

NVENT FLEXIBILITY AND EXPERTISE PROVE KEY TO SUCCESS AT SLOVNAFT REFINERY

PROJECT DETAILS

Client:	Mol Hungarian Oil & Gas
Location:	Slovnaft Refinery, Czech Republic
Completion Date:	2012
Contract Scope:	Heat-tracing systems design, Heat-tracing systems manufacture and supply, Supervision of installation, System commissioning
Applications:	nVent RAYCHEM BTV-CR self-regulating heating cables, RAYCHEM HAA2 mineral insulated (MI) series heating cables, RAYCHEM VPL power-limiting parallel heating cables, Heat-shrink accessories, RAYCHEM MONI-PT100 – 4/20 mA temperature sensors, RAYCHEM RAYSTAT-CONTROL-10 surface-sensing electronic thermostats, Power supply system
Technology:	Electric heat-tracing, Control and Monitoring systems



KEY CHALLENGES

The Slovnaft project called for the frost protection of numerous pipes, pipe racks and vessels containing condensate water and steam. They were all sited outside the process buildings and subjected to ambient temperatures down to -25°C. In addition, two large silos containing powdered gypsum were to be traced. Faced with a high heat-loss and a demand for high power, the requirement was to achieve a maintain temperature of 30°C.

The task was complicated by the client's request for a large number of additions and modifications to the EHT system once the installation teams were on-site. This almost doubled the size of the project.



Heat-tracing installation



RAYSTAT-CONTROL-10

SOLUTION

nVent response was to create a full Engineering, Procurement and Construction (EPC) solution.

Frost protection for the pipes and vessels is mainly by self-regulating cables. Power-limiting cables were used in areas that required exposure to high temperatures. Some 55 circuits were designed and installed in these areas.

Mineral insulated cables maintain the temperature of the two 5 metre diameter x 15m high gypsum silos. These systems were designed with a total of 13 circuits for each silo to enable easy removal during cleaning. Control is provided by a combination of RAYCHEM temperature sensors and electronic thermostats.

The installation of almost 2,500 metres of heat-trace cabling was completed in just eight weeks. This included numerous additional requests made on-site to which nVent Czech responded quickly and efficiently. Recognition of this expertise led to the company becoming the leading contractor for the whole electrical installation on the project's second phase.

The result is an Electric Heat-Trace system that has met all of Andritz and MOL's needs. Commenting on the success of the project, Wolfgang Selenko of Andritz said: "nVent' previous experience of working at the refinery and MOL's satisfaction with this was a deciding factor. It proved to be the right decision." He continued: "Their excellent communications, flexibility and technical expertise, especially when asked to meet our increased demands on-site, has resulted in a successful outcome for all concerned."

BENEFITS

- Wide cable technology range provides the right solution for differing plant requirements
- Dual-core MI cabling dramatically reduces installation time and cost
- Multiple-office teamwork provides a full EPC solution
- On-site flexibility and expertise enable effective problem solving

nVent has provided an effective electric heat-tracing (EHT) solution for a new flue gas desulphurisation plant at the refinery in Slovnaft, Bratislava owned by MOL Hungarian Oil and Gas.

The project was carried out by nVent' office in the Czech Republic in conjunction with the company's offices in Germany and Poland. The plant's main contractor was Austrian engineering company Andritz Energy and Environment.

MOL Hungarian Oil and Gas Company employs over 32,000 people and has an annual turnover exceeding \$ 23,000 million. Its petrochemical business is the leading polymer player in CEE and among the top ten players in the European polymer market. For more information visit www.mol.hu/en

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