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February 28, 2023

TO: All Prospective Bidders

FROM: Carla Wint, Procurement Advisor

**SUBJECT: ADDENDUM NO. 2
PWC2223036 - EXCITATION SYSTEM IN STEAM TURBINE
GENERATOR AT THE BUTLER WARNER GENERATION
PLANT**

1. The Specifications and Bid Documents are hereby modified or clarified per the attached documents.
2. The foregoing changes or clarifications shall be incorporated in the original Bid Documents and a signed copy of this Addendum No. 1 shall accompany the bid to acknowledge the bidder's receipt and familiarity with the changes and/or clarifications.

CW: csk

Acknowledgment:

Company _____

By _____

Date _____

EXCITATION SYSTEM IN STEAM TURBINE GENERATOR AT THE BUTLER WARNER GENERATION PLANT

ADDENDUM NO. 2

FEBRUARY 28, 2023

FAYETTEVILLE PUBLIC WORKS COMMISSION

NOTICE TO BIDDERS:

This Addendum shall become a part of the Contract Documents for the above project. The selected Contractor shall be responsible for notifying all subcontractors of the contents of this Addendum.

Revised or newly issued wording, drawings, or specifications contained in this Addendum shall supersede and shall take precedence over any conflicting information which was previously issued. All other terms and conditions of the Contract Documents remain unchanged.

ITEM 1: The following are the questions received prior to the deadline for questions.

1. Please provide existing one-line drawing.
Will be provided at the pre-bid meeting.
2. Page 18, Rectifier Assembly - Please confirm the scope is to provide the capability of Serial communication, not including new wiring to the DCS
Will be addressed at the pre-bid meeting.
3. Page 20, Power System Stabilizer (PSS) - Please confirm the scope is to provide the capability of PSS, but not implement it by including a Tuning Study that would determine tuning constants to be verified during commissioning.
Will be addressed at the pre-bid meeting.
4. Page 21, Remote Operator Panel - is there currently an Ethernet backbone between the exciter and desired Remote Operator Panel location?
Will be addressed at the pre-bid meeting.
5. Page 21, Controls, Metering & Annunciation - If any transducers or relays have been added to the existing exciter panel to facilitate the listed hardwired interfaces, please provide a drawing of them.
Will be addressed at the pre-bid meeting.

6. Page 24, Generator Protection Panel (Optional) - Are redundant relays required?

Not at this time and further explanation will be addressed at the pre-bid meeting.

7. Are there any spare single phase (15A) feeds near the existing exciter?

Will be addressed at the pre-bid meeting.

8. On page 24 of the bid document, existing generator protective relay devices, which shall be upgraded, are listed. One of them is shown with ANSI device number 54. As per IEEE Std C37.2 – 2008, the device number 54 is not a protection relay. It is a turning gear engaging device.

Can you please clarify, and provide a protection relay ANSI number?

This is not a protection relay

9. The new 64F protection relay will be installed in existing Generator Control Panel, inner door. Can you please provide approx. distance between the Generator Control Panel and the generator?

20 Feet If SEL upgrade is included will need to wire to Generator control cabinet approx. 150-200 Feet.

10. Confirm if existing protection relays 21, 32 and 64F setting sheets, the most up-to-date version, will be available for awarded Bidder, as a base for the new protection relays setting calculation.

Copy will be provided

11. Confirm if generator step up transformer 13.8 kV – 66 kV, technical data sheet will be available for awarded Bidder, to define the 21 protection relay settings.

Will be provided

12. In the scope of delivery is there an excitation transformer? It is not mentioned on page 10 Scope of supply, but listed in the factory testing on page 13.

We will be using our current excitation transformer. We will have the name plate data available at the pre-bid meeting.

13. It is stated to use Owners existing field breaker, what type of breaker is it and is it a complete cabinet and field breaker or just the device?

The field breaker is independent and mounted on the wall as a single device. This will be available to be viewed at the pre-bid meeting.

14. In Excitation protection there is 64F (rotor ground protection) page 23 but the same protection is included in the protection section as price option, page 24, where should the relay be included?

The 64F element should be included in the protection package (digital relays) of the Generator Protection Panel. SEL 400G

15. Please provide existing one-line drawing.

Will be provided at the pre-bid meeting.

16. Page 18, Rectifier Assembly - Please confirm the scope is to provide the capability of Serial communication, not including new wiring to the DCS

Will be addressed at the pre-bid meeting. Needed but does not need to go to the DCS.

17. Page 20, Power System Stabilizer (PSS) - Please confirm the scope is to provide the capability of PSS, but not implement it by including a Tuning Study that would determine tuning constants to be verified during commissioning

N/A designed for a Base Load Plant.

18. Page 21, Remote Operator Panel - is there currently an Ethernet backbone between the exciter and desired Remote Operator Panel location?

NO will be Optional

19. Page 21, Controls, Metering & Annunciation - If any transducers or relays have been added to the existing exciter panel to facilitate the listed hardwired interfaces, please provide a drawing of them.

PWC has not added any additional equipment.

20. Page 24, Generator Protection Panel (Optional) - Are redundant relays required?

Not at this time and further explanation will be addressed at the pre-bid meeting.

No!

21. Are there any spare single phase (15A) feeds near the existing exciter?

Inside the MCC there will be a spare single Phase Feed

22. On page 13 of the bid, it mentions that factory testing seems to include excitation transformer testing, however I did not see that the excitation transformer is a part of the scope. Can you please clarify?

Will be discussed in Prebid.

23. If transformer is to be reused, could you please share the nameplate data?

We will be using our current excitation transformer. We will have the name plate data available at the pre-bid meeting.

24. What is the expected award date (approximately) and the delivery date?

PWC would like to award and get a PO before June 30 if possible. Possibly make a milestone payment on official order date/PO date. We have funds in this years Capital Budget, possibly roll over to next year if we don't make that deadline. Delivery date 6 months from PO, install early Spring 2024? Will need to schedule an outage if we think the install will take 3 weeks or longer.