



REQUEST FOR PROPOSALS 2017-142

Replacement of the Programmable Logical Controllers (PLCs) at the Manchester Treatment Plant

SUBMISSION DEADLINE: TUESDAY, OCTOBER 3, 2017 @ 3:00 P.M.

SCOPE OF WORK

The systems integrator will replace existing Texas Instrument 505 PLCs with new Allen Bradley CompactLogix PLCs in the existing cabinets. The integrator will create a complete set of as-built drawings for all modified control panels using CAD software, program the new PLCs to perform as the old PLCs with a few exceptions (explained below), install and configure the necessary I/O server for the existing SCADA system (Wonderware InTouch 2014R2), and reconfigure the tagnames to communicate with the new PLCs.

PROPOSED PROJECT SCHEDULE

1. Proposals must be received by the County on or before **October 3, 2017.**
2. Notice of Award to be sent by **October 17, 2017.**
3. Notice to proceed from the County by **December 11, 2017.**
4. Anticipated start of project between **January 8 – February 5, 2018.**

PROJECT REQUIREMENTS

PLC Programming Requirements:

- Must be compatible with RSLogix/Studio 5000 Lite (not full or professional).
- The new PLC software tags will utilize ISA standard tag naming conventions where possible.
- The PLC program will be appropriately commented to clearly illustrate the purpose and operation of all PLC code.
- Converting the existing PLC software using software conversion services and/or tools is not acceptable.
- The Manchester Treatment Plant used to be a SBR plant, but is now a conventional activated sludge plant. All SBR related programming will need to be excluded in the new PLC programming, with two exceptions:
 1. The motive pumps – These pumps will still need to be able to run in hand from SCADA like it does currently.
 2. The blowers – The blowers currently run on a time on/time off basis, and will need to automatically rotate lead/lag in the new programming.

- The integrator will provide electronic copies of the PLC program to the owner for review and approval prior to scheduling equipment installation and cutover.

CAD Drawing Requirements:

- Red-lined pdf or hard copies of the existing control panel drawings are not acceptable.
- The final record drawings will clearly reflect all modifications as well as all unmodified information included in the original control panel wiring diagrams.
- The final record drawings will include all equipment tags, wire and terminal numbers; lines need to be numbered and items cross referenced as well (for example, relay coils must show what page/line number each of its contacts are located and each contact needs to show where the coil is located).

General Requirements and Installation/Cutover:

- The integrator must have operational knowledge of a conventional activated sludge plant and have experience programming for this type of plant; they must portray confidence in their ability to complete the task without disruption to plant performance at any point during project.
- The project will need to be completed within 8-10 weeks from the start of the project to completion.
- The county will allow two (2) 10-hour days for the installation/cutover of the new PLCs.
- The integrator will provide temporary automated controls of the in-plant lift station, aeration blowers, RAS flow system, and any other systems necessary to facilitate the plant operation during the cutover.

Closeout Documentation:

- At the completion of the project the integrator will provide the county with an electronic copy of the following: Final PLC programs, SCADA program, IP Address/MAC address list in excel spreadsheet, dwg files for CAD drawings, and pdf files for CAD drawings.
- The integrator will provide the county one paper copy of the CAD drawings for each PLC cabinet to remain in the cabinets, and two additional paper copies.

SUBMITTALS WILL BE EVALUATED AND RANKED ON THE FOLLOWING CRITERIA:

- Previous Kitsap County Experience
- Ability to meet the proposed project schedule
- Ability to meet the minimum project requirements
- Ability to show no plant performance disruptions on previous projects
- References
- Cost

Please direct questions and inquiries regarding the request for proposal to:

Patrick Kongsle
Kitsap County Public Works
Sewer Utility Division
Utility Operations Supervisor
614 Division Street MS-26
Port Orchard, WA 98366-4699
(360) 337-5768
pkongsle@co.kitsap.wa.us
M-Fri 8:00AM – 3:30PM

Colby Wattling
Kitsap County Administrative Services Department
Buyer
614 Division Street MS-07
Port Orchard, WA 98366-4699
(360) 337-7036
cwattling@co.kitsap.wa.us
M-Thurs 7:00AM - 5:30PM

Please mail or hand deliver two (2) copies of proposals to:

MAIL:
Kitsap County Purchasing Office
614 Division Street MS-07
Port Orchard, WA 98366

EXPRESS COURIER or HAND DELIVER:
Kitsap County Purchasing Office
619 Division Street
Port Orchard, WA 98366

Proposals received after 3:00PM on TUESDAY, OCTOBER 3, 2017 will not be considered.

**PROPOSAL SHEET
2017-142**

**REPLACEMENT OF THE PROGRAMABLE LOGICAL CONTROLLERS AT THE
MANCHESTER TREATMENT PLANT**

The undersigned Supplier proposes to furnish Kitsap County all labor, equipment, materials associated with this project up to the point of delivery and to include technical support during the construction phase of this project, in accordance with the attached Scope of Supply, Drawings and Specifications:

PROJECT COST \$ _____

WASHINGTON STATE SALES TAX (9.0%) \$ _____

TOTAL PROJECT COST \$ _____

Print company name

SIGNATURE _____
Date

PRINTED NAME _____

TITLE _____

ADDRESS _____

Tax ID # _____

PHONE _____ **FAX** _____

EMAIL ADDRESS _____

ADDENDA RECEIPT

Receipt of the following addenda to the subject solicitation documents is hereby acknowledged:

<u>Addendum Number</u>	<u>Date of Receipt of Addendum</u>	<u>Signed Acknowledgement</u>
1	_____	_____
2	_____	_____
3	_____	_____