

## FALCONBRIDGE NICKEL MINES LIMITED

INTER-OFFICE MEMORANDUM

DATE: January 24, 1975

TO: Mr. H. E. Pawson

COPIES TO: DE, LP, file

FROM: J. M. Mortimer

SUBJECT: GIANT STACK TEST - WESTERN RESEARCH AND DEVELOPMENT LTD.

I have read the above report you sent along with your letter of comment to Western. Apparently, Mr. W. A. Lemon, Chief of the Air Pollution Control Directorate, E.P.S., Abatement and Compliance Branch, Ottawa, has little faith in the above companies tests. I can hardly believe that Mr. Lemon wants a twenty page recitation of all the EPS specifications for testing but is annoyed at Western's method which does not call fume below stack temperature particulate. Western apparently did not account for fume escaping the alundum thimble and cooled to the ice bath temperature. I don't think the amount of fume vapor condensed below 170°F will be enough to materially alter the particulates but nevertheless we should comply to EPS.

Meanwhile, back at the farm, the 60 pounds per hour catch by Western is pretty high and I think we should tighten up on bag-house maintenance. Apart from fume escaping the bag-house about 20% or 292 pounds per day are true dust. Based on your November monthly report you produced about 54 tons per calendar day of calcine which at 33% down time is a rate of 81 tons per operating day. If this represented 90% of the calcine then say 18000 pounds carried over to the Cottrell and Bag-house. If the Cottrells caught 85% of this then 2700 pounds carried onto the bag-house. A loss of 292 pounds is over 10% which appears high for this type of equipment. You may be able to check this estimate closer from your assays and tonnages of products. In any event we are apparently losing more than we should from the bag-house.

Hope the above is of some benefit.



John M. Mortimer

JMM/pb