

ELECTRIC HEAT-TRACING SYSTEM INSTALLED AT A PETROLEUM REFINERY

PROJECT DETAILS

Location:	Martinez, CA, USA
Completion Date:	October 2007
Contract Scope:	Engineering, product and construction 7,000 ft of self-regulating heating cable, 40 control circuits
Applications:	Electric heat tracing with electronic control & monitoring
Technology:	nVent RAYCHEM XTV self-regulating cable with RAYCHEM 920 Control Systems



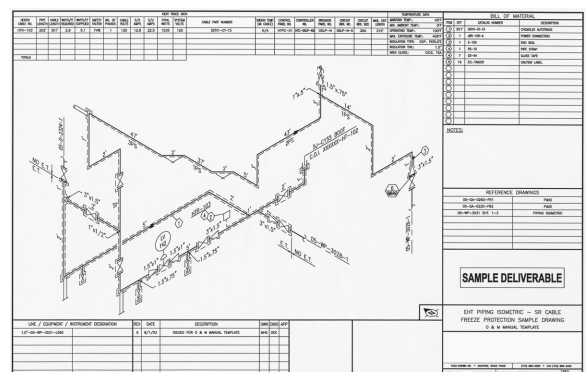
KEY CHALLENGES

A Refinery in Martinez, CA needed its Amorco Wharf pump station and transfer lines heat traced to ensure crude oil flow from its off-load wharf to a series of storage tanks. Detailed engineering drawings for the heat tracing did not exist and the project proved to be complicated due to the intricate valve piping at the pump station. The client had a tight deadline and so they solicited nVent Industrial Heat Tracing Solutions Tracer Turnkey Solutions team.

SOLUTION

Due of the variety of pipe sizes, high number of large and small valve assemblies and the tight maintain temperature requirements, the heat-tracing design required creative solutions and flexibility to best meet the customer's needs.

nVent's Tracer Turnkey Solutions team of engineers visited the refinery and completed a field design by taking pipe measurements and designing the heat-tracing system on site. They worked with the local refinery personnel to define the necessary power distribution needs, power-point locations, necessary control and monitoring solutions and heat-tracing cable recommendations.





nVent provided a unique controls solution that allowed the client to realize reduced on-site installation time and expenses.



nVent perfect safety record on this project is indicative of the safety culture that we bring to all of our activities.

PRODUCTS

Our experience with crude oil transfer and marine applications allowed the team to develop a timely and cost-effective solution for the Refinery. The team installed 7,000 ft. of self-regulating heating cable and 40 control circuits. The RAYCHEM XTV self-regulating cable was specified for all of the piping in order to minimize the installation costs as well as to ensure specified maintain temperatures were met.

In addition, RAYCHEM 920 control and monitoring panels were combined with transformers and power distribution panels in a self-contained skid to reduce on-site installation time and expense.

BENEFITS

- The installation was completed in October 2007 in accordance with Tracer Turnkey Solutions safe practices resulting in a 100 percent safety record on the project. The successful installation of the new heat-tracing system allows Refinery to seamlessly pump crude oil from its Amorco Wharf pump station to the storage tanks also received a Warm Pipe Warranty as a guarantee of the quality of the installation.
- Experience, creativity and flexibility were key in completing this refinery project. Put these traits and capabilities to work for you on your next job.

For over 30 years, nVent has satisfied the unique requirements of various industries through innovative engineering, design and construction services complemented by a wide range of products and technologies.

The petroleum industry is one example where, through strategic utilization of our resources, nVent's Tracer Turnkey Solutions team provides our customers with the best and most cost-effective heat-tracing solutions.

Experience in design, experience in installation, experience in applications. Our Tracer Turnkey Solutions experience and perspective makes the difference on every project, especially on projects where complicated piping layouts and tight schedules require innovative solutions and skilled competency.

North America

Tel +1.800.545.6258
Fax +1.800.527.5703
thermal.info@nvent.com

Europe, Middle East, Africa

Tel +32.16.213.511
Fax +32.16.213.604
thermal.info@nvent.com

Asia Pacific

Tel +86.21.2412.1688
Fax +86.21.5426.3167
cn.thermal.info@nvent.com

Latin America

Tel +1.713.868.4800
Fax +1.713.868.2333
thermal.info@nvent.com



nVent.com

Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER