

## **Annotation**

The diploma project is dedicated to the development of a gas flow control system in the filter-separator block at the compressor station and is carried out as part of the project «Increasing the capacity of the Kazakhstan-China gas pipeline (thread «C»»).

Within the framework of the project, automation schemes were developed, a comparative analysis was conducted and the choice of automation equipment and controllers was justified, and an algorithm for controlling gas flows was compiled. The software part was performed in the Tia Portal program, and the SCADA-system for automatic and manual control of the object was executed using WinCC. Technical and economic indicators were calculated, life safety issues were solved, individual tasks on automatic control theory and theoretical foundations of electrical engineering were also completed.