

To K.G. Thomas

Date Nov. 5, 1985

Copies To A.C.H., G.B.H., K. Blower

Ref.

From B.C. Cross

Subject Baghouse Maintenance and Performance.

Upcoming ProjectsCost Estimate

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|--------------------------------|-------------------------------------|
| 1. Flue Repairs | \$250,000. |
| 2. Stack Top Repairs | \$30,000. |
| 3. Refurbish B.H. Compartments | \$15,000./ Comp. (#4 in progress) |
| 4. Insulate Baghouse | \$15,000. |

Baghouse Compartment Bag Changes

Compartment	Date	Notes
#1	May 25, 1984	New Walls & P&S Bags
#2	April 29, 1985	New Walls & P&S Bags
#3	June 14, 1985	New Wall & P&S Bags
#4	Dec. 12, 1980	New P&S Bags
#5	May 10, 1982	New P&S Bags
#6	Nov. 18, 1984	New P&S Bags
#7	Sept. 28, 1984	New P&S Bags
#8	Jan. 14, 1983	New P&S Bags

Stack Tests

The last stack test was performed on July 21, 1983 and an emission rate of 8.62 mg/M3 was found. The proposed Federal maximum limit rate is 20 mg/M3 while the existing Federal legislature has the limit at 50 mg/M3. The volumetric flow rate at the time of the test was 40,550 cfm, this translates to an emission rate of 31.4 pounds of arsenic per day. The metallurgical accounting for July 21, 1983 had 12.1 tons of arsenic reporting to the Baghouse, collection efficiency was in the order of 99.87%. The Sampling Control Console was dropped from the Test Platform on the Stack in the fall of 1983. The Instrument Technician checked out the Console but failed to find the defect in the dry gas meter. No tests were conducted in 1984. Ron Kent of the Environmental Protection Service requested that he be present during sampling this year, in fact he offered assistance in performing the tests. We were not able to co-ordinate our schedules until July 27th at which time while setting up the equipment we found broken plastic parts within the dry gas meter, rendering it inoperative. The unit was sent out for repair that day. A total of six telex messages and uncounted phone calls since August 29th have resulted in the promise that the unit will be shipped today. We phoned confirmed that it left Toronto.

Once we receive the dry gas meter, the control console will be reassembled and an attempt will be made in the near future to get a test done with an E.P.S. representative present. If the apparatus is found to be defective still we have as a contingency two quotes to bring in professional samplers with their equipment to get November test results.

Bryan C. Cross