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# Department of Environmental Protection

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TO: BOUCE MITCHELL DATE: 30-APR-01

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PROGRAM: AIR RESOURCES MGMT SECTION

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COMMENTS: FL, PE AND VOC WERE TESTED  
ONCE EVERY FIVE YEARS.

THE ATTACHED ARE FOR THE JAN. 2000 TEST.

I MAY HAVE RESULTS FOR '95 OR '96  
I'LL LOOK FOR THEM

Permit File Scanning Request from Elizabeth

Priority: -ASAP (Public Records Request, etc.) -Place in Normal Scanning Queue

Facility ID	Project#	Type	PSD #	Submittal Date	Batch #
0690046	001	AV			

- File Approved For Disposal  Correspondence  Intent  Permit  Draft  
 Return File to BAR  Amendment  Application  OGC  Proposed

Document Date 4/30/01

**OGDEN** ENERGY GROUP, INC.

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ENVIRONMENTAL TEST REPORT

VOLUME 1

EXECUTIVE SUMMARY - OEG REPORT NO. 2503

March 10, 2000



PREPARED FOR: Ogden Martin Systems of Lake, Inc.  
3830 Rogers Industrial Park  
P. O. Box 189  
Okahumpka, Florida 34762

PURPOSE: To Demonstrate Compliance with Florida  
Department of Environmental Protection,  
Permit/Certification No. AO35-193817, PSD-FL-  
113 and Rule 62-204.800. To demonstrate  
compliance with anticipated 40 CFR 60, Subpart  
Cb.

TEST DATES: January 24-27, 2000

ASSOCIATED REPORTS: OEG Report No. 2469

PREPARED BY: Ogden Energy Group, Inc.  
Department 38 - CEM/Emission Testing



TABLE 2.2  
SUMMARY OF SOURCE TEST RESULTS - UNIT 1  
Subpart Cb

Pollutant	Replicate <sup>(1)</sup>			Average	Emission Limits
	1	2	3		
<u>SDA INLET</u>					
<u>Conc., ppm<sub>dv</sub> @ 7% O<sub>2</sub></u>					
Sulfur Dioxide (SO <sub>2</sub> )	49.0	26.3	33.0	36.1	-----
Hydrogen Chloride (HCl)	1624	1066	1057	1249	-----
<u>Conc., ug/dscm @ 7% O<sub>2</sub></u>					
Mercury (Hg)	388	285	484	386	-----
<u>STACK <sup>(2)</sup></u>					
<u>Conc., ppm<sub>dv</sub> @ 7% O<sub>2</sub></u>					
Hydrogen Chloride (HCl)	22.6	19.6	14.7	18.9	29
Carbon Monoxide (CO)	17.5	13.1	13.5	14.7	100
Sulfur Dioxide (SO <sub>2</sub> )	1.67	1.08	3.03	1.93	29
Nitrogen Oxides (NO <sub>x</sub> )	188	183	186	186	205
Total Hydrocarbons as C	1.80	1.50	1.26	1.52	-----
<u>Conc., g/dscf @ 7% O<sub>2</sub></u>					
Particulate Matter (PM) <sup>(3)</sup>	<2.73E-05	6.05E-05	2.85E-05	<3.88E-05	0.012
<u>Conc., ug/dscm @ 7% O<sub>2</sub></u>					
Mercury (Hg)	7.54	7.74	5.88	7.05	70
<u>Conc., mg/dscm @ 7% O<sub>2</sub></u>					
Cadmium (Cd)	<2.60E-04	<3.17E-04	<2.41E-04	<2.73E-04	0.04
Lead (Pb)	1.35E-03	<7.92E-04	6.14E-04	<9.19E-04	0.49
<u>Conc., ng/dscm @ 7% O<sub>2</sub></u>					
Dioxins/Furans(PCDD/PCDF)	0.162	0.079	0.171	0.137	30
<u>Removal Efficiency, %</u>					
Hydrogen Chloride (HCl)	98.6	98.2	98.6	98.5	≥90
Mercury (Hg)	97.9	97.3	98.8	98.0	≥85
Sulfur Dioxide (SO <sub>2</sub> )	96.6	95.9	90.8	94.4	≥85
<u>Opacity, %</u>					
Visible Emissions (VE)	0	0	0	0	10

<sup>(1)</sup> Data presented as repetition number. Actual sample run number may differ.

<sup>(2)</sup> All testing for HCl, SO<sub>2</sub>, NO<sub>x</sub>, CO, opacity, and particulate done simultaneously.

<sup>(3)</sup> DL

<sup>(4)</sup> Present as method 6C data as listed in pre test protocol.

TABLE 2.3

## SUMMARY OF SOURCE TEST RESULTS - UNIT 2

Pollutant	----- Replicate -----			Average	Permitted Compliance Emission Limits
	1	2	3		
<u>SDA INLET</u>					
<u>Conc., ppm<sub>dv</sub> @ 12% CO<sub>2</sub></u>					
Sulfur Dioxide (SO <sub>2</sub> )	40.5	20.7	26.3	29.2	-----
<u>Emission Rate, lb/hr</u>					
Mercury (Hg)	0.0126	0.0180	0.0189	0.0165	-----
Hydrogen Chloride (HCl)	93.9	110	103	102	-----
<u>STACK <sup>(1)</sup></u>					
<u>Conc., ppm<sub>dv</sub> @ 7% O<sub>2</sub></u>					
Hydrogen Chloride (HCl)	5.74	6.76	6.86	6.45	50
Carbon Monoxide (CO)	19.9	14.8	15.8	16.8	100
<u>Conc., ppm<sub>dv</sub> @ 12% CO<sub>2</sub></u>					
Sulfur Dioxide (SO <sub>2</sub> ) <sup>(4)</sup>	0.0	0.0	0.0	60	
Nitrogen Oxides (NO <sub>x</sub> )	167	178	181	175	385
Total Hydrocarbons as C (THC)	1.96	1.48	1.60	1.68	70
<u>Conc., gr/dscf @ 7% O<sub>2</sub></u>					
Particulate Matter (PM)	5.50E-05	8.29E-05	2.56E-05	5.45E-05	0.02
<u>Conc., gr/dscf @ 12% CO<sub>2</sub></u>					
Particulate Matter (PM)	5.51E-05	8.29E-05	2.53E-05	5.45E-05	0.015
Beryllium (Be)	<2.9E-08	<3.0E-08	<2.9E-08	<2.2E-08	2.0E-07
Mercury (Hg)	1.1E-06	1.3E-06	<8.9E-07	<1.1E-06	3.4E-04
Total Fluorides (HF)	<6.0E-05	<5.9E-05	<6.5E-05	<6.1E-05	1.5E-03
<u>Emission Rate, lb/hr</u>					
Mercury (Hg)	2.79E-04	3.07E-04	<2.17E-04	<2.68E-04	-----
Hydrogen Chloride (HCl)	4.08	3.01	5.72	4.27	-----
<u>Removal Efficiency, %</u>					
Sulfur Dioxide (SO <sub>2</sub> ) <sup>(2)</sup>	100	100	100	100	≥70
Hydrogen Chloride (HCl) <sup>(3)</sup>	99.0	99.1	99.9	99.0	≥90
Mercury (Hg) <sup>(3)</sup>	97.8	98.3	98.8	98.4	
<u>Opacity, %</u>					
Visible Emissions (VE)	0	0	0	0	15

<sup>(1)</sup> All testing for HCl, SO<sub>2</sub>, NO<sub>x</sub>, CO, opacity, and particulate done simultaneously.

<sup>(2)</sup> Based on ppm<sub>dv</sub> @ 12% CO<sub>2</sub>.

<sup>(3)</sup> Based on lb/hr.

<sup>(4)</sup> Present as method 6C data as listed in pre test protocol.