

SCADA Installation

Proposal for
Town of Virgin Public Works

Prepared for

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Contact Information

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Project Description



SUMMARY

APCO is pleased to present this proposal for the design, fabrication, commissioning, PLC programming, and SCADA integration for three sites for the Town of Virgin. A complete breakdown of the labor and hardware associated with each site is outlined below.

VALVE VAULT

HARDWARE

- NEMA 4 Enclosure & Backplane
- Enclosure Lock
- Nano-10 PLC
- Analog Splitter
- Main Power Supply
- Uninterruptable Power Supply
- Surge Protection
- Unmanaged Network Switch
- DIN Rail, Terminal Blocks, Wire Ducting, Breakers and other misc. hardware required for a fully functional control panel
- Ubiquiti radio and associated hardware (if applicable)

LABOR

- Control panel Design
- Control Panel Fabrication
- Factory Acceptance Testing (FAT)
- PLC Programming
- SCADA Configuration
- Panel Installation
- Wire Terminations
- Testing & Commissioning
- Conduit Work to Install New Panel
- Radio Configuration (if applicable)

WEST TANK

HARDWARE

- Simpliscada Hub (if applicable)

LABOR

- Reconfiguration of existing PLC

- Reconfiguration of existing radio (if applicable))

MAIN TANK

HARDWARE

- Simpliscada Hub (if applicable)
- New Ubiquiti Radio (if applicable)

LABOR

- Reconfiguration of existing PLC
- Configuration of new radio (if applicable)

SOFTWARE

Three software options, along with their respective pricing, are outlined below.

Simpliscada is the recommended solution based on its streamlined architecture, reduced infrastructure requirements (no physical servers), and ease of use for the end user.

OPTION 1: SIMPLISCADA

- Complete Cloud SCADA Solution
- Cellular Connections
- SimpliLink Hubs

OPTION 2: IGNITION

- Ignition Perspective Module Limited: 1 Perspective Client
- Ignition Platform
- OPC UA Server Module
- Industrial Historian
- Alarm Notification Module
 - SMS Notification Module
 - Voice Notification Module
- BasicCare Support (16% of licensing cost annually)

OPTION 3: VTSCADA

- VTScadaLIGHT
 - Supports up to 50 points
- Built-in trending and historical data logging
- Integrated alarm management with notifications and event tracking
- Web and mobile configuration

SERVERS

If Ignition or VTScada are implemented, a single server (non-redundant) will be provided to host the SCADA system. Ongoing support and maintenance will be coordinated with the City. Pricing has been outlined below for:

- One (1) server
- One (1) operator workstation including:
 - Monitor
 - Keyboard
 - Mouse
 - Unmanaged Network Switch

SRC GATEWAY

If Ignition or VTScada are implemented, appropriate cybersecurity measures will be required to ensure secure remote access and system integrity. APCO offers its Secure Remote Connect (SRC) solution, which provides a high-security platform featuring dual-layer protection, encrypted communications, automated session timeouts with physical disconnection, and real-time monitoring for safe and reliable remote connectivity.

Assumptions/Clarifications



- No local OITs included in this scope of work.
- Solar charger and batteries included below as an optional line item.
- Work associated with the new tank site (constructed in Summer 2026) not included in this quote. A separate quote will be prepared for SCADA integration at that site.
- It is assumed that there is space for mounting of the panel at the Valve Vault.
- It is assumed that there is 120V power available at the Valve Vault.
- Solar panel installation not included in this scope of work.
- Any recurring monthly costs associated with Simpliscada will be the responsibility of the Town.
- Radios will be used for communication between each site if Ignition or VTScada is the preferred SCADA software. Implementing SimpliScada will remove the need for radios.
- This proposal includes SCADA licensing for the remainder of 2026. Ongoing annual licensing fees will be billed separately each January.

Budget



This project will be carried out on a Fixed Fee basis and this proposal has been prepared in accordance with this billing structure. The project will be billed on a percent complete basis until the fulfillment of the listed price. Equipment procurement is a part of the project and will be billed upon receipt by APCO.

Sales tax will not be charged if a Utah State Sales Tax exemption form is provided or already on file.

Town of Virgin SCADA Integration (Using SimpliScada)

Panel Hardware (Valve Vault)	\$ 8,107
Labor & Expenses (Valve Vault, Main Tank, West Tank)	\$ 40,234
SimpliScada Licensing & Hubs	\$ 9,313
<i>SimpliScada will have an annual recurring cost of \$3,131.52</i>	
Sales Tax	\$ 1,262.95
Project Total	\$ 58,916.95

Town of Virgin SCADA Integration (Using Ignition)

Panel Hardware (Valve Vault), Radio Hardware, SRC	\$ 19,629
Labor & Expenses (Valve Vault, Main Tank, West Tank)	\$ 46,596
Ignition Licensing	\$ 17,727
<i>Ignition will have annual recurring support costs (16% of license)</i>	
Server Hardware	\$ 3,220
Sales Tax	\$ 2,941.76
Project Total	\$ 90,113.76

Town of Virgin SCADA Integration (Using VTScada)

Hardware (Valve Vault), Radio Hardware, SRC	\$ 19,629
Labor & Expenses (Valve Vault, Main Tank, West Tank)	\$ 48,909
VTScada Licensing	\$ 0
Server Hardware	\$ 3,220
Sales Tax	\$ 1,656.55
Project Total	\$ 73,414.55

OPTIONS/ADD ONS

Solar Charger & Battery	\$ 2,107
<i>Cost shown is the price for one (1) site</i>	

Conclusion

We look forward to working with you on this and future projects. Please contact me if you have any questions.

Sincerely,



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