Project Profile – Complete Heat Management System Turnkey Provider

Project Description

- **Client/Owner:** Shell Canada Ltd.
- **Location:** Winnipeg, Manitoba - Canada
- **Application:** Process Temperature Maintenance, Tank Insulation
- **Technology:** Trac-Loc Vertical Lock-Seam Tank Insulation System, Raychem XTV Self-Regulating Heating System
- **Date Initiated / Completed:** March 2010 – April 2010
- **Contract Scope:** Engineering, Design, Manufacturing, Installation

For over 25 years, The Tracer Services division of Tyco Thermal Controls has been widely regarded as the premier provider of turnkey heat-tracing services and engineered product solutions in the industrial marketplace.

A Heat Management System (HMS) is an engineered system designed to maintain or protect process piping, equipment, vessels and instruments at predetermined temperatures and within defined criteria.

Project Details

Shell Canada Ltd. expanded their biodiesel terminal in Winnipeg, Manitoba so that it could store B100 which is a pure biodiesel product. It has a higher gel point than regular diesel and requires more precise temperature maintenance. CH2M Hill, of Burnaby, B.C., was responsible for the design and construction of the tank and piping system that held and distributed the B100. Tyco Thermal Controls provided a complete turnkey Heat Management System (HMS) for the piping as well as heat tracing and insulation of the tank.
Tyco Thermal Controls Provides Single Source for Complete HMS System

The client had an aggressive scheduled in place and our Tracer Services division was up to the challenge. This was a unique project that involved detailed design of both heat tracing in combination with insulation on the B100 tank. Raychem XTV heating cable was used for design flexibility to maintain accurate temperatures. Trac-Loc advanced interlock standing seam panel system was use to insulate the tank.

We coordinated all the EHT piping, tank design and Trac-Loc from a single location in our Kitchener Services office in Canada. In addition, resources were leveraged from our service centers in Houston and Edmonton. By leveraging knowledge and talent from multiple service centers, we were able to quickly adapt to project changes and ultimately beat Shell’s aggressive schedule.

Both Shell and CH2M Hill were very impressed with the value we added to this project. Our work immediately attributed to an additional contract to provide materials for another biodiesel project. They have commented that they would look to Tyco Thermal Controls again for full electrical scope as it related to all heat-tracing systems.

Trac-Loc Insulation System

The Tracer Trac-Loc system is a vertical double-locking standing seam insulation panel system that’s unique in its design, panel construction and installation techniques.

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