



Rapifax

67-2/4

27 FEB

H. S. for reply from Fletcher S.C.S.A.

MEMORANDUM

To P.J. Raleigh

Date February 24, 1984

Copies To

Re

From K.S. Morton

Subject

file  
Giant  
Roaster

Have received an interesting inquiry from Zimbabwe re roaster technology. We would like to participate but do not wish to complicate your arrangement with Simon-Carves.

Please comment on the attached correspondence. We will withhold our response until we have heard from you.

Regards.

Kent Morton

KSM:jb

# The Roasting Plant, Kwekwe

Telephone No. 2868

Telegraphic Address  
"ROASTER, KWEKWE"

P.O. BOX 118.

KWEKWE

13th February, 1984

ESTABLISHED IN 1937 IN TERMS OF THE ROASTING PLANT ACT  
(CHAPTER 804) TO CARRY ON THE BUSINESS OF DRESSING IN AND  
TREATING ORES, CONCENTRATES AND THE PRODUCTS AND BY-  
PRODUCTS THEREOF

Metallurgical Superintendent,  
Giant Yellowknife Mines, Ltd.,  
Yellowknife,  
N.W.T.

Dear Sir,

re: TREATMENT OF ARSENICAL GOLD CONCENTRATES.

I write to inquire if you could be in a position to supply us with a "design package" of the Flusolids technology used at your Mines, and an estimate of the cost for a 60 T.P.D. roaster.

We are a parastatal body, custom-treating concentrates from refractory (arsenical) ores from our Zimbabwean Mines. The roasting stage is performed in two Edwards Roasters which were commissioned in 1940 and have been operated ever since. The oreline goes through the conventional cyanide, C.C.D. and merrill-crowe zinc precipitation process. At present we just can manage about 30 T.P.D. of concentrates into the roasters, with not very satisfactory results on recovery, presently at 75% on average i.e. a residue of about 11 - 13 g/t to the dam.


We are now therefore trying to replace the old Edwards Roasters, and my Board of Directors has decided on acquiring a Flusolids roaster (double-bed).

Since we custom-treat, our source of feed concentrates is very varied as shown by the enclosed schedule of analysis and gold distribution (on size fractions) of some of our suppliers and our composite feed. The bulk of the concentrates are from as mined-ores and a few are from dump-retreatment. It may be of interest that it has been our experience that those concentrates of dump retreatment origin and with an antimony content in excess of 1.5%, do have some detrimental effect on the process. So, any information you could supply from your experience, of antimony behaviour in the Flusolids and effects of fluctuating composite feeds will be very much appreciated.

Finally, I am also asking if it would be possible to visit your group of Mines sometime between May and July, 1984 if arrangements were made.

Your assistance and any other advice you could give, would be greatly valued.

Yours faithfully,  
The Roasting Plant.

  
MR. RM KADESHIE,  
MANAGER.