May 5, 2026

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Kyle Stephens

City of Camas
WWTP Operations Manager
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Subject: Proposal for SCADA System Replacement, Rev 2

Mr. Stephens,

OCD Automation Inc. is pleased to provide this proposal for systems integration services to replace the Camas Wastewater Treatment Plant (WWTP) Supervisory Control and Data Acquisition (SCADA) graphical interface software and redevelop the interface graphics to align with industry standard graphics, features, and data collection methods.

Project Description

The current graphical interface software used in the wastewater treatment plant SCADA system is Wonderware InTouch. While this system performs adequately it does have occasional unplanned outages. Additionally, Wonderware InTouch is lacking in standardized features and functionality that are now industry standards which provide intuitive interfaces and clear and concise identification of issues. Some of these desired features are related to the software package itself and can be integrated with additional licensing and application updates. However, most of the desired new features require significant rework and redevelopment of the Camas WWTP graphics application itself. Additionally, the alarm paging software in use (Win911) has compatibility and reliability issues that keep it from being a dependable choice, which has forced the plant to utilize a Mission RTU dialer system that can only annunciate a fixed number of plant alarms.

Based on the level of redevelopment and additional licensing involved, the city has decided that redevelopment of the SCADA wastewater application using the newer Ignition SCADA platform provides more value as the Ignition software package provides more standard features, higher reliability, and simpler integration. The new software also utilizes a simpler and more transparent licensing model for the initial deployment and ongoing software maintenance. Additionally, the new software package can more easily build upon the recently replaced PLC-C and PLC-D hardware for the establishment of standardized and reusable graphical objects, indicators, and alarms. A summary of key features that improve the Camas WWTP system and are included within the new software platform are listed in the following section.

OCD Automation is well positioned to support Camas effectively in the project with our deep understanding of System Control and Data Acquisition (SCADA) systems, our depth of highly skilled technical staff near the wastewater treatment plant, and our familiarity and experiential knowledge of the plant itself. OCD Automation's employee Jake Ositis will be primarily supporting this project, and Jake brings years of earned experience from his support of multiple municipalities and water providers throughout the Pacific Northwest. Furthermore, OCD Automation has been actively supporting the Camas Wastewater Treatment plant for over a decade and is familiar with the people, protocols, and expectations of the City of Camas for the successful execution of this work. Jake will be supported by a talented team as all OCD Automation employees are effective at programming the PLCs and Human-Machine-Interface software (HMI) utilized at the Camas Wastewater Treatment plant. Additionally, all OCD Automation staff can directly execute troubleshooting of controls system signals, networks, instrumentation, automation components as issues arise.

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New SCADA Software – Ignition SCADA from Inductive Automation

The Ignition SCADA software by Inductive Automation is a modern, full-featured, and reliable SCADA software package. It includes built-in alarm notification, historical logging, and data reporting capabilities. It also includes the ability to re-use code and graphics, leading to a more consistent and functional interface for operations staff.

OCD Automation is a Gold-certified integrator for Ignition, indicating a high level of training and experience with the software. OCD Automation has delivered multiple wastewater treatment plant Ignition SCADA upgrade projects similar to this one.

Key Features of the Ignition SCADA Software to be Deployed:

- System reliability is improved; in OCD Automation's experience, Ignition is vastly more stable and reliable than InTouch is.
- Historical collection of plant data, stored in a non-proprietary, standard database which allows external access if desired. Additionally, the Ignition historian does not have any license limitations on the quantity of datapoints collected, unlike other software packages.
    - Simple data extraction of trends to Microsoft Excel is available directly from ad-hoc trending.
- Integrated alarm notification means that Win911 is no longer necessary and can be removed. Because the alarm notification system is fully integrated into the SCADA software, there are no compatibility issues which decrease reliability.
- No license limitations on the number of graphical terminals used by operators throughout the plant, which allows additional graphical client terminals to be deployed. Additionally, remote access can be provided to operators and supervisory staff without sharing a SCADA graphics terminal.
- Yearly support / software maintenance fees are considerably less expensive than the current InTouch solution.
- Graphics will be developed with reference to ANSI/ISA standards 101.01 and 18.2 to provide high-quality, easy to understand interfaces that facilitate safe and accurate equipment operation.
- Ignition can run on either Windows or Linux, eliminating dependence on Microsoft operating system software and licensing and improving system uptime and reliability.

Key Improvements of the Camas SCADA Wastewater Graphics Application developed with Ignition:

- OCD Automation will develop the Ignition application with reference to ANSI/ISA standards 101.01 and 18.2 to provide high-quality, easy to understand interfaces that facilitate safe and accurate equipment operation.
    - Development demonstration meetings with project stakeholders at approximately 30, 60, and 90% completion of interface graphics, which allows stakeholder inclusion in graphics layout, design, and features. These demonstration meetings also allow stakeholders to test-drive the new system as it is developed so initial training efforts can be reduced.
    - Development of standardized motor and motorized valve graphics objects and control faceplates that integrate with the standardized PLC code blocks developed during the PLC-C and PLC-D replacement efforts. Some PLC code adjustments will be required to swap the previously developed PLC code blocks into the functional logic.
    - Development of analog transmitter graphic objects and control faceplates to allow transmitter scaling, diagnostics, and alarm setpoints to be available to the operators from the HMI.
    - Integration of historical data display throughout the app.

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Scope and Materials

- Redevelopment and improvement of the existing Wonderware InTouch graphics application to replicate current functionality of InTouch and Win911 applications in Ignition with the following improvements:
    - Update display and control graphics to align with ANSI/ISA 101.01.
    - Organize tags into folders and use user defined types where applicable.
    - Set up alarm paging via phone and text to be utilized in addition to the Mission RTU system
    - Set up historical logging and trend display graphics.
    - Develop standardized objects and popups for motors, valves, and transmitters deployed to PLC-C and PLC-D.
    - Development milestone meetings with stakeholders at 30, 60 and 90% completion.
    - Operator training will take place during the 60 and 90% completion milestone meeting that will demonstrate simulated functionality of the new system. Operators will be able to test-drive the new interface and features while also being able to provide feedback.
    - Deployment of new SCADA system in parallel with the existing system, allowing operators to try the new system while still having access to the existing system. Both systems will be left to run concurrently until the operators have fully acclimated and are using the new system exclusively.
- Provision of two Dell Virtual Machine Host Server Towers running Microsoft Hyper-V that will be loaded and configured with the following virtualized computers:
    - Application Servers: Redundant Ignition SCADA gateways, licensing, and software modules.
    - Historian Server: Postgres SQL Server for historical collection of SCADA process data.
    - One Windows Server 2025 Engineering Workstation for PLC programming
- Provision four Dell Micro form-factor computers to be configured as Ignition graphical interface client workstation computers, each containing the Ignition client software. Each Ignition terminal includes dual monitors.
- Provision of one Synology DS725+ Network Attached Storage (NAS) appliance and drives, configured to automatically take periodic backups of the Application and Historian servers.
- Provision of one APC STR2200XLA Interruptible Power Supply (UPS) to allow the control system servers to ride through short power outages.
- Provision of Ignition SCADA Platform, Unlimited Vision Clients, Historian Suite, SQL Bridge Module, Alarm Solution Suite, Redundancy, and the 1st year of Basic Care subscription support.
    - Annual Basic Care subscription support that enables software updates, patches, and technical support recommended to be continued by the City of Camas after the 1st year.
- Microsoft Server 2025 licensing required for the features described in this proposal.

Assumptions

- No hardware or software licenses will be provided other than those specified in the Scope section
- All work will take place during normal business hours (Monday through Friday, 8:00AM to 4:30PM).
- Services will be executed under the terms and conditions of our Agreement for Professional Services agreement to be signed by the City of Camas prior to the start of work.
- Remediation of any issues identified with PLC code during the project is not included in the scope of work.
- During the testing phase of approximately two work weeks, Camas will make an experienced operations user available to assist with the testing effort.
- Equipment operation during the testing effort may be required (e.g. stopping pumps, triggering alarms, etc.)

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- While many improvements to SCADA system functionality may be enabled by the new software, the scope of this project excludes any functional improvements not specifically identified in the Scope and Materials section.
- Project assumes that the project to replace PLC-A and PLC-DBCP will be completed prior to the start of this work.
- No trade craft labor is included. Spare parts not included.

Schedule

OCD Automation can be ready to start the design, procurement, and programming efforts upon receipt of purchase order referencing this proposal letter.

Invoicing

The anticipated hardware costs will be invoiced at project onset, with subsequent invoices based on project progress submitted monthly.

Cost of Services

The services to execute this work will be performed on a lump sum basis to a target budget of **$227,918**, Broken down as follows:

- Ignition Licensing identified under the scope and materials section: $32,742
- Computer hardware listed under the materials section: $53,428
- Labor to execute the setup, conversion, testing, and onsite implementation: $141,748

OCD Automation appreciates the opportunity to submit a proposal for this project. If there are any questions, please contact Jake Ositis at (503) 910-5364 or jake.ositis@odcautomation.com..

Regards,

Justin D. Colton
President, OCD Automation Inc.