

Project : Management of Butanes
Montreal, (Quebec), Canada

Client : Petro-Canada

Project description :

The project targeted a reduction in the amount of butane (C4) in the gasoline pool. Ultragen established with a thorough performance assessment that this would be addressed via the debottlenecking of the saturated gas recovery unit (GASCON).

The work involved the conversion of a deisopentanizer distillation column and its auxiliary systems into a gasoline debutanizer tower. This required that a portion of the tower's upper section be removed and replaced - on site - with a taller section reclaimed from an abandoned equipment at a remote refinery.

Ultragen's mandate consisted in establishing the new process conditions, designing the auxiliary equipment and piping and updating the control strategy for this unit. The project department coordinated the dismantling, shipment (from over 4000 km away) and field erection of the reclaimed tower section. The mechanical engineering group carried out the detailed calculations and generated the full specifications and accompanying documentation required for the welding in place of this section to the existing tower. In addition, the piping group generated the drawings and the stress calculations called for by this reconfiguration.

Refining

Year of realization : 2006 - 2007

Project value : 12 M\$

Services offered by Ultragen :

- Process study of the existing unit and simulation of planned modifications
- Project cost estimation and scheduling
- Project management
- Re-qualification calculations for pressure vessels
- Stress analysis of the updated piping network
- Technical support for the construction phase
- Start-up assistance

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