AUTOMATION AND MONITORING SYSTEM OF HYDRAULIC STRUCTURES OF MIEDZNA RESERVOIR

WZMIUW (VOIVODESHIP MANAGEMENT OF DRAINAGE, IRRRIGATION AND INFRASTRUCTURE) LODZ – PROJECT ANALYSIS

AUTOMATION AND MONITORING SYSTEM OF HYDRAULIC STRUCTURES OF MIEDZNA RESERVOIR

Site automation system and hydro/meteorological measurement system.

The task was a complex range of work, starting from recreating electrical wiring, power supply systems, data control, new control cabinets, datalogging and communication systems concerning control and power supply systems of the main dam along with pumping stations „Ossa” and „Nadole”.
Hydro-meteorological monitoring system is used for controlling and measuring tasks. Additionally it sends information to the automation system which controls the state of the dam.

Customer:
WZMiUW Lodz

Location:
Miedzna Village, Bialaczow Commune, County of Opoczno

Design:
AUTOMATION AND MONITORING SYSTEM OF HYDRAULIC STRUCTURES OF MIEDZNA RESERVOIR

Equipment:
4 cabinets with control and power supply elements

3 meteorological multisensors WXT520

4 water flow measuring sensors (bottom outlets, water spout, drainage)

5 surface water level measuring stations

15 groundwater measurement stations

WORKS

- Electrical wiring, grid hookup of the system, power supply systems for various automation elements, data control, datalogging and communication systems
- Full hydrological and meteorological measurements needed to make the reservoir control modern and economical
- Developing and implementing an override system for automation basing on meteo and human influence.

SUMMARY

- Construction of system for automation and control
- Construction of system for hydro – and meteorological measurements
- Processing, visualizing and archiving of measurement data in Hydrowskaz.pl

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