



M E M O R A N D U M

PROC #23-13

CLARIFICATION TO QUESTIONS NO. 1

SENT VIA E-MAIL

DATE: April 19, 2023

TO: ALL PROSPECTIVE RESPONDENTS

FROM: Margaret Maddalena, Contract Administrator

RE: **RFP #004-2023 ENGINEERING DESIGN SERVICES FOR WSPS SUBSTATION**

Question #1. Please provide the following WSPS facility One-Line Diagrams for our use in developing the proposal:

- a. Overall, one-line diagram
- b. Relay & Protection, one-line diagrams
- c. 4160V & 480V, one-line diagrams

RESPONSE: ***Please see Attachment #1, WSPS Electrical One Line Diagram.***

Question #2. Please indicate where the Point of interconnect is between the Utility and WSPS.

RESPONSE: ***Please see the sketch in Attachment #2. The Point of Interconnection is at the incoming side of the air breaker.***

Question #3. Who owns the incoming 26kV feeders between the utility pole at the road and the substation riser in the WSPS yard?

RESPONSE: ***Those feeders are owned by PSE&G.***

Question #4. RFP indicates that "the incoming PSE&G feeder will be extended from its current location to the new substation." If this is a utility

owned cable, Has WSPS discussed acceptance of splicing and extending the conductors to the substation location?

RESPONSE: *NJDWSC has not discussed this with PSE&G. That discussion is part of the Engineer's scope of work during the engineering phase when determining whether to splice or replace the existing cable.*

Question # 5. If incoming feeders allow for splice, who will own the splice?

RESPONSE: *The answer to this question is to be determined by the Engineer via discussions with PSE&G during the engineering phase.*

Question #6. Please clarify the RFP intent for existing secondary 4160V feeders between the transformer and indoor 4160V Gear. Is the intent to install new 5kV conductors or extend the existing cable to the new equipment similar to incoming 26kV feeders?

RESPONSE: *New feeder cables shall be installed between the substation transformer and the pump station.*

Question #7. The RFP indicates "The existing substation needs to be kept in service while the new substation is being constructed. The layout of the new substation shall account for this. The existing substation will be de-energized to tie in the new substation and facilitate its start-up and commissioning." Please clarify what outage duration is acceptable to WSPS for cutover to the equipment.

RESPONSE: *Allowable outage duration may vary based upon reservoir water levels. At a minimum, the WSPS is offline for two months in July and August. If reservoirs are full at the time of start-up and commissioning, an extended outage would be acceptable.*

Question #8. The RFP indicates "It is anticipated that the substation will require an access platform for operation and maintenance along with site improvements including a chain link fence and ground covering "The existing substation yard has a chain link fence and crushed gravel ground covering. If the new equipment fits within the existing yard will a new fence and ground covering still be required to replace the existing?

RESPONSE: *A new fence and gate will be required. Ground covering will need to be replaced where required by design modifications, new layout, and code.*

Question #9. The RFP indicates "The new substation shall be within an enclosure, except for the transformer which will be mounted outdoors. Protective relays and associated components including the incoming breaker shall be mounted within the Engineering Design Services for WSPS Substation enclosure. The transformer and enclosure shall be elevated and mounted on a concrete pedestal to account for floodplain elevations." Does WSPS prefer a walk-in "PDC style enclosure or just equipment Suitable for outdoor installation?

RESPONSE: *Protective relays and associated components, metering and battery UPS shall be mounted in a walk-in weather-tight enclosure, or PDC style enclosure.*

Question #10. The RFP is silent on the 125V DC system requirements. Will the existing DC system in the existing control building be replaced with new or reused and reconfigured for the new substation control power requirements?

RESPONSE: *A new complete 125V DC UPS system shall be provided including batteries, chargers and distribution panels. It is envisioned that this equipment will be mounted in the same weather-tight enclosure with the protective relays, metering, etc.*

Question #11. Are we replacing the existing yard lighting? Please note, the existing yard lighting appears to have six flood lights for illumination of the entire existing yard. Are these operational? Are we replacing it with new?

RESPONSE: *The existing yard lighting shall be replaced with new.*

Question #12. IS FR3 fluid acceptable for the new Substation Transformer?

RESPONSE: *The Engineer shall select the transformer fluid based on transformer requirements, environmental considerations, and Federal, State & Local regulations while taking into account the substation is in a floodplain.*

Question #13. Please provide existing substation yard grounding drawings for development of our proposal.

RESPONSE: *The existing grounding system shall not be reused. A new system shall be designed.*

Question #14. Is there an existing up to date SKM model of the existing electrical system. If so, can you provide for our evaluation and development of our proposal?

RESPONSE: *NJDWSC does not have a current updated SKM model. A new SKM model will need to be run by the Engineer.*

Question #15. Are any CAD files/backgrounds available for the site/substation yard?

RESPONSE: *Unfortunately, no CAD files are available. However, please see Attachment #3 – WSPS Proposed Site Plan for the 1984 design layout. NOTE: This is not an As-Built Drawing, and all dimensions and information shown thereon must be field verified.*

Question #16. Is the foundation design for the replacement transformer to include oil containment?

RESPONSE: *It is part of the Engineer's Scope of Services to determine if oil containment is required. ALL regulatory requirements are to be determined by the Engineer as part of the Scope of Work.*

Question #17. Has the ownership of the 26 kv line from the riser pole on the street to the existing substation been determined?

RESPONSE: *Yes. Refer to Response to Question #3.*

Question #18. During the pre proposal meeting, lightning protection was mentioned, there are taller objects within the yard and we want to confirm this will be required.

RESPONSE: *Since the new substation is being totally redesigned, a new lightning protection study shall be undertaken, and if shown to be required, a new lightning protection system shall be designed.*

Question #19 Is there any information for the existing grounding in the yard like cad files or pdf's. The intent is to have the entire grounding system interconnected.

RESPONSE: *There is no information available on the existing grounding system. Engineer to evaluate existing system and determine if adequate, and design a new system or upgrades as required.*

Question #20 Is the intent to reuse the existing batteries or propose new? When were the existing batteries last replaced?

RESPONSE: *A new complete 125V DC UPS system shall be provided including batteries. See Response to Question #10.*

Question #21 Are there any existing CAD files for the yard (topo) and or CAD of the oneline diagrams?

RESPONSE: *See Response to Question #15. There are no CAD files available for the One-Line Diagram.*

Question #22 During the proposal meeting it was discussed that some survey was done and shots were taken of elevations, are there cad files of the survey?

RESPONSE: *An Elevation Survey was performed by Colliers in 2022. A pdf file of the Elevation Report is included herein as Attachment #4. There are no CAD files available.*

Question #23 The cables coming from the utility had a date of 2014 and therefore were replaced 10 years ago, have the wires from the transformer into the building been replaced?

RESPONSE: *No, the cables have not been replaced. See Response to Question #6.*

Question #24 Please confirm that the intent is to splice the main feeder from the old station to the new station in lieu of running a new feeder and conduit from the utility pole in the street.

RESPONSE: *See Response to Question #4.*

Question #25 Please provide a survey showing the property lines associated with this facility.

RESPONSE: *NJDWSC does not have a current Property Boundary Survey of the WSPS. Please refer to the Response to Question #15.*

