

Project : Diesel desulphurization unit
Montreal, (Quebec), Canada

Client : Petro-Canada

Project description :

To comply with Phase II of the new environmental regulations limiting the sulphur levels in automotive diesel, Petro-Canada had to build a new distillate desulphurization unit. SNC-Lavalin was mandated by Petro-Canada to deliver this project under an EPCM contract.

At the early scheduling and resource attribution stages of the project, SNC-Lavalin decided to retain Ultragen as a sub-contractor for the management and coordination of the process and mechanical engineering activities. The involvement of Ultragen in these areas amounted to an estimated 40% of the combined labour efforts.

Ultragen's process team was involved in the process modelling and process flow sheet development aspects of the mandate which included the finalisation of the PFD's and P&ID's. The mechanical and piping group assumed the leadership of the joint mechanical design group at SNC-Lavalin's head office and was responsible for the overall plant and piping layouts. In addition, this group carried out the mechanical stress analysis calculations for the entire piping network.

Refining

Year of realization : 2005 - 2006
Project value : 200 M\$

Services offered by Ultragen :

- Revamping of the existing hydrotreating unit
- Field confirmation of tie-ins at the battery limits
- Equipment and instrumentation specifications
- 3D modelling of the general layout for the new unit
- 3D modelling of the overall piping network
- Mechanical stress analysis of the entire piping network

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