

To D.J. Emery; H.E. Pawson; File
From M.E. Lane
Subject Roaster Stack Filtration Tests

Date June 21, 1971
Ref.

Sampling Date: June 17, 1971

Gas Temperature: 196°F.
Gas Velocity: 14.73 ft/sec.
Gas Volume: 55,149 c.f.m.

Dust Loss: 2256 lbs/24 hrs.
Dust Analysis: 50.00% Arsenic
Arsenic to Atmosphere: 1128 lbs/24 hrs.

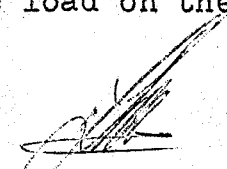
Arsenic in Roaster Feed: 28700 lbs.
Arsenic in Calcine: 2860 lbs.
Arsenic in Cottrell Dust: 580 lbs.
Arsenic to Baghouse: 25160 lbs.

Baghouse Collection Efficiency: 95.52%

Total Dust Collection Efficiency: 95.62%

Comment: Recent changes to the grinding circuit (to improve flotation) appear to have caused an increase in dust losses, and recent reductions in Cottrell efficiency have put an excessive load on the baghouse.

MEL/mw


M.E. Lane
Mill Engineer