



PROPOSAL NUMBER	SE1174
CLIENT	City of Pflugerville
PROJECT	PLC Replacement Project
DATE	3/27/2025
REVISION	1.0



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SE1174	3/27/2025	1.0

100 E. Main Street Suite 100, Pflugerville, TX 78660

Attn: Kelly Holecek

SUBJECT: PLC Replacement

PROPOSAL: SE1174

Dear Kelly Holecek,

Thank you for allowing SOAP Engineering to submit a proposal for the PLC Replacement. We are pleased to provide the enclosed proposal based on the requirements.

SOAP Engineering has earned a reputation as a global leader in the design/build and systems integration of SCADA and control systems over the past 30 years. Our depth of experience and rigorous implementation strategies allows us to provide our clients with innovative solutions to complex industry challenges.

We welcome the chance to further explain our approach whenever you are ready to move forward. It would be our pleasure to work with you, and we look forward to your positive response.

Please don't hesitate to contact me if you require any clarifications or have any questions about the proposal. Thank you for the opportunity to be of service.

Sincerely,

Viqar Anwar
President
viq.anwar@soapeng.com
2816352387
SOAP Engineering, LLC



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- **Introduction:**

SOAP has completed over 350 projects supplying our clients with SCADA software, hardware and integration spanning a multitude of applications ranging from SCADA modernization to installing complex industrial plant and building management and control systems. We consider this track record places SOAP in the forefront of supply of control and automation solution experience.

Over 30 years of experience in various industries including a strong focus in Water & Wastewater.

Over 90 Engineers, Programmers and Field Technicians with extensive experience

Rigorous Project Management standards and Project Execution methodologies followed including a dedicated, independent team for Testing, QA/QC

Committed to strict standards in QHSE, Cybersecurity, Industry Compliance and Government Regulations

Expertise and certifications in many platforms including

VT SCADA

Rockwell (Control/Compact/MicroLogix, FactoryTalk, SLC-500)

Win-911, Twilio

In-house personnel to deliver full turn-key services including

Control Systems Engineering & Automation – Project Management, Engineering Design, Measurement,

PLC/RTU/MTU/HMI programming, Network/Radio/Coms Implementation, Panel Fabrication (UL-508a Certified), Drafting & Drawing Packages, Field I&E Installation, Calibration & Commissioning, SOP and System Standardization & Documentation, Training, Service and Support

Enterprise SCADA - Turnkey Solutions, Upgrades, Enhancements & Support, SCADA-as-a-Service Solutions, Infrastructure Design, Full Cloud Architecture Build and Hosting, Integration with Downstream Systems and Business Applications, High Performance HMI Standardization, Business Intelligence – KPIs, Smart Dashboards, Reporting, Historian and Database Configuration & Management, Polling Optimization & Alarm Rationalization, 24/7 Control Room Monitoring and Support

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1.1 Certifications



Certificate of Qualification

This certificate has been awarded to:
Cole Sharrah

as a Qualified Manufacturer
Technical Representative in
**UL 508A MTR Qualification Examination
v3**

Robert V. Slone
Robert V. Slone
Senior vice president
Chief scientist

Awarded on: **08/23/2024**
Valid for a three-year period

068d5186-57d2-4d9a-b7aa-14a20b73df



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2. References of Previous Projects:

2.1 Project #1: City of Abilene, TX

Place of Performance: Abilene Northeast Water Treatment Plant, TX

Beginning Date of Contract: March 2022

Completion Date of Contract: October 2023

Scope of work	
<p>This project involved upgrade and improvement the existing SCADA system at the Abilene Northeast Water Treatment Plant which included replacement of 6 PLCs covering, all clarifiers, filter trains, caustic and polymer systems as supply of new Plant Master and Air Scour Valve Control Panels. The original systems were based on obsolete based on Bristol Babcock, SCADAPack and Allen Bradley Micrologix 1500. The old systems were demolished and replaced with new PLCs and Control Panels. Various Instruments were supplied and installed including Chlorine analyzers, Turbidity meters, Flow meters, Scales, Level Indicating Transmitters. The project involved development of new programs for all of the replaced PLCs and integration with the Wonderware SCADA system</p>	
Activities	Platforms
<ul style="list-style-type: none"> ✓ Project Management ✓ PLC/DCS/HMI Programming ✓ Panel Fabrication ✓ SOP and System Documentation ✓ Drafting ✓ Field Services – Installation, Calibration, and Commissioning ✓ Training 	<ul style="list-style-type: none"> - PLC <ul style="list-style-type: none"> ✓ A-B CompactLogix ✓ A-B MicroLogix - HMI/SCADA <ul style="list-style-type: none"> ✓ Panel VIEW



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2.2 City of Pecos, TX

Place of Performance: Pecos, TX

Beginning Date of Contract: January 2021

Completion Date of Contract: September 2024

Scope of work	
<p>This project involved supply and installation of new and upgraded controls panels for 41 sites, including water wells, elevated storage tanks, booster pump stations, and the main city high service pump station. A new radio communication network was supplied and installed based on 5Ghz and 2Ghz radios including 26 Radio towers ranging from 40 ft to 100 ft in height Instrumentation upgrades were also performed to integrate into the new control system. Various locations had existing SCADAPack based control systems which were demolished and replaced with new Panels. Programs and logic were developed for each location. SCADA system provided was based on VTSCADA providing status and remote control for each site.</p>	
Activities	Platforms
<ul style="list-style-type: none">✓ Project Management✓ PLC/DCS/HMI Programming✓ Panel Fabrication✓ SOP and System Documentation✓ Drafting✓ Field Services - Installation, Calibration, and Commissioning✓ Training	<p>PLC</p> <p>✓ Siemens, S7</p> <p>HMI/SCADA</p> <p>✓ VTSCADA</p> <p>✓ Local Panel PC</p>

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2.3 Noble Energy

Place of Performance: Houston, TX

Beginning Date of Contract: August 2020

Completion Date of Contract: Aug 2024

Scope of work	
<p>Primary & Redundant Hardware Replacement & OS Upgrade:</p> <ul style="list-style-type: none"> • Provided new BOP Engineering workstation (CCC EWS) running Windows 10 Operating System to replace current CCC EWS running windows XP. • Provided additional [redundant/hot standby] BOP Engineering workstation running Windows 10 • Provided new license GE CIMPLICITY 10.0 software compatible with Windows 10 OS. • Provided new license GE Proficy Machine Edition 9.5 software compatible with Windows 10 OS. • Performed configuration, integration, and update of the current HMI software built in Cimplicity 8.0 to the new version of Cimplicity 10.0 on the redundant/hot standby CCC EWS machine. • Setup communication network between redundant/hot standby CCC EWS server and DCP viewer. • Setup and configured GE Proficy Machine edition 9.5 to communicate to all PLC's (CompactLogix and GE 90-70) on the BOP control system on the redundant/hot standby CCC EWS machine. • Setup and configured 3rd party miscellaneous software on redundant/hot standby CCC EWS server as part of Windows 10 configuration. • Configuration of master EWS and redundant/hot standby EWS – synchronization 	
Activities	Platforms
<ul style="list-style-type: none"> ✓ Installation of equipment & Hardware upgrades. ✓ Site surveys ✓ Indepth Site analysis & leveraged data collection. ✓ Compliance & standards adherence ✓ Testing & Logistics ✓ Material procurement & delivery 	<p>PLC</p> <ul style="list-style-type: none"> ✓ A-B Control Logix, ✓ A-B CompactLogix, ✓ A-B SLC500, ✓ A-B PLC5, ✓ A-B MicoLogix, Modicon 3xx, ✓ Siemens S7 ✓ Siemens S5 <p>HMI/SCADA</p> <ul style="list-style-type: none"> ✓ Ignition

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2.4 ATF Fire Research Lab- PLC Upgrade and Replacement

Place of Performance: Maryland

Beginning Date of Contract: July 2024

Completion Date of Contract: Aug 2024

Scope of work	
<p>The project included hardware installations of components, including the PLC, workstation, modules, and connections, wiring and connections functionality, successful PLC migration to new CompactLogix 5380, logic program testing and on-site client support. SOAP engineering effectively executed site surveys which included collaborative coordination and scheduling ensuring on-going support and direct communication with the Contracting Officer Representative (COR) or their designee to arrange a mutually convenient time for the site visit. A comprehensive site assessment was conducted along with thorough examination of the site. We support our client enhanced data collection and verification which helps us with accurate documentation and reporting.</p>	
Activities	Platforms
<ul style="list-style-type: none"> ✓ Installation of equipment & Hardware upgrades. ✓ Site surveys ✓ Indepth Site analysis & leveraged data collection. ✓ Compliance & standards adherence ✓ Testing & Logistics ✓ Material procurement & delivery 	<p>PLC</p> <ul style="list-style-type: none"> ✓ A-B Control Logix, ✓ A-B CompactLogix, ✓ A-B SLC500, ✓ A-B PLC5, ✓ A-B MicoLogix, Modicon 3xx, ✓ Siemens S7 ✓ Siemens S5 <p>HMI/SCADA</p> <ul style="list-style-type: none"> ✓ Ignition

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2.5 Andrews - SCADA Improvements-Town of Andrews

Place of Performance: South Carolina

Beginning Date of Contract: Sep 2024

Completion Date of Contract: In Progress

Scope of work	
The objective of this project is to improve the monitoring and control of three tanks and three wells by installing RTU panels, implementing pressure level gauges in the tanks, replacing existing flowmeters, and integrating these systems with a cloud-based, web-accessible SCADA system.	
Activities	Platforms
<ul style="list-style-type: none"> • Functional PLC System: A new PLC installed, operational, and controlling the process as intended. • Extracted Program (if applicable): A copy of the program from the old PLC, if successfully extracted. • Wiring Diagram: An updated wiring diagram reflecting the new PLC connections. 	<p>PLC</p> <ul style="list-style-type: none"> ✓ A-B Control Logix, ✓ A-B CompactLogix, ✓ A-B SLC500, ✓ A-B PLC5, ✓ A-B MicoLogix, ✓ Modicon 3xx, ✓ Siemens S7 ✓ Siemens S5



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3. Scope of Supply

SOAP Engineering, LLC will provide the following equipment and services for the Programmable Logic Controller Upgrade project:

Goods

- One (1) license for Rockwell Studio 5000 software.
- One (1) Rockwell Automation CompactLogix 5380 programmable logic controller.
- One (1) workstation computer.
- All necessary hardware modules and connection cables required for the upgraded PLC system.

Services

- **Hardware Installation:** SOAP Engineering will install all hardware components, including the PLC, workstation, modules, and connections.
- **Wiring and Connection Verification:** All wiring and connections will be thoroughly checked to ensure proper functionality.
- **Logic Migration:** The logic program from the existing PLC will be migrated to the new CompactLogix 5380 and updated to ensure it works seamlessly.
- **Logic Testing:** The migrated logic program will be rigorously tested to ensure it functions as intended.
- **Client On-site Support:** SOAP Engineering will provide two (2) days of on-site support to assist the client in verifying the upgraded system's functionality and answer any questions related to its operation.

Deliverables:

- Installed and operational PLC system
- Migrated and tested logic program
- Rockwell Studio 5000 license

Site Survey:

To effectively execute the site survey, our team will employ the following methodology:

1. **Coordination and Scheduling:** SOAP will initiate communication with the Contracting Officer Representative (COR) or their designee to arrange a mutually convenient time for the site visit.
2. **Comprehensive Site Assessment:** Conduct a thorough examination of the site.
3. **Data Collection and Verification.**
4. **Documentation and Reporting:** Prepare detailed site survey reports and prepare the design package.



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Design Package

Our approach to developing the design package is centered around the following key steps:

- In-depth Site Analysis: Leverage the data collected during the site survey to conduct a thorough analysis of the site's specific requirements, constraints, and improvement opportunities.
- Design Conceptualization: Based on the site analysis and project objectives, our design team will develop innovative and practical design concepts that align with the client's vision.
- Compliance and Standards: Adhere to all applicable codes, standards, and regulations to guarantee the design's integrity and safety.
- Submission and Review: Submit the completed design package to ATF for review and approval.

By following this structured approach, we will deliver a comprehensive site survey and design package that forms a solid foundation for the successful execution of the project.

Testing

SOAP will conduct comprehensive testing of all hardware and software components at each site. This includes:

- Individual unit testing of PLCs, I/O modules, and other hardware components.
- Functional testing of the entire system to verify correct operation and data flow between various components.
- FAT (Factory Acceptance Test)
All testing and verification procedures will adhere to SOAP's established Quality Assurance and Quality Control (QA/QC) standards, ensuring a rigorous and reliable testing process.

Logistics

This section outlines our plan for the efficient and secure transportation of materials and equipment to your project site. We will ensure timely delivery while adhering to all safety regulations and handling requirements for sensitive equipment.

Site preparation and coordination

We will handle all aspects of preparing the project site to receive and accommodate the equipment in our scope. This includes coordination with relevant stakeholders, obtaining necessary permits, and ensuring the site is ready for installation activities.

Material Procurement and Delivery

SOAP secures reliable vendors for the procurement of all hardware components as specified in the SOW, considering factors like quality, lead times, and cost-effectiveness. The company will ensure a robust logistics plan for the timely and secure transportation of procured equipment to each project site, adhering to safety regulations and handling requirements for sensitive equipment. And will Implement a comprehensive inventory management system to track equipment deliveries, ensure on-site availability of necessary components, and minimize the risk of delays or discrepancies.

STATE OF TEXAS §
COUNTY OF TRAVIS §
CITY OF PFLUGERVILLE §

The Condition of the above obligation is such that whereas the Principal has submitted to OWNER a certain BID, to enter into a contract in writing for the PLC Replacement (the "Project"), which is attached hereto and incorporated herein for all purposes.

- (a) If said BID shall be rejected; or,
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the form of Contract attached hereto and incorporated herein for all purposes (properly completed in accordance with the Contract Documents) and shall furnish a performance bond ensuring faithful performance of said Contract, and a payment bond ensuring the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects enter into the Contract under the terms of said BID proposal,

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within

which the OWNER may accept such BID and said Surety does hereby waive notice of any such extension.

The obligations of the parties under this BOND shall be performable in Travis County, Texas and shall be construed under the laws of the State of Texas. If legal action is necessary in connection with this BOND, exclusive venue shall be in Travis County, Texas.

Surety companies executing this BOND must appear on the United States Treasury Department's most current list (Circular 570, as amended) and otherwise be authorized to transact business in the State of Texas.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Signed and Agreed to this 20th day of March, 2025.

The Gray Casualty & Surety Company
SURETY (seal)

By: 
(Signature)

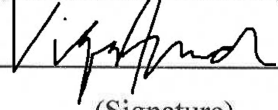
Mireli Stanford
(Print Name)

Attorney-In-Fact
(Print Title)

[ATTACH POWER OF ATTORNEY]

ATTEST: 
Megan Liescheski, Surety Witness

SOAP Engineering, LLC
PRINCIPAL/CONTRACTOR

By: 
(Signature)

Viqar Anwar
(Print Name)

President
(Print Title)

[Additional signatures, if any,
attached]

ATTEST: _____

**THE GRAY INSURANCE COMPANY
THE GRAY CASUALTY & SURETY COMPANY**

GENERAL POWER OF ATTORNEY

Bond Number:

Principal:

Project:

KNOW ALL BY THESE PRESENTS, THAT The Gray Insurance Company and The Gray Casualty & Surety Company, corporations duly organized and existing under the laws of Louisiana, and having their principal offices in Metairie, Louisiana, do hereby make, constitute, and appoint: **Megan Liescheski, Jacob Strader, Justin McQuain, Mireli Stanford, and Brian P. Herrera of Spring, Texas jointly and severally** on behalf of each of the Companies named above its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its deed, bonds, or other writings obligatory in the nature of a bond, as surety, contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed the amount of \$25,000,000.00.

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both The Gray Insurance Company and The Gray Casualty & Surety Company at meetings duly called and held on the 26th day of June, 2003.

"RESOLVED, that the President, Executive Vice President, any Vice President, or the Secretary be and each or any of them hereby is authorized to execute a power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings, and all contracts of surety, and that each or any of them is hereby authorized to attest to the execution of such Power of Attorney, and to attach the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be binding upon the Company now and in the future when so affixed with regard to any bond, undertaking or contract of surety to which it is attached.

IN WITNESS WHEREOF, The Gray Insurance Company and The Gray Casualty & Surety Company have caused their official seals to be hereinto affixed, and these presents to be signed by their authorized officers this 4th day of November, 2022.



By:

Michael T. Gray
President
The Gray Insurance Company

Cullen S. Piske
President
The Gray Casualty & Surety Company



State of Louisiana

ss:

Parish of Jefferson

On this 4th day of November, 2022, before me, a Notary Public, personally appeared Michael T. Gray, President of The Gray Insurance Company, and Cullen S. Piske, President of The Gray Casualty & Surety Company, personally known to me, being duly sworn, acknowledged that they signed the above Power of Attorney and affixed the seals of the companies as officers of, and acknowledged said instrument to be the voluntary act and deed, of their companies.



Leigh Anne Henican
Notary Public
Notary ID No. 92653
Orleans Parish, Louisiana

Leigh Anne Henican
Notary Public, Parish of Orleans State of Louisiana
My Commission is for Life

I, Mark S. Manguno, Secretary of The Gray Insurance Company, do hereby certify that the above and forgoing is a true and correct copy of a Power of Attorney given by the companies, which is still in full force and effect. IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Company this 20th day of March, 2025.

I, Leigh Anne Henican, Secretary of The Gray Casualty & Surety Company, do hereby certify that the above and forgoing is a true and correct copy of a Power of Attorney given by the companies, which is still in full force and effect. IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Company this 20th day of March, 2025.





The Gray Insurance Company
The Gray Casualty & Surety Company

Statutory Complaint Notice

To obtain information or to make a complaint:

You may contact the Surety via telephone for information or to make a complaint at: 1-504-754-6711.

You may also write to the Surety at:

Gray Surety
P.O. Box 6202
Metairie, LA 70009-6202

You may also contact the Texas Department of Insurance to obtain information on companies, coverage, rights or complaints at 1-800-252-3439. You may write to the Texas Department of Insurance at:

P.O. Box 149104
Austin, TX 78714-9104
Fax: 512-475-1771

PREMIUM OR CLAIM DISPUTES: Should you have a dispute concerning your premium or about a claim, you should contact the Surety first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY: This notice is for information only and does not become part of condition of the attached document. This notice is written under a complete reservation of rights. Nothing herein shall be deemed to be an estoppel, waiver or modification of any of Gray's rights or defenses, and Gray hereby reserves all of its rights and defenses under any general agreement of indemnity, contracts, agreements, bonds, or applicable law.

Price Sheet
RFB 2025-009 PLC Replacement
City of Pflugerville

Price for Boulder Ridge LS:	\$
Price for Colorado Sands LS:	\$ 22,711.32
Price for Falcon Point EST:	\$
Price for Falcon Point LS:	\$ 3,782.18
Price for Kelly Lane LS:	\$ 3,782.18
Price for Mud 5 Altitude Valve:	\$
Price for Pfennig Pump Station:	\$ 31,693.59
Price for Renewable Park LS:	\$ 23,368.88
Price for Reuse Pump Station:	\$ 22,369.94
Price for South Standpipe:	\$ 21,774.83
Price for Verona LS:	\$
Price for Weiss Lane LS:	\$
Price for Well Site 5:	\$ 22,105.69
Price for Well Site 6:	\$ 23,196.41
Price for Well Site 7:	\$ 21,774.83
Price for Little Blackhawk Lift Station:	\$ 3,782.18
Price for Dunes Lift Station:	\$ 3,782.18
Price for Vine Creek Lift Station:	\$ 22,264.24

Total Cost:\$ 226,388.48