

Nitrogen Rejection Trains for Sale

Capacity

Design: 100 MMSCFD X 3 Trains
Operating: 120 MMSCFD X 3 Trains

Feedstock

Natural Gas

Outputs

Treated Natural Gas
Liquid Nitrogen

Plant History

1988 Built
2011 Shut Down

Major Equipment

- Demethanizer
- Low / high pressure column
- Heat pump suction scrubber
- Warm feed separator
- Multiple-stage feed separators
- Low / high level propane chillers
- Multiple-stage intercoolers
- Demethanizer reboiler
- Economizer
- Cold box
- Cold box vent drum
- Cold / warm subcoolers
- Feed expander
- Heat pump compressor
- High pressure reboiler / condenser
- Main Exchangers
- Side Condensers
- Main High pressure exchangers
- Recycle liquid flash tank



BRIEF PLANT DESCRIPTION

This Nitrogen Rejection Unit (NRU) is used to process raw natural gas or methane-rich gas from mining. It consists of three parallel trains to remove nitrogen from natural gas feedstock which has nitrogen composition varying from 2% to 80%. Each train has a compression column to reduce the temperature of the feed gas to a point where methane is liquefied and nitrogen is still of gas phase. A series of heat exchangers are used for distillation. The plant is capable of producing several combinations of product stream as follows:

- Nitrogen, methane-rich sales gas, and natural gas liquids. Ethane may be recovered in the sales gas or in the liquid product.
- Methane-rich sales gas and natural gas liquids from low percentage nitrogen feeds. Ethane may be recovered in the sales gas or in the liquid product.
- Nitrogen and methane-rich sales gas. Natural gas liquids removal is performed to the extent necessary to meet a maximum dew point specification for the sales gas.

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