Owner Specific SCADA Standards

What They Are and Why Should You Have Them

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FORMAT

30 minute presentation

KEYWORDS

SCADA Systems, Standards, Water treatment, Wastewater Treatment, Instrumentation

ABSTRACT

About ten years ago, the Portland Water District recognized the need to improve the quality and consistency of the end product for SCADA System related projects. Engineering and construction firms were imposing their design elements on the District, which created very different results between projects. This created stress points for the plant operators and the maintenance staff. It also impacted the performance and quality of the SCADA System.

The District worked with a third party external consultant, back in 2004 to develop a basic framework for the Portland Water District SCADA Standards. Since then, the District has made numerous changes to its standards, making it their own. This presentation will describe what SCADA Standards are and why every water/wastewater district needs them, all from a system owner's prospective. It will also present excerpts from the Portland Water District's own owner-specific SCADA standards. Furthermore, the presentation will discuss case examples of how the district's standards have improved the overall quality of the district's SCADA systems, improved plant operations and made the jobs of maintenance staff easier.

About the Author:

Emile L. Richard, PE is a Project Manager Engineer with the Portland Water District where he provides support for the SCADA System, and manages Instrumentation Department. Emile has been with the Portland Water District for 14 years, and prior to that worked 15 years in the industrial sector. He received a BS from the University of Maine and an MS from the University of Notre Dame (both in chemical engineering). He is a senior member of ISA and a Level 3 CCST (ISA Certified Control Systems Technician).