MUL R+D 1990

Zelienople Plant
June 15, 1959.

A. S. Rankin, Res. Man.

Insulating Fire Brick
Similar to Armstrong's A-25
SPR 3-11
Yours - June 9, 1959

Raw material information for JM-23 brick is as follows:

	Per 1000 Slabs Usage Lbs.	Cost
CH Clay	1000	$5.90
Sawdust	624	5.74
Pyrophyllite	506	6.32
Kaolin	153	1.86
Grog	428	-
Kraft paper	2.5	.34

I do not believe it practical to grind in the dry pan O'Neil flint Clay finer than 20 to 35 mesh. I believe you should check to see if 20 mesh or at the finest 35 mesh would be satisfactory in brick.

The raw O'Neil Clay costs $10,00 per ton delivered to Zelienople. Grinding costs per hour at the dry pan is 2.43 for labor and $25.43 for expense. The expense rate is very high due to low volume and might be reduced to the area of 10.00 per hour at a high volume. In order to grind flint clay it will be necessary to crush it before grinding.

Under present conditions the production of 20 mesh clay would be about 2000 lbs per hour and 35 mesh clay about 1000 lbs. per hour. We hope to improve these rates but it will take considerable investigation and possibly some minor revisions to the equipment.

In view of high raw material costs and usage in slinger operation it would appear to me the most likely way to produce a lower cost brick equal to A-25 would be with the Simplified Process.

R. E. Robinson

cc: G. B. Brown
S. E. Wooley
W. M. MacAlpine