

June 6, 1997

Stephen Schultz  
Superintendent of Environmental Services  
Royal Oak Mines  
fax 403-873-2914

Dear Stephen:

**SUBJECT: CEMS Schedule**

As promised below is an approximate, tentative schedule for your CEMS project. Please pay close attention to the items you need to have accomplished by July 7/97, without these it will hold up installation. July 7/97 CEMS equipment arrives on site at Royal Oak. Site personnel will have performed the following in preparation:

- installed 3 inch 150 lb flange for sample probe. Bolt holes at 2,4,8,10 o'clock positions.
- installed 3 inch 150 lb flange for pitot tube. Bolt holes at 2,4,8,10 o'clock positions.
- acquired calibration gases from Praxair (better order these now) SO2 in N2 and N2 (refer to the quote and other correspondence).
- arrange for ENTECH to be onsite in late August.
- installed a data acquisition device to record SO2 concentration, Differential Pressure, and Temperature and calculate mass and tons per day SO2.
- installed instrument air to the cabinet area.
- installed cable tray between the stack and cabinet for the sample line.

July 21/97 Royal Oak personnel will have:

- placed cabinet in final location
- installed sample probe
- installed pitot tube
- mounted pressure transmitter
- mounted temperature transmitter
- mounted sample line in cable tray and connected to sample probe and analyzer cabinet.
- installed instrument air to the cabinet.

July 21/97 Peter Giersch on site to:

- turn on the analyzers and sample handling.
- Configure system.
- Perform initial setup and calibration.
- Perform hands on training throughout startup.

July 28/97 Site perform 168 hour drift test with adjustments, recording all results.  
August 5/97 Site perform 168 hour drift test without adjustments, recording all results.  
August 18/97 Entech on site to perform CEMS Certification. Peter Giersch on site as well to ensure operation.

The above are just some pointers to get you moving in the right direction. Make sure you review your file on site which contains all of my correspondence with Brian Penny and yourself. In no way can I coordinate this project for you guys, that a responsibility that falls on your shoulders Stephen. Let me know if you have any further questions or require any more assistance.

Sincerely,

**ROSEMOUNT INSTRUMENTS LTD**

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

*Handwritten notes:*  
SO2 2D  
SO2 2D  
Peter Giersch 2D  
end of the week 2D  
mining 2D  
2D