

Actuator retrofit improves safety at tank farm

Koluszki tank farm, Poland

AR17002 | AUMA APPLICATION REPORT

An upgrade and retrofit project based on AUMA electric actuators has increased safety at the Koluszki tank farm by establishing an effective overfill protection.

The AUMA Service supported the complex actuator replacement across all project phases - on schedule and to full customer satisfaction.



One of the leaders in the storage and trans-shipment of liquid fuels in Poland, wanted to install a new safety system at its Koluszki tank farm to protect the storage tanks against over-filling. The tank farm lies on the outskirts of Koluszki, a town in central Poland, 25 km east of Łódź. The tank farm is used to store fuels for distribution, and to maintain national strategic fuel reserves.

As part of the new system a dedicated emergency shutdown (ESD) function had to be added to the tank valves, alongside the Profibus DP system used for normal control.

COMPREHENSIVE, SINGLE-SOURCE SOLUTION

AUMA was the main contractor for the actuator upgrade. The scope of supply included 94 new SAEx actuators with ACEXC 01.2 actuator controls, which feature both Profibus DP and a separate hard-wired ESD input. 29 existing AUMA actuators were also retrofitted with the ESD functionality.

The AUMA team also took care of designing and supplying adapters to connect old non-standard valves to the new actuators, removing the old actuators, replacing over-current protection devices, and making changes in the control room to provide the 24 V DC electrical supply needed for the ESD system.

The entire retrofit was completed within schedule and to the full satisfaction of the customer.



OIL & GAS

APPLICATION

Tank farm

AUMA SOLUTION

- > Retrofit | Replacement
- > SAEx actuators with intelligent ACEXC 01.2 actuator controls
- > Profibus DP
- > Separate ESD input
- > Tailor-made adapters
- > Project management & on-site service

CUSTOMER BENEFITS

- > Enhanced plant safety
- > Timely, single-source project management by AUMA

Project responsibility:
AUMA Poland

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