

STEWART FALLS SCADA UPGRADES: CONTROL PANEL & PROGRAMMING

Proposal for
North Fork Special Services District

Prepared for

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Aqua Engineering

REVISED

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Contact Information

APCO Inc.

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Project Description



SUMMARY

APCO is pleased to provide this proposal for the design, fabrication, and PLC programming of a control panel for the new water treatment facility located at Stewart Falls. The labor, hardware, and budget for this project are outlined below.

LABOR

- Control panel design & drawings
- Control panel fabrication
- PLC programming
- HMI configuration
- Commissioning

HARDWARE

- Allen-Bradley CompactLogix L310 PLC and IO Cards
- Communication devices
- Enclosure and backplane (stainless steel NEMA 4x)
- 10" C-more touch screen
- Power Supply hardware
- Miscellaneous panel hardware (terminal blocks, wiring, DIN rail, wire ducting, etc.)
- Unmanaged Ethernet switch

Assumptions/Clarifications



- It is assumed that Ethernet/IP will be available for communication to the PLC.
- It is assumed that the logic incorporated in the vendor system is accessible and that APCO can pull data from this system as necessary for the programming of the PLC and configuration of the HMI.
- It is assumed that conduit will be run by others.
- It is assumed that electrical wiring and terminations will be performed by others.
- It is assumed that for booster pump control (P-41110, P-41210, P-41310), the APCO provided panel will communicate with VCP-41111, rather than the pumps directly. Other instruments not controlled via the VCP system will be wired to the APCO provided panel, and it is assumed that this electrical wiring will be performed by others.
- Panel installation will be performed by others.

- The best form of communication for this site is currently unknown. APCO personnel will perform an investigation into the available communication networks and determine whether radio or cellular communications will be best suited for this site.

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 fulfilment 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.

SCADA Upgrades Control Panel & Programming

Hardware	\$ 32,792
Labor	\$ 34,782
Project Total	\$ 67,574

Conclusion

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

Sincerely,

Joshua Clarke

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