



Refining



Project : Revamping of cooling towers
Montreal, (Québec), Canada

Client : Shell Canada

Project Description :

The project was aimed at restoring and optimizing the performance of 4 existing cooling towers located at the resid catalytic cracking unit (RCCU). These cooling towers represent the main cooling system for the refinery, feeding four of the major refinery units.

The objective of the project was to increase the efficiency of the system without modifying the current structure. The project also entailed the automation of the cooling tower's operation. One of the main challenges encountered was to minimize the impact of the project construction on the unit's production.

Ultragen was mandated to perform the feasibility study, the preliminary engineering, detailed engineering, and construction management. The work included ,amongst others, the replacement of all internals, the design of two (2) new electrical stations, the installation of a new DCS process, and the definition of the new control strategy.

The adopted solution was chosen on the basis of cost-effectiveness, performance, and quality. The performance of the cooling tower system was improved by 25% and the project construction had no impact on production. No injuries were reported during construction.

Year of realization : 2007-2009
Project Value : 8 M\$

Services offered by Ultragen :

- Project Management
- Project cost estimation and scheduling
- Definition of cooling tower performance criteria
- Design of 2 electrical stations
- On-site technical support
- Pre-operative testing and start-up assistance
- Construction Management

T +1 (450) 650-0770
F +1 (450) 650-0780
www.ultragen.com

50, Rue de Lauzon, 2^e étage, Boucherville
(Québec) Canada, J4B 1E6