Phoenix equipment corporation

Plant # 362

400,000 TPY Phosphoric Acid Plant

Capacity: 400,000 TPY
- (4) Production Lines x 100,000 TPY

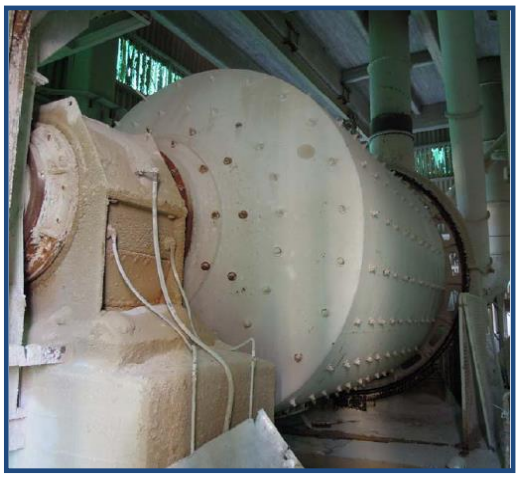
Technology
- Prayon

Year Shut
- 2010

Raw Materials
- Phosphate Rock & Sulfuric Acid

Process Information
- Dilhydrate Process – Wet Type
- (4) Stages: Grinding, Reaction, Filtration, Concentration
- Single Stage Filtration
- Wet rock grinding possible
- Easy transport of gypsum slurry

Major Equipment
- Phosphate Rock mills by Stein-Roubaix / Hardinge
- Vicarb Sulphuric Acid Diluter
- Reactor
- Phosphoric Acid Concentrator
- Slurry Filter
- Bag Filters
- Phosphate Rock Conveyor by Vidmar
- Phosphoric Acid Heat Exchanger
- Swenson Graphite Heat Exchanger
- Recirculation Pump
- Concentration Agitators



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BRIEF PLANT DESCRIPTION

Each of the four production lines is capable of producing 100,000 tons/year of P_2O_5 and underwent major revamps between 1992 & 2004. A new Swenson phosphoric acid concentration unit was installed in 2004. The dihydrate process consists of four stages: grinding, reaction, filtration, and concentration. The dehydrate process offers several advantages: it can be used with all types of phosphates (sedimentary or igneous); phosphate can be supplied in slurry form (wet grinding); it is easy to control the water balance (recycle pond water, reduction/elimination of liquid effluents); it achieves good P_2O_5 yield.