

ALBIAN SANDS ENERGY PROJECT

PROJECT DETAILS

Client:	Albian Sands Energy Inc.
Location:	Fort McMurray, Alberta, Canada
Completion Date:	2003
Contract Scope:	Engineering & Design, EHT Material Supply, Installation (inclusive of all labor, supervision and commissioning for the Electrical Heat Tracing System)
Applications:	Temperature Maintenance and Pipe Freeze Protection for Pipes, Equipment and Vessels
Technology:	nVent RAYCHEM Self-Regulating and nVent Pyrotex Mineral Insulated Heat Tracing Systems and Control & Monitoring Systems



KEY CHALLENGES

Albian Sands Energy was undergoing an expansion, from 2001 to 2003, to better meet the feedstock demands of Shell's Athabasca Oil Sands Development Project. During the expansion, a fire occurred which destroyed much of the pipe-racks and associated equipment and controls. Albian's challenge was to mobilize a team of contractors to work together to demo, redesign, and re-install all damaged or destroyed systems within a tight schedule that would support the Shell AOSD Project's need for feedstock.

SOLUTION

nVent was already on site providing Engineering & Design services – as well as EHT Material & Controls, Quality Supervision, and Commissioning Services – for the ongoing expansion. After the fire, Albian quickly contracted nVent for all Engineering & Design, Material Supply, and Construction for the Fire Rebuild Project. In order to meet their tight schedule, nVent mobilized a team of designers to the jobsite to assess, demo, and redesign all heat trace circuits and EHT materials. Being that much of the material needed was Mineral Insulated Cable, which has a longer delivery time than Self-Regulating Cable, nVent decided to have the material fabricated in the Trenton facility and terminated either on site or in the Edmonton office in order to facilitate a faster turnaround. Similarly, the Control Panels – many of which have a 4-6 week delivery time – were given priority status and ultimately air-freighted to the job site for final testing and commissioning. nVent was able to meet the very demanding time schedule by integrating all aspects of our turnkey delivery system and ensuring tight linkages that resulted in a high quality system solution.

PRODUCTS

To meet the needs of this challenging application, nVent offered a Heat Management System which included:

- Mineral Insulated Heating Cable
- Self-Regulating Heating Cable
- Control & Monitoring Panels

BENEFITS

The benefits to Albion – and, ultimately to Shell as the downstream recipient of the feedstock – included a high-quality system that was designed, installed, and commissioned within a previously established time-line committed to by Albion and Shell. nVent's ability to respond to a crisis-project is one of its unique advantages in the marketplace and this project highlighted just how beneficial that responsiveness can be to customers.

With decades of experience in designing, manufacturing and installing heat management systems, nVent was able to provide a comprehensive solution to Albion Sands Energy's unique needs, including the use of multiple heat tracing technologies, a more reliable heat-tracing system, all while meeting the expedited delivery schedule which allowed marginal room for error.

nVent provides unique solutions for various applications and offers a full suite of optimization strategies customized for a given application resulting in reduced CAPEX/OPEX for the project.

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