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJOULES/HR] DEPENDING UPON AMOUNT OF BURNERS.

**ELECTRICAL:** 230 VOLT, 3Ø, (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT, 1Ø, (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

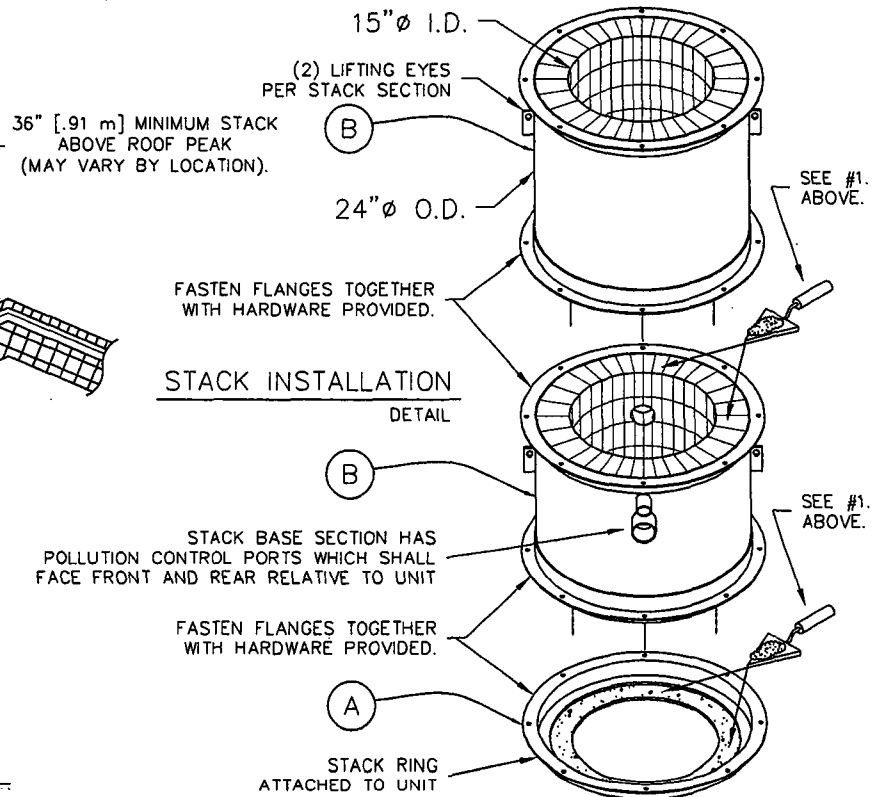
**AIR:** LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

### STACK INSTALLATION INSTRUCTIONS

- APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
- INSTALL STORM COLLAR ON STACK, 3" [72 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).
- STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
- RAIN CAP NOT REQUIRED.



**ROOF PENETRATION**  
DETAIL



**STACK INSTALLATION**  
DETAIL

Ø40" [1.02 m]  
REQUIRED FOR PROPER  
STACK CLEARANCE.



2045 Sprint Boulevard  
Apopka, Florida 32703  
USA

POWER-PAK Jr

STACK DETAILS, CLEARANCES &  
INSTALLATION INSTRUCTIONS.  
REFRACTORY STACK DETAIL

|           |                            |             |         |
|-----------|----------------------------|-------------|---------|
| DATE:     | 10-26-06                   | SCALE:      | 1/2"=1' |
| DRAWN:    | JG                         | PLOT SCALE: | 1:24    |
| APRVD:    |                            | SHEET:      | 2 OF: 2 |
| DWG FILE: | PPJr-MarketingStackRefS2R4 |             |         |
| DWG #:    | 0000142                    |             |         |

## SPECIFICATIONS- Model Power-Pak Jr.

1. Equipment Type ..... Model Power-Pak Jr.
  - A. Model No. .... IE43-PPJR
  - B. Underwriters Laboratories Listing and File No. .. 87E8; MH14647
  
2. Dimensions
  - A. Footprint ..... 8' – 8 ½" x 6' -8"
  - B. Maximum Length ..... 10' – 10" (3.3 m)
  - C. Maximum Width ..... 6' -5" (1.96 m)
  - D. Maximum Height ..... 8' - 4" (2.54 m)
  - E. Chamber Loading Opening ..... 25 ¾" H x 39" W (655 mm x 990 mm)
  
3. Weight ..... 18,000 lbs. (8,165 kg)
  
4. Utility/Air Requirements
  - A. Gross Gas Input, Natural or LP Gas ..... 2,000,000 BTU/hr. (2,100,000 kJ/h)
    - Running Gas Pressure, Natural Gas ..... 7 inches (180 mm) water column or greater
    - Running Gas Pressure, LP Gas ..... 11 inches (280 mm) water column or greater
  - B. Electrical Supply ..... 230 volt, 3Ø or 1Ø, 50/60 hz (other available)
  - C. Air Supply ..... 2,500 cfm (70 standard m<sup>3</sup>/min)
  
5. Incineration Capacity ..... 75 lbs./hr. (34 kg/h)
  
6. Typical Loading Capacity of Waste Types ..... 300 lbs. (136 kg/h)
  
7. Construction and Safety Standards ..... Incineration Institute of America, Underwriters Laboratories, Canadian Standards Association
  
8. Steel Structure Construction
  - A. Frame ..... 2" (51 mm) square tubing
  - B. Front/Rear Plates ..... 3/8" (10 mm) plate
  - C. Floor Plates ..... 3/16" (5 mm) plate
  - D. Outer Side Casing ..... 12 gauge (3 mm) plate
  - E. Inner Side Casing ..... 12 gauge (3 mm) plate
  
9. Stack Construction
  - A. Inner Wall ..... 4 1/2" (110 mm) insulating firebrick or castable
  - B. Outer Wall ..... 12 gauge (3 mm) sheet, 304 s.s., welded seams  
(unlined stack available)
  
10. Draft Nozzle Construction ..... Schedule 40 type 316 s.s. pipe, welded connections
  
11. Main Chamber Door Construction
  - A. Steel Shell ..... 3/16" (5 mm) steel, welded with reinforcement
  - B. Outer Refractory ..... 1" (25 mm) insulating block
  - C. Inner Refractory ..... 4½" (110 mm) insulating firebrick
  
12. Primary Chamber Wall Construction
  - A. Outer Casing Wall ..... 12 gauge (3 mm) sheet
  - B. Inner Frame/Air Compartment ..... 2" (51 mm) air compartment
  - C. Inner Casing Wall ..... 12 gauge (3 mm) sheet
  - D. Outer Refractory Wall ..... 5" (127 mm) insulating block
  - E. Inner Refractory Wall ..... 4½" (110 mm) firebrick



**SPECIFICATIONS- Model Power-Pak Jr.**

- 13. Secondary Chamber Wall Construction
  - A. Outer Casing Wall ..... 12 gauge (3 mm) sheet
  - B. Inner Frame/Air Compartment ..... 2" (51 mm) air compartment
  - C. Inner Casing Wall ..... 12 gauge (3 mm) sheet
  - D. Outer Refractory Wall ..... 6" (150 mm) insulating block
  - E. Inner Refractory Wall ..... 4½" (110 mm) firebrick
  
- 14. Refractory Temperature Ratings
  - A. Standard Firebrick ..... 3,100° F. (1700° C)
  - B. Insulating Firebrick..... 2,600° F. (1430° C)
  - C. Castable Refractory (Hearth) ..... 2,550° F. (1370° C)
  - D. Castable Refractory ..... 2,550° F. (1370° C)
  - E. Insulating Block..... 1,900° F. (1040° C)
  - F. Bonding Mortar ..... 3,200° F. (1760° C)
  
- 15. Chamber Volumes (not including external flues, stacks or chimneys)
  - A. Primary Chamber..... 27 cubic feet (0.8 m<sup>3</sup>)
  - B. Secondary Chamber..... 37 cubic feet (1.0 m<sup>3</sup>)
  
- 16. Emission Control Features
  - A. Secondary Chamber with Afterburner ..... Included
  - B. Opacity Monitor and Controller with Visual and Audible Alarms..... Included
  - C. Auxiliary Air Control System..... Included
  - D. Microprocessor Temperature Control System..... Included
  
- 17. Operating Temperatures
  - A. Primary Chamber..... 1,200° F. - 1,800° F. (650° C - 1000° C)
  - B. Secondary Chamber..... 1,400° F. - 1,800° F. (760° C - 1000° C) as required
  
- 18. Secondary Chamber Retention Time..... > 1 second
  
- 19. Ash Removal ..... Door functions as a heat shield. Sweep out beneath front door into hopper that fills collection pan.
  
- 20. Safety Interlocks
  - A. High Gas Pressure ..... Optional
  - B. Low Gas Pressure ..... Optional
  - C. Blower Air Pressure ..... Included
  - D. Door Position ..... Included
  - E. Opacity ..... Included
  - F. Motor Starter Function ..... Included
  - G. Chamber Temperature ..... Included
  - H. Motor Overload..... Included
  - I. Flame Quality..... Included
  - J. Burner Safe Start..... Included
  
- 22. Burner Description..... The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.

**SPECIFICATIONS- Model Power-Pak Jr.**

- 23. Ultraviolet Flame Detection..... Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors.
  
- 24. Operating Panel Indicating Lights
  - A. Safe Run..... Included
  - B. Door Closed..... Included
  - C. Pollution Alarm..... Included
  - D. Afterburner On (Secondary Burner)..... Included
  - E. Cremation Burner On..... Included
  - F. Low Fire Cremation Burner On..... Included
  - G. Afterburner (Secondary Burner) Reset..... Included
  - H. Cremation Burner Reset..... Included
  - I. Hearth Air..... Included
  - J. Throat Air Off..... Included
  
- 25. Automatic Timer Functions
  - A. Master Cycle..... Included
  - B. Afterburner (Secondary Burner)..... Included
  - C. Cremation Burner..... Included
  - D. Low Fire Cremation Burner..... Included
  - E. Hearth Air..... Included
  - F. Throat Air..... Included
  - G. Pollution Monitoring..... Included
  - H. Afterburner (Secondary Burner) Prepurge..... Included
  - I. Cremation Burner Prepurge..... Included
  - J. Cool Down..... Included
  
- 26. Exterior Finish
  - A. Primer..... 2 coats rust inhibiting
  - B. Finish..... 2 coats textured finish
  
- 27. Start-Up and Training ..... Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation.
  
- 28. Environmental Submittals ..... Complete technical portion of state environmental permits. Engineering calculations, technical data, existing stack test results and equipment blueprints provided.

**EMISSIONS TESTING  
REPORT**

**IE43-PPJ, POWER-PAK JUNIOR  
CREMATOR**

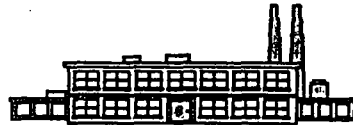
*PREPARED FOR:*

**SPCA OF PINELLAS COUNTY**

LARGO, FLORIDA  
NOVEMBER 12, 2004

*PREPARED BY:*

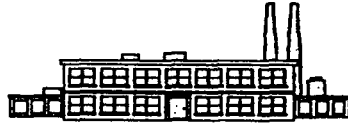
**ATC**



**AIR TESTING & CONSULTING, INC.**

333 FALKENBURG ROAD, SUITE B-214  
TAMPA, FLORIDA 33619

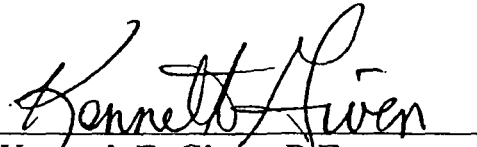
**ATC**



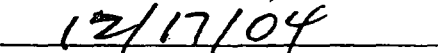
**AIR TESTING & CONSULTING, INC.**

333 FALKENBURG ROAD, SUITE B-214  
TAMPA, FLORIDA 33619

To the best of my knowledge, all field and analytical procedures comply with Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.



Kenneth E. Given, P.E.



Date

# *TABLE OF CONTENTS*

- 1.0 INTRODUCTION
- 2.0 PROCESS DESCRIPTION
- 3.0 SUMMARY OF RESULTS
- 4.0 SAMPLING PROCEDURES
  - 4.1 *DESCRIPTION OF SAMPLING EQUIPMENT*
  - 4.2 *O<sub>2</sub> - EPA METHOD 3A*
  - 4.3 *SO<sub>2</sub> - EPA METHOD 6*
  - 4.4 *NO<sub>x</sub> - EPA METHOD 7E*
  - 4.5 *CO - EPA METHOD 10*
  - 4.6 *VOC - EPA METHOD 25A*
  - 4.7 *PARTTICULATE/HYDROGEN CHLORIDE - EPA METHOD 26A*
  - 4.8 *TRAVERSE POINT LOCATIONS*
- 5.0 ANALYTICAL PROCEDURES

## *APPENDICES*

- A. FIELD DATA
- B. LABORATORY DATA
- C. CALCULATIONS
- D. CALIBRATION INFORMATION
- E. VISIBLE EMISSION READINGS
- F. TEMPERATURE CHART
- G. PROJECT PARTICIPANTS

## 1.0 INTRODUCTION

On November 12, 2004, Air Testing & Consulting, Inc. conducted emissions testing on the Mathews Cremation Division Model IE43-PPJ, Power-Pak Junior. The unit is located at the SPCA of Pinellas County, 9099 130<sup>th</sup> Ave. North, Largo, Florida.

Testing included:

- (1) *O<sub>2</sub> - EPA METHOD 3A*
- (2) *SO<sub>2</sub> - EPA METHOD 6*
- (3) *NO<sub>x</sub> - EPA METHOD 7E*
- (4) *CO - EPA METHOD 10*
- (5) *VOC - EPA METHOD 25A*
- (7) *PARTICULATE/ HYDROGEN CHLORIDE - EPA METHOD 26A*
- (8) *VE - EPA METHOD 9*

These tests were performed at the request of Mathews Cremation Division. The burn rate during the testing was 75 lbs/hr.

## 2.0 SUMMARY OF RESULTS

The results of the emission testing are presented in the Test Summary and the Summary of Test Data. The particulate emissions averaged 0.0255 grains per dry standard cubic foot (grs/dscf), CO emissions averaged 10.47 parts per million (ppmv), SO<sub>2</sub> emissions averaged 86.48 ppmv, VOC emissions averaged 1.37, NO<sub>x</sub> emissions averaged 173 ppmv and HCL emissions averaged 12.8 ppmv, each corrected to 7% O<sub>2</sub>. A visible emissions test was conducted over a 60 minute period. Opacity, highest six-minute average, on the stack, was 0%.

**TEST SUMMARY**  
**SPCA of PINELLAS COUNTY**  
**CREMATORY INCINERATOR**  
**NOVEMBER 12, 2004**

| <b>RUN #</b> | <b>% O<sub>2</sub></b> | <b>PARTICULATE<br/>GR/DSCF<br/>@ 7% O<sub>2</sub></b> | <b>CO<br/>ppmv<br/>@ 7% O<sub>2</sub></b> | <b>HCL<br/>ppmv<br/>@ 7% O<sub>2</sub></b> | <b>SO<sub>2</sub><br/>ppmv<br/>@ 7% O<sub>2</sub></b> | <b>VOC<br/>ppmv<br/>@ 7% O<sub>2</sub></b> | <b>NOx<br/>ppmv<br/>@ 7% O<sub>2</sub></b> | <b>PROCESS<br/>RATE<br/>PPH</b> |
|--------------|------------------------|---|---|--|---|--|--|---------------------------------|
| 1            | 11.8                   | 0.0396  | 15  | 4.970                                      | 20.8  | 2  | 65   | 75                              |
| 2            | 11.0                   | 0.0169  | 10  | 3.810                                      | 108.5   | 1  | 199  | 75                              |
| 3            | 10.0                   | 0.0199  | 6   | 29.630                                     | 130.2   | 1  | 255  | 75                              |
| AVG          | 10.92                  | 0.0255  | 10.33                                     | 12.80                                      | 86.5  | 1.3  | 173  | 75                              |

## SUMMARY OF TEST DATA

FACILITY : SPCA of Pinellas County

UNIT : POWER-PAK JR.

TEST DATE : 11/12/04

|   | RUN 1    | RUN 2    | RUN 3    | AVERAGES |
|---|----------|----------|----------|----------|
| DATE  | 11/12/04 | 11/12/04 | 11/12/04 |          |
| PROCESS RATE (POUNDS/HOUR)                      | 75       | 75       | 75       |          |
| START TIME                                      | 10:55    | 12:36    | 14:09    |          |
| END TIME  | 12:01    | 13:41    | 15:14    |          |
| STACK DIAMETER (INCHES)                         | 12       | 12       | 12       |          |
| NOZZLE DIAMETER (INCHES)                        | 0.400    | 0.400    | 0.400    |          |
| TEST TIME (MINUTES)                             | 64       | 64       | 64       |          |
| NUMBER OF TEST POINTS PER RUN                   | 16       | 16       | 16       |          |
| STACK GAS TEMPERATURE (°F)                      | 1238.9   | 1262.6   | 1281     | 1260.9   |
| STACK GAS MOISTURE (%)                          | 8.40     | 10.32    | 10.27    | 9.67     |
| STACK GAS MOLECULAR WEIGHT                      | 28.99    | 28.76    | 28.77    |          |
| STACK GAS VOLUME SAMPLED (CUBIC FEET)           | 46.135   | 36.820   | 37.030   | 39.995   |
| VOLUME SAMPLED (SCF @ 68°F)                     | 46.222   | 36.825   | 37.020   | 40.022   |
| STACK GAS VELOCITY (FEET PER SECOND)            | 45.96    | 39.27    | 39.48    | 41.57    |
| STACK GAS FLOW RATE (ACFM)                      | 2165.8   | 1850.8   | 1860.6   | 1959.0   |
| STACK GAS FLOW RATE (DSCFM @ 68°F)              | 618.7    | 510.5    | 508.0    | 545.7    |
| ISOKINETIC SAMPLING RATE, %I                    | 105.1    | 101.5    | 102.5    |          |
| OXYGEN, %                                       | 11.75    | 11.0     | 10.0     | 10.9     |
| PARTICULATE CONC (GR/DSCF) @7% O <sub>2</sub>   | 0.0396   | 0.0169   | 0.0199   | 0.0255   |
| PARTICULATE MASS RATE (LBS/HOUR)                | 0.2097   | 0.0739   | 0.0868   | 0.1235   |
| CO CONC @ 7% O <sub>2</sub> , ppmv              | 15       | 10       | 6        | 10.47    |
| CO MASS RATE (LBS/HOUR)                         | 0.0270   | 0.0156   | 0.0111   | 0.0179   |
| NO <sub>x</sub> CONC @ 7% O <sub>2</sub> , ppmv | 65       | 199      | 255      | 173      |
| NO <sub>x</sub> MASS RATE (LBS/HOUR)            | 0.188    | 0.520    | 0.728    | 0.479    |
| VOC CONC @ 7% O <sub>2</sub> , ppmv             | 2        | 1        | 1        | 1.37     |
| VOC MASS RATE (LBS/HOUR)                        | 0.0051   | 0.0035   | 0.0024   | 0.0037   |
| HCL CONC @ 7% O <sub>2</sub> , ppmv             | 4.97     | 3.81     | 29.63    | 12.80    |
| HCL MASS RATE (LBS/HOUR)                        | 0.012    | 0.008    | 0.067    | 0.029    |
| SO <sub>2</sub> CONC @ 7% O <sub>2</sub> , ppmv | 20.81    | 108.45   | 130.16   | 86.48    |
| SO <sub>2</sub> MASS RATE (LBS/HOUR)            | 0.084    | 0.392    | 0.515    | 0.331    |

FIELD DATA AND SAMPLES UNDER THE CONTROL OF: TIM CAPELLE

LABORATORY ANALYSIS UNDER THE CONTROL OF: ATC, STL LABORATORIES



### **3.0 PROCESS DESCRIPTION**

The IE43-PPJ, Power-Pak Junior cremator has a multiple chamber with a 75 pound per hour normal burning capacity. Animal remains are loaded into the primary chamber. The afterburner ignites and heats the secondary chamber to the required temperature. The secondary chamber temperature is maintained by a process controller that automatically modulates the gas flow to the afterburner.

After the secondary chamber has been heated sufficiently, the cremator burner ignites and the cremation process is initiated. A typical cremation takes from 1 to 2 hours, but the time may vary depending on the body weights and various other factors.

A gas flow schematic is shown in Figure 1.

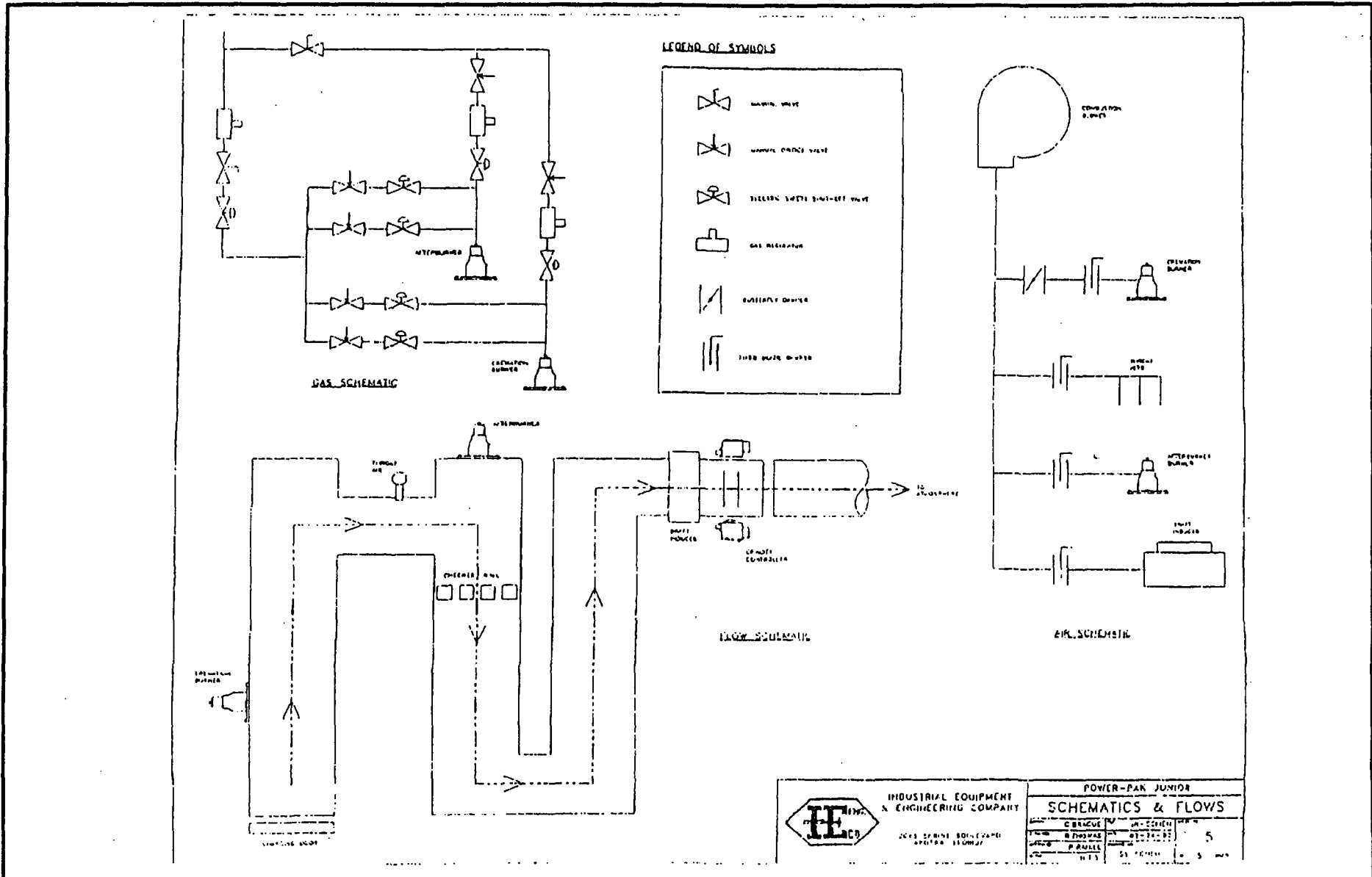


Figure 1 - Gas Flow Schematic

September 18, 2009

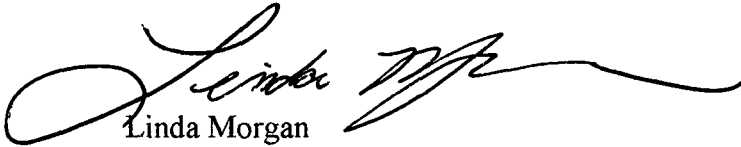
FDEP Receipts  
P.O. Box 3070  
Tallahassee, FL 32803-7555

Enclosed is a \$100.00 check to FDEP as required, along with all forms and signature.

I have also enclosed a copy of a letter, from the City of Deerfield, that certifies the property address/location of the crematory is a permitted zoning use.

If there is anything else, please call me.

Thank you,

A handwritten signature in black ink, appearing to read "Linda Morgan", with a long, sweeping horizontal flourish extending to the right.

Linda Morgan  
Paws & Cherish  
4340 19<sup>th</sup> Ave Bay E  
Deerfield Beach, FL 33064  
954-695-8156



City of  
**DEERFIELD  
BEACH**

August 28, 2009

Linda Morgan  
23290 Foxtail Creek  
Bonita Springs, FL 43135

**RE: ZONING CERTIFICATION—4340 NW 19<sup>TH</sup> AVE, DEERFIELD BEACH,  
FLORIDA**

Dear Ms. Morgan:

This is to certify that the above referenced property is zoned M-3 (Intense Manufacturing & Industrial) per the Broward County Zoning Code. This property has been annexed to the City of Deerfield Beach from Broward County. Upon annexation, the zoning did not change. The Broward County zoning districts and regulations still apply but are administered by the City. A copy of the section of the Code regulating the uses in this district is enclosed. The use of the property as an animal crematory is permitted.

Yours truly,

Gerald R. Ferguson, AICP  
Director of Planning and Growth Management

Mayor  
Peggy Noland

Vice Mayor  
Sylvia Poitier

Commissioners  
Bill Ganz  
Joseph P. Miller  
Martin Popelsky

City Manager  
Mike Mahaney



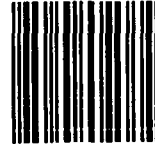
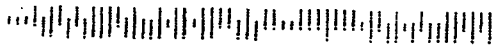
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