

Project : Sour Water Stripper
Montreal, (Québec), Canada

Client : Shell Canada

Project Description :

The project's objective was to increase the capacity of the refinery's existing sour water stripper tower by 20% from 300 to 360 USGPM. Ultragen was given the mandate of performing the preliminary and detailed engineering design.

Ultragen was able to achieve the desired plant increase with minimal capital costs. The tower trays were replaced with high capacity units, and a new overhead condenser was installed. The later was a completely winterized (enclosed louvers design) air cooler with aluminum tubes.

Ultragen's team was also involved in modifying the auxiliary facilities : flare, feed and reflux piping systems, to accommodate the increase in capacity. The modifications required an extensive stress analysis of the mentioned piping systems.

The chief contaminants for removal were NH_3 and H_2S .



Year of realization : 2003
Project Value : 1.5 M\$

Services offered by Ultragen:

- Project Management
- Project cost estimation and scheduling
- Process simulation of stripper tower
- Specification of equipment (tower internals, condenser)
- 3D modeling and design of the piping systems
- Pre-operative testing and start-up assistance
- On-site technical support

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