

Project : Revamp of flare systems
Montreal (Quebec), Canada

Client : Shell Canada

Project description :

Royal Dutch Shell has revised its flare system standards with the objective of increasing safety and minimizing the risks associated with the emission of non combustible gases causing flame losses. To meet the new standards, the Montreal-East refinery was compelled to refurbish 3 of its existing flare systems.

Ultragen was given the mechanical and instrumentation mandate of upgrade the exiting flare systems to the new standards.

The modifications on each flare included: the installation of 3 new pilot burners capable of withstanding a wind velocity of 270 km/h, the installation of 2 new ignition systems (manual and automatic), the installation of a triple redundancy flame detection system equipped with 6 thermocouples and 3 acoustic sensors confirming the presence of a flame.

The pilot burners along with the flare chimney have been replaced. A new PLC allowing the control of all operational and safety elements has also been put in place.

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Year of realization : 2006 & 2007
Project value : 3 flares at 2,5 M\$ = 7,5 M\$

Services offered by Ultragen :

- Specification of burners
- Design of gas feed system
- Design and programming of burner control system
- 3D modeling and design of the piping system
- Analysis of piping system constraints
- On-site technical support 24h/day during shutdowns
- Pre-operative testing and start-up assistance

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