

To DRD: RJMcL

Date July 28, 1964

From E. O. Foster

Ref. _____

Subject Roaster Stack Sampling Results

Sampling Date:	<u>9-6-64</u>	<u>22-6-64</u>	<u>23-7-64</u>
Gas Temperature	205° F	195° F	203° F
Gas Velocity	10.49 ft./sec	11.02 ft./sec.	11.10 ft./sec.
Total Gas Volume	27,275 c.f.m.	28,644 c.f.m.	28,859 c.f.m.
Dust Loss	779 lb./day	797 lb./day	723 lb./day
Dust Analysis	51.90% As	58.60% As	69.10% As
Arsenic to Atmosphere	404 lb./day	467 lb./day	499 lb./day
Arsenic in Roaster Feed	40,140 lb.	42,140 lb.	40,860 lb.
Arsenic in Calcine & Cottrell Dust	<u>4,900 lb.</u>	<u>4,478 lb.</u>	<u>4,361 lb.</u>
Arsenic to Baghouse Collector	<u>35,240 lb.</u>	<u>37,662 lb.</u>	<u>36,499 lb.</u>
Stack Loss (per cent of arsenic to collector)	1.14 per cent	1.24 per cent	1.37 per cent
Baghouse Collection Efficiency	98.86 per cent	98.76 per cent	98.63 per cent