PENSACOLA CHRISTIAN COLLEGE PENSACOLA, FLORIDA 32523-9160 (904) 478-8496

April 17, 1990

RECEIVED
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Northwest Florida
DER

Mr. Jack Preece
Department of Environmental Regulation
160 Governmental Center
Pensacola, Florida 32501-5794

Dear Mr. Preece:

Re: Pensacola Christian College
Application to Construct New Printing Press

We propose to accomplish testing for the efficiency of VOC destruction in catalytic reactor by testing for VOC's in the air stream as follows:

1. Initial testing will be done every three months. If after one year, results show no significant change in absorbency of the catalyst during normal operation, testing intervals will be rescheduled to every six months.

2. Testing will be done using Thermo Environmental VOC analyzer, model 580B, or equivalent.

3. Samples of exhaust air prior to catalytic reactor and exhaust air leaving reactor will be taken to determine percent reduction.

4. All results will be logged and filed.

5. Results will be compared to initial (start-up) tests and checked against DER allowable limits of VOC emissions or emissions specified by manufacturer of catalytic reactor.

6. When percent of destruction of VOC's starts decreasing so that VOC emissions are approaching limits mentioned in item 5, catalyst in reactor will be replaced. The old catalyst will be shipped back to supplier.

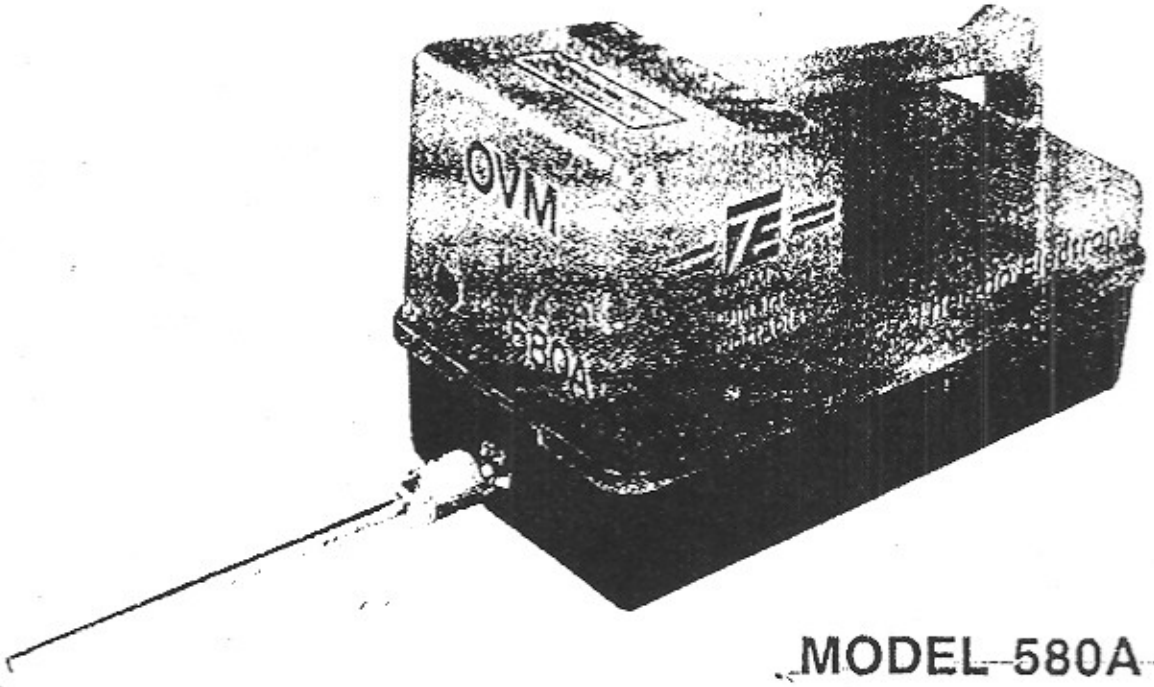
Sincerely yours,

Lawrence Kirkemo
Construction Manager

LK:vw

cc: Pensacola P.O.C., Incorporated

OVM/LOGGER



MODEL 580A

MODEL 580B

Organic Vapor Meter/Data Logger

Features

- Photoionization detector
- Linearized dynamic range 0.1 to 2000 ppm
- Max signal hold
- Digital readout with bar graph
- Over range indication with "lockout"
- Positive displacement pump
- Sample collection
- Settable alarm
- Pre-programmed interchangeable lamps
- Low battery indication
- Response factors
- Microprocessor based
- Intrinsically safe (applied for)
- Single hand operation
- Security levels
- Auto calibration
- Data logging with location, time, and date
- Recorded data printout
- IBM-PC or compatible spread sheet data reduction
- 580-PC programmable

• Outstanding Features

Thermo Environmental Instruments Inc.

DISCUSSION

A portable environmental tool, the Model 580A Organic Vapor Meter (OVM) will detect and quantitate most organic vapors, using a highly sensitive photoionization detector. Microprocessor-based, this instrument has many features that were not available in older models, such as, maximum signal hold, signal linearization, over-range lockout, IBM-PC programmable, and data reduction. The instrument also has the capability of logging 500 data points plus recording location, date and time of each point. It has an operating range of 0-2000 ppm with a minimum detectable of 0.1 ppm.

Completely portable, the Model 580A operates from internal batteries for eight (8) hours in the field. No support gases are required. Calibration/span response factors and sensitivity of interchangeable lamps are adjusted through the microprocessor.

SPECIFICATIONS

Measurement:

Technique:	Photoionization Detection of most organic vapors and some inorganic gases are possible - See OSHA Chart.
Ranges:	Digital Readout (LCD) - Auto Ranging 0-200 ppm (resolution to 0.1 ppm) 200-2000 ppm (resolution to 1.0 ppm)
Minimum Detectable:	0.1 ppm benzene in air matrix.
Sensitivity:	0.1 ppm benzene on 0-200 ppm scale.
System Time Constant:	2.0 sec. at 500 ml/min. sample flow
Sampling Rate:	Nominal Flow 500 ml/min.
Sample Conditioning:	Changeable ten micron filter on inlet.

Power Requirements:

Battery:	Internally rechargeable (external charger provided with unit).
Service Life:	8 hours per internal battery charge, operates from charger indefinitely.
Charger Requirements:	115/220 VAC, 60/50 Hz, 4 watts maximum.

Controls, Panel:

Readout:	Two line alphanumeric display with bargraph.
Keypad:	Seven Touch Pads - PWR, MODE, RESET, LIGHT, +, −, SPKR.

Other Features:

Audible Alarm:	80 db audible alarm mounted on front panel.
Earphone:	For operation in noisy environment.

Physical:

Case Size:	6.5" x 5.5" x 9.0" (HWD).
Weight:	6.5 lbs.
Communication:	RS-232 port.

OPTIONS

- Carrying case
- IBM-PC and compatible Communications Software
- Printer interface

Thermo Environmental Instruments Inc.

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