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## **Addendum No. 5**

### **IMPROVEMENT PLANS FOR DOUBLE DIAMOND WELL 3**

PWP Bid No. WA-2016-221  
September 8, 2016

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time schedule has changed as published in Addendum No. 4 to September 14, 2016, at 10:00 a.m.

#### **QUESTIONS AND RESPONSES**

**Question No. 1:** After review of the bid documents for the Double Diamond Well 3, it has come to my attention that the RTU control panel design is lacking some major information. There is no control panel layout, backpan layout, specification pertaining to the required components or designation stating who is required to provide this equipment. Addendum 3 clarifies that the RTU, radio and antenna is supplied by TMWA; although there is no defining information regarding who is supplying the RTU control panel enclosure and all other components other than the owner supplied parts.

There is also no specifications regarding the PLC programming, SCADA programming or radio configuration effort and who is responsible.

- Can you please advise who is responsible for the RTU control panel enclosure, other non-owner supplied components and assembly, wire & testing of this complete control panel?
- What does the non-owner supplied components consist of? (power supplies, distribution breakers, Ethernet switch, uninterruptible power supply, convenience receptacles, control relays, etc?)
- Who is responsible for the programming effort? What type of PLC and radio is being supplied? What is the existing software platform for the existing SCADA system? Has a radio study been completed to verify the communication protocol required?

**Response to Question No. 1:** The RTU control panel will be furnished complete by TMWA. PLC and SCADA programming by TMWA.

#### **MODIFICATIONS TO THE PLANS**

Modify ES 8 on sheet E1 by deleting, “Supplied and terminated by TMWA” and adding, “Supplied and terminated by Contractor.”

Delete detail B (ES 8) on sheet E10 and replace it with detail 5 on sheet M4. Electronic Temperature Controller shall be Johnson Controls Model #A419.

#### **MODIFICATIONS TO THE SPECIFICATIONS**

Delete Technical Specification section 16605 in its entirety and replace it with the following:

The design engineer will be providing the final arc flash analysis for the site per IEEE, ANSI, and NFPA guidelines. SKM software will be used for the analysis. The site was designed to maintain a risk level at or below category 2 in all panels. Suppliers of electric equipment shall submit a submittal package with shop drawings that includes the necessary arc flash information (design data and input) to the design engineer so he can run and re-run the arc flash analysis with the proposed equipment and verify the category 2 level is not exceeded. Data submitted shall include but not be limited to short circuit protective device coordination, panel one line diagrams, quantities, impedance data, motor fault contribution characteristics, etc. on all panel boards. The arc flash study results will be provided to the Contractor for the breaker coordination/NETA testing.

**End of Addendum 5**