1.0 Purpose

This procedure defines the calculation of a raw material production yield

2.0 Scope

This procedure covers the Manufacturing Operation's calculation of raw material used per ton of finished product.

3.0 Responsibility

Manufacturing Management and / or Material Control Coordinator

4.0 Safety Considerations

All safety glasses and appropriate safety apparel is to be worn at all times.

Safety is a condition of employment. Employees are not authorized to work in an unsafe manner and are prohibited from harming the environment of the facility or community.

5.0 Materials/Equipment

N/A

6.0 Procedure

1. Raw Material yield Calculation
    a. Daily Production is recorded in tons per day. A log of this production is kept
    b. Both Sulfuric Acid and Magnesium Oxide (MgO) are offloaded by car.
    c. The car numbers, weights and dates of each car offload is logged.
    d. Acid and MgO storage silos are measured daily
    e. At any given time a calculation can be performed to find the production yield using the following formula

- T = Total production (in tons) between specified times
- W = Total weight (in tons) of material offloaded between specified times
    - Use separate calculations for MgO and Acid
- X = Difference between beginning storage inventory and ending storage inventory (in tons)
    - Use separate calculations for MgO and Acid

$$T / (W+X) = \text{Raw Material yield for specified time}$$

7.0 Reference Documents

N/A

8.0 Change Information

New document.