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USED 800 TPD UREA PLANT

Capacity: 800 TPD

Raw Materials: Ammonia and Carbon Dioxide

Process Information: Ammonia and carbon dioxide are reacted in high pressure and high temperature to form ammonium carbamate (urea solution).

Major Equipment

- CO2 compressors
- Ammonia compressors
- Ammonia condenser
- Urea reactor
- Primary decomposer separator
- Primary absorber •
- Secondary absorber •
- Desorber •
- CO2 scrubbers •
- Process water stripper
- **Evaporator** separator
- Wash tower
- Stripper
- For more

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Brief Plant Description

Used 880 TPD urea plant designed by Vulcan (CPI Allied). High pressure 6,000 psig, once through urea reactor capable of 80% CO2 conversion complete with zirconium liner and purge water protection system. The plant includes carbamate decomposer and ammonia stripper. Monoethanolamine based CO2 removal system. The plant has been uprated by addition of (1) additional CO2 compressor and (1) additional ammonia charge pump to achieve current capacity of 880 metric tons per day. CO2 compression using (3) Ingersol Rand heavy horizontal electric reciprocating compressors. Ammonia feed to reactor using (4) Worthington Septuplex plunger pumps. The product of this plant goes to Urea Granulation Plant #536 to make urea granules.