

Automation Systems for AK "Transneft" Oil Pumping Stations: Nizhneudinsk, Ternovka, Grachi



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Founding year:

1991

Employees:

380

Solution Partner: SMS AUTOMATION GROUP

Customer: AK "Transneft" RU

Industry: Pipeline

Requirements of the customer:

- Retrofit OPS automation systems on turnkey basis
- Replace relay control systems with microprocessor automation systems
- Implement line and station telemechanics systems and reference parameters monitoring systems at local control centers
- Provide detailed online diagnostics of OPS
- Ensure full redundancy of the control systems main components
- Perform complex systems testing in the customer's specialized center
- Provide vibration and temperature monitoring

Short description of the solution:

Integrated oil pump station automation system based on PCS7 and WinCC OA including pump station control system, automatic pressure regulation system, line and station telemechanics, reference parameters monitoring system, fire extinguishing system.

Solution
Partner

Automation
Drives

SIEMENS



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Implementation by the Solution Partner:

- Systems based on SMS own development: Transcont software and hardware package
- Microprocessor automation system and automatic pressure regulation system are based on SIMATIC PCS7
- Line telemechanics, remote metering and reference parameters monitoring systems are based on WinCC OA.
- IEC 60870-5-101 protocol driver for WinCC OA was rewritten to match non-standard customer's equipment

Benefits for the customer:

- It's the first time for the customer when...
- line and station telemechanics systems are based on standard, commercially available soft- and hardware without any secured and non-standard developments;
- controllers and operator level software of microprocessor automation system and automatic pressure regulation systems is implemented in single project.

