

Naches-Selah Irrigation District

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Final Report: SCADA/Canal Automation, Phase 3

Project: SCADA/Canal Automation, Phase 3
Grant Agreement No.: No. 4
Date: July 21, 2009
Reporting Period: July 1, 2008 to June 30, 2009
District: Naches-Selah Irrigation District
Prepared By: Justin Harter, District Manager

Project Description:

NSID received this grant toward further development of the Supervisory Control And Data Acquisition (SCADA telemetry) and automation of the District main canal and laterals. Two automated gates were added to the existing SCADA system to provide control and regulation of the No. 3 Lateral that serves the northern portion of NSID.

Goals and Objectives Accomplished

Rubicon Systems FlumeGates were selected to match the gates already installed.

By late January, District crews began preparing the two structures where the automated gates were to be installed. Concrete structures were poured the first part of March.

The two gates were received April 4. All gates were installed by April 12 after priming of the canals. The Rubicon technician commissioned the gates the second week of April. The gates were operated in local control to automatically maintain canal levels at the gates.

The gates have been performing as expected. The District has benefited from increased control of the canals. The gates provide level and flow measurements at each site. This information along with other SCADA sensors provide real time system conditions. This information is used for operational decision support. The gates are controlled remotely for faster response without the need of traveling to multiple sites to regulate these sections of canals.

Costs

Total project came in over budget. Additional features and functions were added to No. 3 Wasteway site after application for the grant. NSID appreciates the grant support for these improvements.

Summary

Phase 3 increased the miles of canal operating under the SCADA system. SCADA coverage has been extended to all canals and canal laterals. The increased control and condition awareness supports better regulation of the system. The goals of Phase 3 have been achieved.

