22,500 TPY SODIUM CYANIDE PLANT

Capacity: 22,500 TPY

Year Built: 1995

Year Shut: 2005

Feedstock: Ammonia

Caustic Soda

Methane

Major Equipment:

- Catalytic reactor
- Absorber
- Steam separator
- Filter
- Combustion system
- Compressor
- Super heater
- Vaporizer
- Re-boiler
- Cooling system
- Feed mixer
- Reactor economizer
- Heat exchangers

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BRIEF PROCESS DESCRIPTION

Caustic NaCN solution is produced with hydrocyanic acid which is fed into the crystallizer cycle and with sodium hydroxide solution (50 wt. %) which is added via the crystallizer. The reaction takes place within the crystallizer cycle. The heat required to evaporate the water of the caustic NaCN solution is added to the crystallizer cycle at the steam-heated reboiler. The residual uncondensed vapor is drawn off with the inert gases by a three-stage "steam jet injector". NH3 is formed by saponification of NaCN in the crystallizer cycle. The feed pump pumps part of the sodium cyanide suspension from the crystallizer cycle to the drum filter.

CONTACT US FOR MORE DETAILS