THE WATER WORKS & SEWER BOARD OF THE CITY OF ANNISTON

ADDENDUM NO. 2

SCADA SYSTEM
REPLACEMENT PROJECT
PIR NO. 5698

ANSWERS TO QUESTIONS

The following modifies, amends, and changes the Contract Documents and Specifications for the above-referenced project.

QUESTION 1
I am writing in regard to the Builder's Rick [Risk] insurance required under General Conditions 01026 paragraph E. As a SCADA integration company, this is not a policy we have been required to carry in the past. Please let me know if this specific policy requirement can be waived for this project.

ANSWER 1
No waiver for this requirement will be given.

QUESTION 2
I am trying to figure out if the City of Anniston is a closed bid, as I have a National Firm interested in placing a bid for the water works project. Any help would be greatly appreciated.

ANSWER 2
Sealed bids will be received until the bid opening date and time at which the bids will be publicly opened and read as set forth in the Instructions to Bidders and elsewhere in the Contract Documents.

QUESTION 3
Is polling a requirement (12.2.4)? The MOSCAD and ACE3600 can operate on contention to maximize the use of the radio spectrum and communicate efficiently using the MDLC radio packetized protocol.

ANSWER 3
The intent of this specification is to ensure that there is not extensive delay (minutes) in the transfer of data from the RTU's to the MTU.

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QUESTION 4
The ACE powersupply is fused, will a separate circuit breaker on the incoming AC power be required (12.1.4.3)?

ANSWER 4
Yes.

QUESTION 5
What is required? The ACE3600 intelligence is in the CPU of the RTU and not in the communications interface (12.1.6.1.1.3).

ANSWER 5
The intent of this specification along with 12.1.7.3 is to eliminate the need for any configuration physically at the remote RTU site.

QUESTION 6
Will workstation computers interface directly to workstation server or to FIU (MTU) as well?

ANSWER 6
According to the proposed SCADA architecture, workstation computers will interface with the central host computer/server via VPN.

QUESTION 7
Is fiber optic communications a backup to radio communications? Is this required in the RTU configuration? (12.1.6.1.2.2)

ANSWER 7
Backup communication is not required by the specifications. Every RTU and MTU shall have an interface module for the type of communication(s) that is proposed in the design for that particular RTU/MTU.

QUESTION 8
What is the requirement for this section (12.7.1.3)?

ANSWER 8
Example: A person with limited computer knowledge and no specialized skill should be able to add an RTU site to the SCADA database.

QUESTION 9
The time stamping requirement for the DI and AI is required at the HMI?

ANSWER 9
I/O Function Module time stamping should occur at the RTU.

QUESTION 10

What is meant by the term "status change validation capability" (12.2.4)?

ANSWER 10
Refer to ANSWER 3.

QUESTION 11
The use of tools to remove hardware in the RTU only applies to the Battery, Motherboard, and Radio. Is this acceptable? The removal of the CPU, Power Supply and I/O modules does not require the use of tools (12.3.1.5).

ANSWER 11
This specification stems from the modularity requirement of the RTU/MTU. The intent is that the RTU/MTU shall be divided into components that can be easily exchanged. The specification would apply to all modules mentioned in the specifications.

QUESTION 12
What is the intent for the ability of polling multiple communications links (12.4.1.2)?

ANSWER 12
Refer to ANSWER 3. Also, it would apply to the necessity of the MTU to simultaneously communicate through all communication interface modules incorporated into the SCADA system design.

QUESTION 13
What is the requirement for the computer/server to be a data backup location for the FIU (MTU)? Is this for a historical archive (12.5.2)?

ANSWER 13
Yes.

QUESTION 14
Is web browser required (12.6.3)?

ANSWER 14
Windows 7 software is specified with workstation computers. Windows 7 will include a web browser.

QUESTION 15
Is the intent of the SCADA software to be "cloud based" on the web (12.7.1.1)?

ANSWER 15
If by cloud based you mean the SCADA software and data are not on my network-connected device but on the host computer/server, then yes, it can be considered cloud based.

QUESTION 16

What is the intent of an unlimited number of networked clients (12.7.1.1.1)? Any 5 City computers can access?

ANSWER 16
There shall be no limit in the SCADA Software (by virtue of licensing or otherwise) to the number of different computers that can access the SCADA system that have, or that can gain, access to the VPN.

QUESTION 17
What is the intent of using this feature (12.7.1.3)?

ANSWER 17
Refer to ANSWER 8.

QUESTION 18
Does this apply to the ability to make database changes or in view mode only (12.7.3.3)?

ANSWER 18
Database changes.

QUESTION 19
What is the requirement for viewing multiple trend graphs simultaneously (12.7.9.1.1.1)?

ANSWER 19
The software should be able to somewhat multi-task and either allow view of multiple graphs simultaneously in separate windows, or allow quick configuration of a view to include multiple graphs.

QUESTION 20
Reports are currently not used with the existing system. Will they be required as part of the new system (12.7.10)?

ANSWER 20
Yes.

QUESTION 21
What is this report and functionality (12.7.10.1.3)?

ANSWER 21
This report shall list all RTU/MTU sites with all of the configuration data.

QUESTION 22
What is the intent of viewing and interacting with multiple windows simultaneously (12.7.11)?

ANSWER 22
There is convenience inherent in the capability of multi-tasking.

QUESTION 23
What is to be covered in the SCADA software and hardware training (17)?

ANSWER 23
Topics that train how to operate, maintain, and expand the SCADA system.

QUESTION 24
A Controls SOW is needed for the programming of the system.

ANSWER 24
More information is required to answer this question.

QUESTION 25
Is this requirement for adding a new site or only when navigating between site screens in view mode on live system (12.7.8.1.1.1)?

ANSWER 25
This section requires a generic default screen for RTU/MTU sites that have been configured, but for which a custom screen has not yet been created.

QUESTION 26
Are samples required (section 01165)?

ANSWER 26
No samples are anticipated on this project.

QUESTION 27
The ACE3600 does not have a separate communications module (radio or network). A USB port is planned for the ACE3680 CPU in the future, but to be determined. What is the intent of this USB port 12.1.6.1.2.3)?

ANSWER 27
This is a service port.

QUESTION 28
Is network communications applicable for the RTU's (12.1.6.1.2)?

ANSWER 28
Network communication may or may not be applicable according to the Contractor's proposed design.

This Addendum shall be attached and made a part of the Contract Documents and Specifications.