



Wastech Controls & Engineering Switches to AutoCAD P&ID

Leading Process Integrator Benefits from 'Smart Drawings'

Overview

Wastech Controls & Engineering, Inc. is a leading process system integrator specializing in the design and manufacture of industrial wastewater treatment, and chemical delivery systems. Wastech Controls & Engineering has been designing and building Process Systems and Automation Systems since 1986, using AutoCAD up until last year for their in-house templates to create and modify P&ID's.

Challenge

When the company started to work with KETIV Technologies, California's leading Autodesk solutions provider, Wastech Controls & Engineering was using generic AutoCAD with in-house templates to create and modify P&ID's. These drawings were not "smart" and were a mere collection of basic entities such as lines and blocks. The company saw a need for more accurate and timely P&ID development and realized it needed something more than a generalized CAD tool. Vice President of Operations, Kevin Holm implemented AutoCAD P&ID after KETIV demonstrated how this would improve quality, reduce production time, and eliminate rework.

Solution

It's all about the process. Every design at Wastech Controls & Engineering starts with a P&ID, which defines the process flow, control strategies, construction materials, and equipment sizing. AutoCAD P&ID helps the company in three specific ways:

Graphical creation – AutoCAD P&ID consists of time-saving methods for inserting symbol libraries, including valves and actuators, which can be customized to meet the company's specific requirements. AutoCAD P&ID also automates the process of clean-up during insertion of symbols logically.

Data driven graphical modifications – AutoCAD P&ID assures a direct correlation between the drawing and the intelligent attribute database. Tasks such as changing the diameter of a complete line, including all inline assets and nozzles, can be completed in a fraction of the time it would take with generic AutoCAD.

Intelligent Data Extraction – Using AutoCAD P&ID, Wastech Controls & Engineering applies intelligent tags to equipment, which has eliminated the cost associated with duplicates or other forms of manual error. This also shortens the review and approval cycle for a project. Intelligent, associative equipment lists are generated for accurate estimation of project cost.



Holm says, "AutoCAD P&ID is a natural extension of AutoCAD, and the familiar environment makes it easy to learn and use. It has full compatibility with AutoCAD, and gives us the ability to re-use and standardize our drawings. The Project environment helps our designers manage and control complex packages without the risk of error."

Wastech Controls & Engineering has fully implemented AutoCAD P&ID for creating all their process and instrumentation diagrams. They are able deliver intelligent designs faster for their customers that include Genentech, Amgen, Nobel Biocare, Pratt and Whitney, Cessna, and Sandia and Livermore National Laboratories.

The KETIV Difference

By partnering with KETIV to implement Autodesk's comprehensive design solution, Wastech Controls and Engineering was able to meet their objective of deliveries that are on time and under budget, while improving their competitiveness and profitability.

Holm commented, "We could not have done it without KETIV. Being a small company, our internal resources are limited. We do not have the time or the skills needed to implement Autodesk products efficiently. As the only local Premier Solutions Provider for Autodesk's Manufacturing products, KETIV supports our installation, and provides us with on-going training, and consulting services to ensure that our engineers maintain a high level of productivity."

About KETIV Technologies

KETIV Technologies is a leading Autodesk solutions provider with 25 years' experience delivering CAD software and services. KETIV's team of industry experts increase the profitability of engineering services companies by helping them simplify the process of conceptualization, design and production. KETIV serves the manufacturing, plant, and civil engineering industries.

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