

IDS Conducts Control System Engineering Study for Power Generating Station



INDUSTRIAL DESIGN SOLUTIONS

In 2017, a power generating station selected control systems integrator Industrial Design Solutions to conduct an engineering study evaluating modernization options for the plant's aging DCS infrastructure.

BACKGROUND

Legacy control system components can lead to failures, unplanned outages, and even long-term shutdowns due to ineffective or inoperable equipment. A large power company contracted IDS to provide a detailed engineering study to evaluate the obsolescence and longevity of the plant's control system.

SOLUTION

Systems integrator IDS performed a cost-benefit analysis for various migration strategies, generating hardware, engineering, and construction cost estimates for modernization solutions that were customized for the plant's needs. This information will assist the plant with determining a path forward towards the most cost-effective modernization strategies.



- Complete plant control system documentation including I/O count with voltage levels
- Development of DCS vendor support timeline and life-cycle analysis
- Identification of obsolete equipment and DCS reliability issues
- Migration path assessment
- Recommendations based on risk tolerance and plant budget
- Budgetary estimate of migration paths, with hardware lists and cash flow analysis
- Development of possible modernization schedules

THE BOTTOM LINE

Conducting an engineering study with IDS will provide you with clear direction for a reliable future for your plant's control system.

SOLUTION BENEFITS

- Single or multiple DCS vendor modernization strategies
- Detailed recommendations using careful evaluation of product life-cycles
- Ensure maintainability and reliability, and extend the life of your control system

SOLUTION ROI

- Clear budgetary analysis of modernization options improves decision making
- Includes detailed cash flow analysis for accurate cost projection
- Determines best upgrade strategies to meet needs within various constraints

SOLUTION PLATFORM

- Honeywell Experion PKS control system with simulated C300 controllers
- Honeywell UniSim Design plant model
- Honeywell UniSim Operations simulation environment

623-434-0183
IDSpower.com

Project Duration: 2-3 months