Press release
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KazTransOil completes SCADA integration of the Atasu–Alashankou main oil pipeline

KazTransOil JSC has completed the integration of the SCADA system of the Atasu–Alashankou main oil pipeline, operated by Kazakhstan-China Pipeline LLP, into KazTransOil’s supervisory control and data acquisition system. This marks the final stage in establishing a unified operational control center for oil transportation across the main pipeline network operated by KazTransOil JSC and its subsidiaries and jointly controlled entities.

«The establishment of a centralized dispatch control system is the result of a phased modernization process launched in 2003. Over two successive stages, the Company transitioned from a four-tier to a two-tier operational management structure for oil transportation. In 2009, the Company introduced the capability to control process facilities from the Central Dispatch Centers (CDCs) in Pavlodar and Atyrau. At that stage, the Regional Dispatch Centre (RDC) was abolished, while the Main Dispatch Department (MDD) retained its overall supervisory functions. In 2017, direct operational control of process facilities was transferred to the MDD in Astana, and the intermediate CDC level was eliminated from the management structure. Following this transition, seven technological sections were established, bringing main oil pipeline facilities together within a unified dispatch control system. The move to a two-tier structure improved decision-making speed and enhanced the efficiency of dispatch operations», said Daniyar Tasybayev, Director of KazTransOil JSC’s Oil Transportation Control Centre branch.

The integration of the Atasu–Alashankou pipeline’s SCADA system represents the final stage of this transformation. As a result, an eighth technological section (Section No. 8) has been established, comprising Oil Pumping Stations Nos. 8, 9, 10 and 11, as well as line valve assemblies.

As part of the project, SCADA hardware and software solutions were integrated, network connectivity was configured, and the required level of information security was ensured. Comprehensive testing was also carried out to verify control algorithms, protection and interlocking systems, and emergency alarm functions.

The project marks an important milestone in the continued development of KazTransOil’s production and digital infrastructure. Its implementation is aimed at strengthening the Company’s technological capabilities, improving operational efficiency and further advancing the infrastructure of Kazakhstan’s national oil pipeline operator.

The project is of strategic importance in ensuring the reliable and uninterrupted transportation of oil to domestic and international markets, safeguarding the interests of the Republic of Kazakhstan and market participants, and meeting the country’s international commitments in the field of oil transportation through main pipeline systems.

The Supervisory Control and Data Acquisition (SCADA) system enables continuous real-time monitoring and control of oil transportation processes, remote operation of process equipment and monitoring of its operating parameters. Through this system, KazTransOil's Main Dispatch Department provides centralised operational control over eight technological sections and their associated facilities, which are geographically distributed across eleven regions of Kazakhstan.

KazTransOil JSC is the national operator of the main oil pipeline system. It is a subsidiary of KazMunayGas NC JSC. The company owns a diversified network of main oil pipelines with a total length of 5,200 km and provides pipeline operation services for third-party organizations, covering an additional 5,000 km of pipelines.

“KazTransOil” JSC
public relations and
internal communications department