

TEST CASE: PHOSPHOROUS REMOVAL FACILITY IMPLEMENTATION



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ABSTRACT

ToxSorb is a water technology company specializing in the design, construction and operation of customized filtration systems using its proprietary Modified Activated Carbon (MAC) media, engineered to remove specific contaminants from water. Unlike most water engineering firms, ToxSorb customizes each solution based on the unique water chemistry and effluent demands of the client. Our objective is simple: to design the most cost-efficient solution chemistry is capable of, leveraging state of the art technology and process knowhow.

The typical ToxSorb project is full turnkey. One of the main cost drivers of the project is the PLC code. All projects require changes to PLC code during plant commissioning and operation. The amount and seriousness of the required changes, and the time needed to design and implement them present costs which are reflected in the project budget. ToxSorb needed a solution that brought this critical part of plant design and commissioning back into our control.

THE SOLUTION

After reviewing our options, we decided on **WonderLogix Enterprise Platform**. We found the program to be intuitive, and easy to learn and master. ToxSorb sent two process engineers for training at WonderLogix offices. The engineers were not programmers, or experienced in programming. With a 1-day training session and minimal phone support, they were able to design a control system for a new Phosphorous Removal Facility. The engineers used WonderLogix to debug the design, generate the required PLC code, download the code to the plants control system, and commission the plant.

In order to fit with WonderLogix current code generation capabilities, we changed our default PLC to **Rockwell Automation's ControlLogix**. A full set of documentation for the control system was generated by WonderLogix and used as reference for plant personnel. The entire process from design to commissioning was performed without contractors. This allowed ToxSorb to control costs and ensure high quality installation.



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