

Fax Cover Sheet

FISHER-ROSEMOUNT

Rosemount Instruments

Suite 100, 8702 - 48 Avenue
EDMONTON AB T6E 5L1
Tel: 1-403-465-0446

PAGES TO FOLLOW 1

DATE 97-3-17 TIME 1:18 PM

TO

NAME **Stephen Schultz**
COMPANY **Royal Oak Mines**
LOCATION **Yellowknife NWT**
FAX NO. **403-873-2914**
CC **Cam Nichols acct rep**
SUBJECT **CEMS**

FROM

SENDER **Chris Martin**
DEPT. **Analytical Specialist**
PHONE NO. **(403) 951-2860**
FAX NO. **(403) 465-0440**
FAX REF. NO.

As promised, please find the attached letter on the history of this project and my request for sample line length.

Thanks
Chris
403-951-2860

assumed stack gas quality:

- no HCl or SO₂
- particulates < 250 mg/m³
- Temp. ~ 94°C
- no gaseous arsenic/oxides of As.

Cabinet/Analyzer > -30°C
(cabinet containing
heater for analyzer)

March 17, 1997

Stephen Schultz
Superintendent of Environmental Services
Royal Oak Mines
PO Bag #3020, Stn Main
Yellowknife, NWT
phone 403-669-3703
fax 403-873-2914

*Spillair Ind. Treatment 10 days.
Chamco 3138 2D b.
(403) 466 3138*

Dear Stephen:

SUBJECT: Continuous Emissions Monitoring System


It was good talking with you on Friday March 14th. I understand you have taken over from Brian Penney recently and I'll be working with you on this project from this point forward. I hope Brian enjoys his new position as Operations Head for Colanac Mine.

Hopefully by now you've located the file Brian had for this project. In that file should be a quote dated Dec 20, 1996. Brian has issued the PO (Jan 24/97) for the hardware (Cabinet with analyzer and sample handling with sample probe, heated sample line, auto zero/span, and flow measurement). When the system is delivered in May or June 97 Brian had planned to issue a second PO for commissioning assistance by Peter Giersch our technician.

One thing I need from you this week or next is the length of sample line you will require between the stack and the cabinet. Brian was to get that measurement and forward it to me. It should be somewhere between 75 and 150 feet. Make sure you err on the long side. This line length is not adjustable once it is manufactured. For the blowback system that will keep the sample probe clean you will need to supply instrument air at 80 to 100 psig, dry (-40 degrees C), oil free, at a flow of 8 scfm. I understand that you do not presently have instrument air on site but Brian and the guys wanted these specs so they could work towards them.

Two more sample ports will be required on the stack. Both of them being 3 inch, 150 pound flanges. You will have to allow approximately eight and a half feet for insertion and retraction of the sample probe and flow pitot tube. 110 VAC, 60 Hz will be required for the cabinet and up on the stack for the sample probe box. Please review the Dec 20th quote notes under "Enclosure" and "Utilities" as most of the info you need will be located there. As for the calibration gases and regulators, you can call John Jaksa at Praxair in Edmonton at 403-449-7185 ext 6. For certification of the CEMS Brian was going to use Entech Environmental out of Calgary; John Jackson 403-250-3532.

Sincerely,


ROSEMOUNT INSTRUMENTS LTD
Christopher T. Martin, C.E.T.
Analytical Sales Specialist
:CTM

- blow back air supplied at analyzer or at sampling probe? (would need to heat air line!?)
- particulates in sample - will filters handle it?