

Production Control System Upgrade - SCADA

Pre-Proposal Meeting

July 10, 2018

Robert Pina

Director – Enterprise Solutions, SAWS

Janie M. Powell

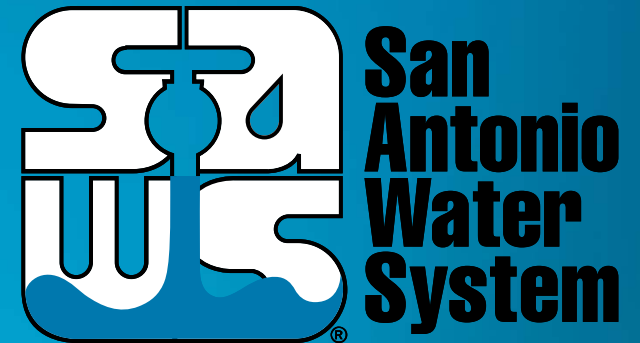
Contract Administrator, SAWS

Susan Rodriguez

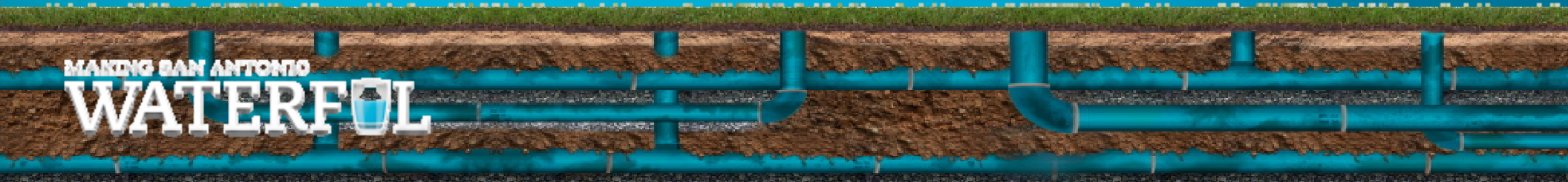
SMWVB Program Specialist, SAWS

Nabil Antary

Project Manager, Antary Consulting



MAKING SAN ANTONIO
WATERFUL



Oral Statements

Oral statements or discussion during the pre-proposal meeting will not be binding, nor will it change or affect the terms or conditions within the Plans and Specifications for this Project. Changes, if any, will be addressed only via an Addendum.

Meeting Agenda

- Project Overview
- Pre-Proposal Meeting
- SMWB
- Contract Requirements
- Required Experience
- RFCSP Evaluation Process
- Evaluation Criteria
- Subcontractor Changes
- Submittal Preparation
- Additional Reminders
- Communication
- Key Dates
- Technical Project Overview
- Project Phased Approach
- Questions

Project Overview

Production Control System (PCS) Upgrade Project

- Implementation of a single, consolidated platform to provide monitoring and control of the entire water production system, recycle water system and wastewater collections stations
- Utilization of the Rockwell PlantPAx hardware and software platform

Pre-Proposal Meeting

- Non-mandatory pre-proposal meeting
- Attendees should sign-in
- Sign-in sheet will be posted on SAWWS website
- Key project information:
 - 488 calendar days
 - Construction services being procured through RFCSP

SMWB Goal

Industry	SMWVB Goal
Construction	20%

Accepted SMWVB Certification Agency

- **South Central Texas Regional Certification Agency**
(Includes the Texas Historically Underutilized Business “HUB” Program)

Minimum Qualifications for SMWVB recognition:

- SBE-Certified (even MBEs and WBEs)
- **Local office or local equipment yard**

Accepted SMWVB Certifications

- Minority Business Enterprise (MBE) (Includes AABE; ABE; HABE and NABE)
- Small Business Enterprise (SBE)
- Woman-owned Business Enterprise (WBE)
- Veteran-owned Business Enterprise (Tracked, but not eligible for points)

Good Faith Effort Plan (GFEP) FAQs

- **Q: Is the 20% SMWB goal mandatory?**

A: No, but we ask prime consultants to do their best with good faith outreach efforts. If the goal is not met, proof of outreach efforts is required with the submittal.

- **Q: What if I am having trouble finding SMWB subconsultants?**

A: Please email the SMWVB Program Specialist with the scopes of work you are seeking. You will receive lists of local SMWVB-certified firms to contact.

- **Q: What if my business is SMWB-certified? Do I need to find SMWB subs?**

A: If your firm is SMWVB-certified, you will most likely meet the goal. However, the GFEP is a required document, and a good faith outreach effort is still necessary.

- **Q: What if I have questions about the GFEP?**

A: Please contact the SMWVB Program Specialist at 210-233-2950, or at Susan.Rodriguez@saws.org. GFEP questions can be asked at any time before the submittal is due.

Contract Requirements

- Weekly submission of Certified Payroll using LCP Tracker software
- Maintain insurance coverage during the construction of this Project
- Weekly reporting of subcontractor payments using the Subcontractor Payment Utilization Reporting (SPUR) system
- Submittals and invoicing will be handled through CPMS

Required Experience

- Rockwell Automation PlantPAx software solutions – two (2) projects
 - Rockwell “Recognized System Integrator” level designation
- Project experience of similar size and complexity – five (5) projects
 - At least two (2) projects in the Water/Wastewater industry
- Project Manager SCADA Implementation experience – ten (10) years
 - At least three (3) projects of similar size and complexity
- Project Engineer/Configuration Lead SCADA experience – five (5) years
 - At least three (3) projects of similar size and complexity
 - Completion of Rockwell PlantPAx components and overall PlantPAx integration
- Historian/Reporting Specialist SCADA experience – five (5) years
 - At least three (3) projects utilizing the Rockwell Historian and Rockwell VantagePoint solutions
 - Completion of Rockwell Historian and VantagePoint software within past five (5) years

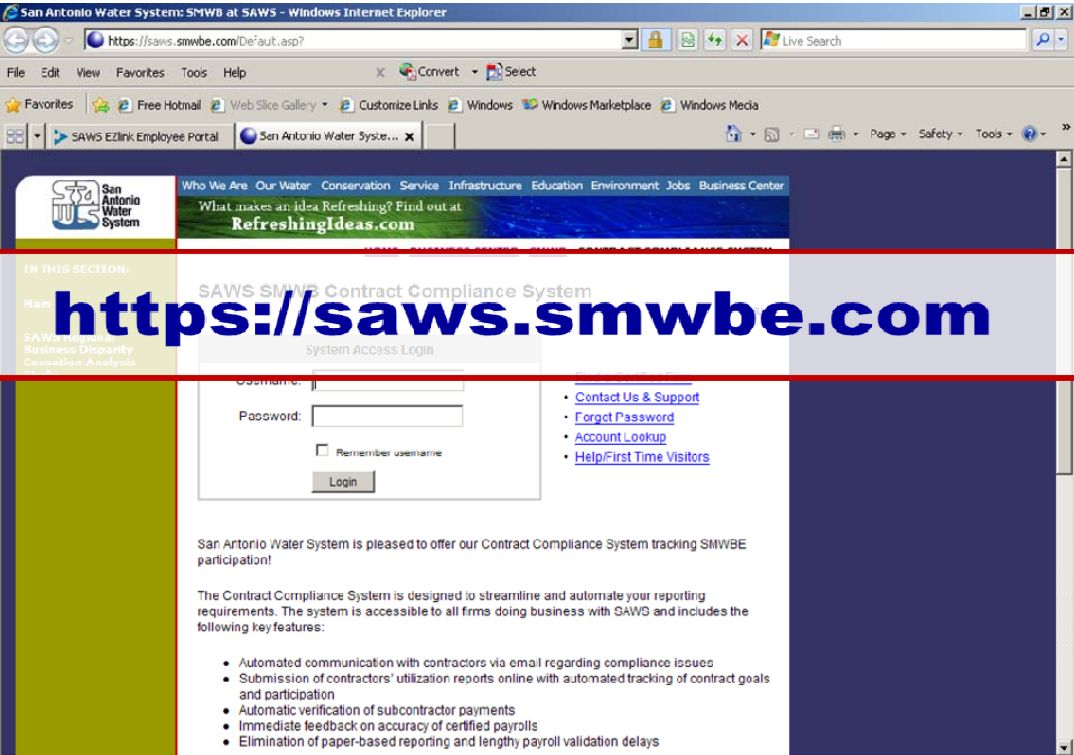
RFCSP Evaluation Process

- Selection Committee will score the proposals based on the evaluation criteria
- Price will be calculated (lowest price receives the highest points) and added to final scores
- SMWVB will be added to final scores
- Negotiations, if any
- Board award

Evaluation Criteria

CRITERIA	MAX POINTS
Team Qualifications and Experience	20
Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget	25
Project Approach including Delivery Schedule	20
Price	25
Small, Minority, Woman and Veteran-Owned Business Participation (SMWVB)	10
TOTAL	100

Post Award: Subcontractor Payment & Utilization Reporting (S.P.U.R.) System & Subcontractor Changes



San Antonio Water System: SMWB at SAWS - Windows Internet Explorer

https://saws.smwbe.com/Default.asp?

File Edit View Favorites Tools Help X Convert Select

Favorites Free Hotmail Web Site Gallery Customize Links Windows Windows Marketplace Windows Media

SAWS EZLink Employee Portal San Antonio Water System

Who We Are Our Water Conservation Service Infrastructure Education Environment Jobs Business Center

What makes an idea Refreshing? Find out at RefreshingIdeas.com

IN THIS SECTION:

SAWS SMWB Contract Compliance System

System Access Login

Username:

Password:

Remember username

Login

- [Contact Us & Support](#)
- [Forgot Password](#)
- [Account Lookup](#)
- [Help/First Time Visitors](#)

San Antonio Water System is pleased to offer our Contract Compliance System tracking SMWBE participation!

The Contract Compliance System is designed to streamline and automate your reporting requirements. The system is accessible to all firms doing business with SAWS and includes the following key features:


- Automated communication with contractors via email regarding compliance issues
- Submission of contractors' utilization reports online with automated tracking of contract goals and participation
- Automatic verification of subcontractor payments
- Immediate feedback on accuracy of certified payrolls
- Elimination of paper-based reporting and lengthy payroll validation delays

Subcontractor Change Request

Any changes in subcontractors or suppliers requires prior approval from SAWS:

http://www.saws.org/business_center/contractsol/forms.cfm or

http://www.saws.org/business_center/contractsol/forms/SMWBChangeForm.pdf



Name of Contractor: _____
 Project Name & Number: _____
 Submits the following approval request of the following addition(s) and/or deletion(s) on the Affirmed List of Subcontractors, as originally submitted as part of the BID/PROPOSAL/CONTRACT.

CHANGES

ADD	DELETE	NAME OF SUBCONTRACTOR	SBE, MBE, VBE, WBE	DESCRIPTION OF WORK TO BE PERFORMED	PERCENT & DOLLAR AMOUNT OF CONTRACT
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		

JUSTIFICATION

AFFIRMATION

THE ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF, I FURTHER UNDERSTAND AND AGREE THAT THIS DOCUMENT SHALL BE ATTACHED THERETO AND BECOME A BINDING PART OF THE CONTRACT.

Name & Title of Authorized Requestor: _____
 Signature of Authorized Requestor: _____ Date: _____

SMWVS PROGRAM MANAGER: _____	DATE APPROVED: _____
CONTRACTING DIRECTOR: _____	DATE APPROVED: _____

Office Use Only: _____ S.P.U.R. System _____ CPMS _____ Project Hand File _____

Submittal Packet Preparation

- Utilize the Proposal Response Checklist
 - Original proposal (1) with required information differs from copies (7)
- Thoroughly review scope and ensure project examples and key personnel resumes clearly show similar experience
- Review Instructions to Respondents
- Thoroughly review evaluation criteria and respond with all required information to maximize points
- Avoid “boilerplate” responses
- Verify contact information for all project references, if SAWWS is not able to contact reference, points may be deducted or proposal deemed non-responsive

Submittal Packet Preparation *(cont.)*

- Ensure required documents are submitted and signed, (i.e. Respondent Questionnaire, CIQ, etc.)
- Entire proposal should create a clear picture of Project Team experience and capabilities (Org chart, projects, and resumes)
- Ensure Price Proposal is submitted
 - Double check extensions for proposal
 - Acknowledge Addendum(s) on Proposal Signature Page
- Responses are limited to 55 pages
 - Required forms and dividers tabs do not count towards limit

Additional Reminders

- Ask questions clarification questions re: project, RFCSP and evaluation criteria early to ensure they are captured in an Addendum
- Register through the SAWS website to ensure access to the most current information (addendums, supplemental information, etc.)

Communication Reminders

- There should not be any communication with the following:
 - ✓ Design Engineer
 - ✓ SAWS Project Manager or Project Engineer
 - ✓ Any other SAWS staff
 - ✓ City Council member or staff
 - ✓ SAWS Board of Trustees
- This includes phone calls, emails, letters, or any direct or indirect discussion of the RFCSP
- Release of RFCSP - Board Award
- If under contract with SAWS for another project, indicate this to SAWS staff that your company intends to submit for this RFCSP and do not discuss

Key Dates

- July 12, 2018 by 2:00 PM
- July 18, 2018 by 5:00 PM
- July 25, 2018 by 10:00 AM
- July/August 2018
- August 2018
- August/September 2018
- October 2, 2018
- October 2018

Questions Due

Addendum Posted to SAWS Website

Proposals Due

Proposals Evaluated

Interviews (if necessary)

Negotiations (if necessary)

SAWS Board Approval and Award

NTP Issued

Submission Due Date

- Proposals due no later than **10:00 AM on Wednesday, July 25, 2018**
- Follow specific delivery instructions:
 - Deliver to 2800 U.S. Highway 281 North, Suite 171, Customer Service Building, Counter Services
 - Make arrangements if mailing a response to this RFCSP
 - Late responses will not be accepted and will be returned unopened

SMWVB Questions

Questions related to SMWVB may be directed to SAWS' SMWVB Program Specialist until the RFCSP deadline. Her contact information is as follows:

Susan Rodriguez

Contract Administration Department

San Antonio Water System

Email Address: Susan.Rodriguez@saws.org

Telephone No.: 210-233-2950

Questions

- Should be submitted no later than July 12, 2018 at 2:00 PM CT
- Must be submitted in writing:

Janie M. Powell

Contract Administrator

Contract Administration Department

San Antonio Water System

Janie.Powell@saws.org

Technical Project Overview

Production Control System (PCS) Upgrade Project

- General construction and system integration services for the upgrade of the San Antonio Water System (SAWS) Production Control System (PCS) and the SAWS Aquifer Storage and Recovery Water Treatment Plant (ASR WTP) SCADA System to a Rockwell PlantPax Platform
- The upgraded SCADA systems shall consist of a new high performance Human-Machine Interface and associated historian and data management interfaces.
- The new PCS Rockwell Platform will be fully redundant on SAWS provided virtual servers, located at the SAWS Primary and Backup Data Centers.

Technical Project Overview

Production Control System (PCS) Upgrade Project

- The SCADA systems shall interface to the existing Programmable Logic Controller (PLC) and Remote Terminal Unit (RTU) systems via existing networks and radio based telemetry system.
- The SAWS PCS currently consists of two separate SCADA systems:
 - **The DYNAC system** controls the majority of the water production system, along with the recycle water distribution system and wastewater collection stations.
 - **The ClearSCADA system** controls the remote sites associated with the former BexarMet system, which merged with SAWS in 2012.

Technical Project Overview

Production Control System (PCS) Upgrade Project

- The PCS SCADA Project will include the installation of a new video wall located at the SAWS HQ facility.
- The PCS SCADA system includes approximately 18,723 I/O points:
 - Analog Inputs: 3,896
 - Analog Outputs: 1,014
 - Discrete Inputs: 10,426
 - Discrete Outputs: 2,869
 - Virtual (Calculated) Points: 518

Technical Project Overview

Production Control System (PCS) Upgrade Project

- The ASR WTP currently is operated with a DYNAC Control System.
- The new ASR WTP Rockwell Platform will be fully redundant on SAWWS provided virtual servers located at the H2Oaks Desalination Facility.
- The ASR WTP SCADA system includes approximately 8,804 I/O points:
 - Analog Inputs: 1,321
 - Analog Outputs: 994
 - Discrete Inputs: 4,330
 - Discrete Outputs: 1,555
 - Virtual (Calculated) Points: 604

Technical Project Overview

Production Control System (PCS) Upgrade Project

PCS-DYNAC Level Transmitter Recalibration

- The PCS-DYNAC system measures elevated storage tank levels from the bottom of the bowl to tank overflow. The PCS-ClearSCADA elevated storage tanks are measured from ground level to tank overflow.
- Both systems use differential pressure-type level sensor.
- To establish consistency across all level measurements, the 27 elevated storage tanks on the **PCS-DYNAC system shall be recalibrated to measure from ground level to tank overflow:**
 - Minor modifications to the existing PLC code at the tank site will be needed to reflect the newly scaled values into PLC-based alarming and onto local indicators.

Project phased Approach

Production Control System (PCS) Upgrade Project

The sequence for the implementation and commissioning of sites will include:

1. Cutover of sites controlled by PCS-ClearSCADA, grouped by HGL pressure zones.
2. Cutover of sites controlled by PCS-DYNAC, grouped by HGL pressure zones.
3. Cutover the ASR-DYNAC system.

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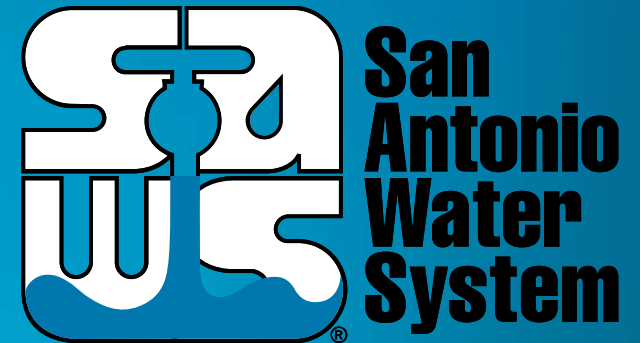
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