

**EMISSIONS TESTING
REPORT**

PERMIT NO. 0950126-005-AG

**IE43-PPII, POWER-PAK II
CREMATOR**

PREPARED FOR:

BALDWIN FAIRCHILD

ORLANDO, FLORIDA

MAY 5, 2005

PREPARED BY:

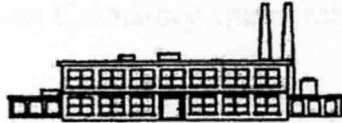
ATC



AIR TESTING & CONSULTING, INC.

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

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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.

A handwritten signature in cursive script that reads "Kenneth E. Given".

Kenneth E. Given, P.E.

5-18-05

Date

1.0 INTRODUCTION

On May 5, 2005, Air Testing & Consulting, Inc., conducted the following tests on Baldwin Fairchild's Human Crematory Incinerator located at 301 N. Ivanhoe Blvd. in Orlando, Florida:

- (1) Particulate Emission (EPA Methods 1 – 5)*
- (2) Carbon Monoxide (EPA Method 10)*
- (3) Visible Emissions (EPA Method 9)*
- (4) Oxygen (EPA Method 3A)*

These tests were performed at the request of Mathews Cremation Division to prove compliance on the Power Pak II crematory incinerator. Orange County, Environmental Protection Division, representatives, Gregory Bryant, Ilka Bundy and John Casper audited the test.

2.0 SUMMARY OF RESULTS

The results of the emission testing are presented in the Test Summary. The Particulate emissions averaged 0.0549 grains per dry standard cubic foot (gr/dscf) and CO emissions averaged 2.2 parts per million (ppmv), each corrected to 7% O₂. Opacity, highest six-minute average, on the stack, was 0%.

3.0 SUMMARY OF TEST DATA

PLANT : BALDWIN

UNIT : POWER-PACK II

RUN NUMBERS :1, 2, 3

TEST DATE : 5/5/05	#1	#2	#3	AVERAGES
DATE	5/5/05	5/5/05	5/5/05	
START TIME	10:32	13:05	15:27	
END TIME	11:50	14:09	16:29	
STACK DIAMETER (INCHES)	19.5	19.5	19.5	
NOZZLE DIAMETER (INCHES)	0.550	0.550	0.550	
TEST TIME (MINUTES)	60	60	60	
NUMBER OF TEST POINTS PER RUN	24	24	24	
STACK GAS TEMPERATURE (°F)	850.0	991.8	1128	989.9
STACK GAS MOISTURE (%)	12.51	9.76	6.56	
STACK GAS MOLECULAR WEIGHT	28.50	28.83	29.21	
STACK GAS VOLUME SAMPLED (CUBIC FEET)	34.375	36.840	40.110	37.108
VOLUME SAMPLED (SCF @ 68°F)	34.585	37.020	40.270	37.292
STACK GAS VELOCITY (FEET PER SECOND)	18.14	17.30	19.75	18.39
STACK GAS FLOW RATE (ACFM)	2257.0	2152.2	2457.7	2288.9
STACK GAS FLOW RATE (DSCFM @ 68°F)	801.7	711.5	769.2	760.8
OXYGEN, %	16.0	14.0	14.5	
PARTICULATE CONC (GR/DSCF) @7% O ₂	0.0359	0.1122	0.0165	0.0549
PARTICULATE MASS RATE (LBS/HOUR)	0.0871	0.3396	0.0500	0.1589
CO CONC @ 7% O ₂ , ppmv	1.42	2.01	3.26	2.23
CO MASS RATE (LBS/HOUR)	0.00175	0.00310	0.00503	0.0033
ISOKINETIC SAMPLING RATE, %I	90.4	109.0	109.7	
FIELD DATA AND SAMPLES UNDER THE CONTROL OF:	<u>TIM CAPELLE</u>			
LABORATORY ANALYSIS UNDER THE CONTROL OF:	<u>ATC</u>			

AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name BALDWIN FAIRCHILD		Permit Number 09502605-AG		Observation Date 5-5-05		Start Time 10:29		Stop Time 11:29	
Source CREMATORY			I.D. No.			SEC		SEC	
Address 301 N. IVANHOE BLVD.		City ORLANDO		County ORANGE		Zip 32804		Phone	
Process Equipment CREMATORY - Power Pak II		Operating Rate 150 lbs		Control Equipment AFTER BURNER		Operating Mode			
Fuel Type/Rate NAT. GAS		Material Type/Rate HUMAN REMAINS		Describe Emission Point STACK EXIT		Height Above Ground Level Start 15 Stop <input checked="" type="checkbox"/>		Height Relative to Observer Start 10 Stop <input checked="" type="checkbox"/>	
Distance from Observer Start 65 Stop <input checked="" type="checkbox"/>		Direction from Observer Start 310° Stop 310°		Describe Emissions Start None Stop <input checked="" type="checkbox"/>		Emission Color Start N/A Stop		Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent N/A	
<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Attached <input type="checkbox"/> Detached		Point in the Plume at which Opacity was determined Start Stop		Describe Background Start SKY Stop <input checked="" type="checkbox"/>		Ambient Temp. Start 75° Stop 82°	
Background Color Start lt. gray Stop <input checked="" type="checkbox"/>		Sky Conditions Start cloudy Stop <input checked="" type="checkbox"/>		Wind Speed Start 1-3 Stop 4-7		Wind Direction Start S Stop <input checked="" type="checkbox"/>			
Stack with Plume <input type="checkbox"/> Sun <input checked="" type="checkbox"/> Wind <input checked="" type="checkbox"/>		SOURCE LAYOUT SKETCH Draw North Arrow		Average Opacity for Highest 24 Consecutive Readings 0		Range of Opacity Readings Min. 0 Max. 0			
		Observer's Name (Print) Kenneth G. WEN		Observer's Signature <i>Kenneth G. Wen</i>		Date 5-5-05			
		Certified by E.T.A.		Date 2/05		Comments			
I certify the above process rate data is true to the best of my knowledge. SIGNATURE		Date							

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

VISIBLE EMISSIONS EVALUATOR

This is to certify that

conducted by Eastern Technical Associates of Raleigh,
North Carolina. This certificate is valid for six months
from date of issue.

326190

Certificate Number

Tampa, Florida

Location

February 16, 2005

Date of Issue

Thomas Hore

President

Michael W. Junford

Director of Training