

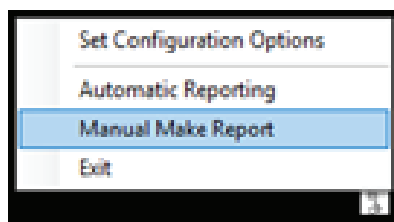
# ADVANCED ENGINE TECHNOLOGIES CORP.

Adapting Technology To Solve Today's Toughest Problems.

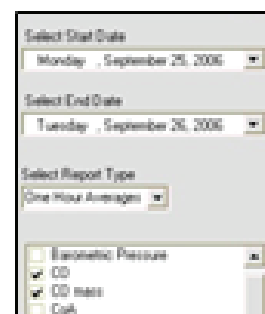
## PARAMETRIC EMISSIONS MONITORING SYSTEM (PEMS)

As simple as...

1. Click



2. Select



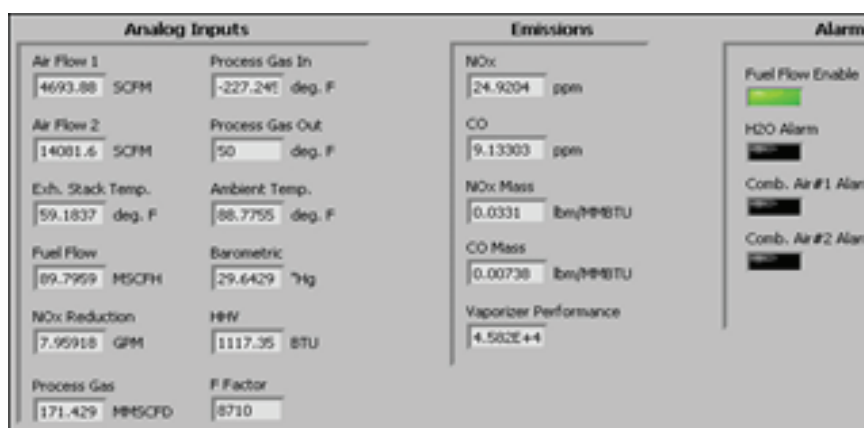
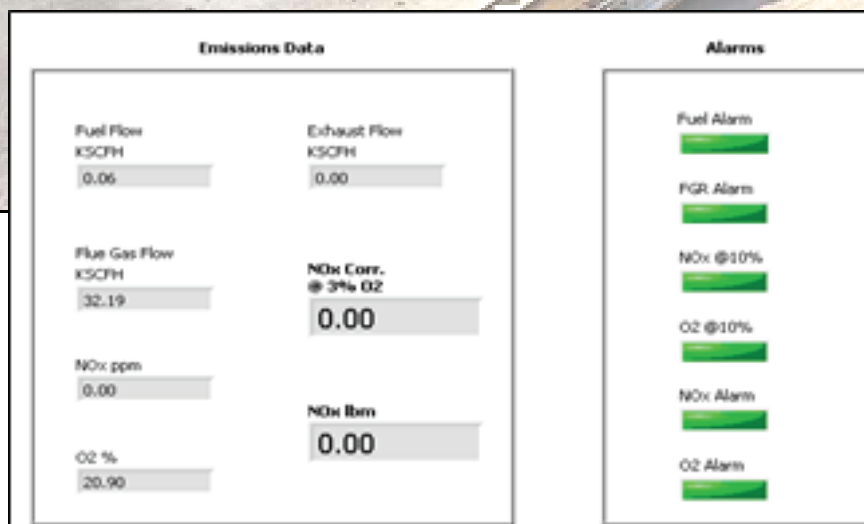
3. Print

Facility: Test Data  
Report Date: 10/11/2017  
Report Type: One Hour Averages  
Unit Name: Moon Unit

Each line represents the average of the data between the datetime of the current line and the line before it. Rows in YELLOW indicate there was a database error on one of the records used to calculate that row. Rows in RED indicate that one or more of the alarm booleans in that row was true for at least a portion of the averaged period.

DateTime	Ambient Temp	Barometric Pressure	CO	CO mass	Exhaust Temp	F Factor	Fuel Flow	HMV	NOx	NOx mass
10/10/2017 01:00	69.06	29.93	8.33	0.006	56	8710	74.28	1040	23.7	0.0370
10/10/2017 02:00	68.73	29.92	8.56	0.006	56	8710	74.12	1040	23.6	0.0370
10/10/2017 03:00	68.39	29.91	8.63	0.006	56	8710	74.02	1040	23.5	0.0369
10/10/2017 04:00	68.29	29.90	13.94	0.012	56	8710	97.26	1040	25.1	0.0347
10/10/2017 05:00	68.63	29.90	16.07	0.013	59	8710	100.96	1040	25.2	0.0342
10/10/2017 06:00	69.81	29.90	15.91	0.013	60	8710	101.55	1040	25.2	0.0341
10/10/2017 07:00	69.17	29.91	15.92	0.013	60	8710	101.75	1040	25.2	0.0341
10/10/2017 08:00	69.55	29.93	15.87	0.013	59	8710	100.33	1040	25.2	0.0343
10/10/2017 09:00	0.00	0.00	0.00	0.000	0	0	0	0	0	0
10/10/2017 10:00	0.00	0.00	0.00	0.000	0	0	0	0	0	0
10/10/2017 11:00	0.31	0.12	0.04	0.000	0	2177.5	0.30	260	0.1	0.0002
10/10/2017 12:00	0.10	0.04	0.01	0.000	0	2177.5	0.10	260	0.0	0.0001
10/10/2017 13:00	31.09	12.79	2.60	0.002	24	6532.5	32.05	780	10.7	0.0164
10/10/2017 14:00	34.55	33.16	3.42	0.003	26	8710	16.37	1040	11.1	0.0177
10/10/2017 15:00	74.65	81.05	7.89	0.006	57	8710	29.86	1040	24.0	0.0386
10/10/2017 16:00	55.95	82.08	6.20	0.006	43	8710	22.52	1040	17.9	0.0286
10/10/2017 17:00	61.32	82.39	15.83	0.017	56	8710	29.86	1040	20.8	0.0355
10/10/2017 18:00	61.34	81.13	15.90	0.017	56	8710	29.86	1040	20.8	0.0360
10/10/2017 19:00	60.91	79.10	16.20	0.018	50	8710	29.86	1040	20.6	0.0363
10/10/2017 20:00	63.99	76.43	14.29	0.014	57	8710	29.86	1040	23.4	0.0353
10/10/2017 21:00	100.83	75.41	14.75	0.012	60	8710	29.86	1040	25.2	0.0340

AETC has developed PEMS for DCPL's, LNG facilities, SCAQMD's Reclaim program, boilers, turbines and sources subject to Rule 40CFR Part 60 since 2003. From CEMS to PEMS, AETC has over 30 years of experience and numerous successful installations. Whatever your emissions monitoring requirements, AETC has an adaptable PEMS solution for your needs.





## **REAL TIME MONITORING**

- Comprehensive source monitoring
- Integrates with most industrial automation systems
- On-site data archiving
- Real time alarm displays to aid in emissions compliance
- Optional trending displays
- Optional event view

## **EMISSIONS REPORTING TOOL**

- Integrated with Microsoft Excel
- User configurable reports
- Customized reports available to meet your local regulatory requirements
- Historical trends exported to Excel
- The tool can potentially be integrated with existing databases
- Optional automated daily data review/ monthly/quarterly/annual report submission to regulatory authorities/and audit support for a nominal monthly fee

## **FIELD SERVICE**

- PEMS Modeling to predict NO<sub>x</sub>, O<sub>2</sub>, and CO for emissions across varying loads and operating parameters with as few as three and as many as ten sensor inputs.
- Sensor input evaluation and verification testing to insure the predictive relative accuracy of the model and its relationship to other sensors 40 CFR-60 Testing
- 40 CFR-60 Testing
- RATA/RAA Management and Support
- Optional on-site support & maintenance

# **HEADQUARTERS**

## **AETC**

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## **KEY CONTACTS**

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Susan Bothwell, PE – Mechanical Engineer  
Liz Richardson, CFO & Managing Director