

April 16, 1997

Stephen Schultz
Superintendent of Environmental Services
Royal Oak Mines
PO Bag #3020, Stn Main
Yellowknife, NWT

Dear Stephen:

SUBJECT: CEMS

As per our discussion last week here is a letter documenting the items we discussed.

You were still attempting to get a measurement for the sample line length . We will need that to get the sample line umbilical cord manufactured. When supporting the sample line, a cable tray should be used. The support for the sample line needs to ensure the sample line does not move at all. The support also needs to be designed so that the sample line is in a continual downward direction with no low spots to ensure no "pooling" if any moisture were to be in the line.

Someone from Praxair, or a Praxair rep, will be quoting you on calibration gases and regulators for your CEMS system. Make sure you get +/- 1% accuracy, primary standard gas. And keep an eye on delivery time.

Someone from Entech Environmental will be contacting you to discuss relative accuracy testing of your new CEMS system, which is required for certification. Entech has done this for Royal Oak a few years ago. If you do not have any luck in locating Brian Penney's computer friend for data acquisition, Entech reps a data acquisition system you might be interested in.

Some of the literature that you may want to read up on include:

1--Report EPS 1/PG/7 Protocols & Performance Specs for CEMS for a copy write:

Pollution Measurement Div.

Environmental Technology Centre

Conservation and Protection

Environment Canada

Ottawa, Ontario

K1A 0H3

2--new CEMS Code Draft of Alberta for a copy call 403-944-0313 or 427-6311 Alberta Environmental Protection, Edm.

3--Continuous Emission Monitoring by James Jahnke for a copy call 919-929-4447.

You're also going to have to write up a QA manual on the CEMS system. I spoke with James Jahnke about this (I took a course he offered a while back) and James has written QA manuals for companies in the past. An organizational chart detailing who would take responsibility for the CEMS and related tasks will be part of this QA manual, I'd like to get a copy of this prior to installation of the CEMS so we can

coordinate training of the appropriate people on the CEMS system. I'm just waiting for a response from our factory in LaHabra California on what is available in the way of factory training.

The drawings should be coming soon from the factory.

Sincerely,

ROSEMOUNT INSTRUMENTS LTD



Christopher T. Martin, C.E.T.
Analytical Sales Specialist

:CTM