

February 26, 2016



Addendum 2  
Invitation to Bid 16109  
Kongiganak Rural Power System Upgrade Project  
On behalf of the Puvurna Power Company

Addendum 2 is issued for clarification purposes. Note items in "red" below are added or new information:

**Unchanged.** Bidders shall submit sealed bids in single (1) copy [refer to 00120.1 Required For Bid, page-15 of the original bid document]. All Bids including any modifications or withdrawals shall be received prior to the bid opening; bids will be publically opened at Authority's Office on **March 3, 2016 at 2:30 p.m. Alaska time**, Willow Conference Room.

1. Please acknowledge receipt of all addenda on the Bid Schedule.
2. Since there are no quantities of demolition, can we either get a demolition staking sheet, or if that is not possible, have the existing distribution system overlaid on the new construction print?

The existing distribution system is shown on sheets E2.1 through E2.8 with demolition called out in notes on the drawings. In general, the entire system will be demolished, stopping at location 16, as shown on sheet E2.5, with the exception of the work at location 29 as shown on sheet E2.6. As noted on the drawings, the existing poles that have telephone cables attached will remain. All primary conductors, cross arms, and other equipment identified on the drawings will be removed. Additional requirements for demolition are identified in specification Section 16050.

3. Do you have any additional information on the barge landing? Whose property is it on? Will any extra work be required on the contractor's part for using it? Do you have any local contact numbers available for further information?

The barge landing is owned by the Tribal Council. The best contact for information would be the Tribal Administrator, Lewis Phillips; his phone number is 907-557-5226.

4. Is there a requirement to use local labor force in the community? Will there be a local labor fund and, if so, how much money will be allocated?

There is no requirement to use local labor force in this bid; although AEA certainly encourages Primes to use local hire when they can. Contractor shall be responsible for all labor related to this work.

5. Is there a contact in the community for available housing?

Contact Roderick Philips, 907-557-5614, for information on the available housing in the community.

6. Boardwalk R&R – Is there an estimated quantity / linear footage of boardwalk to be removed and replaced? Other than the power house are there any other places that the boardwalk will need to be removed and replaced?

The only area of boardwalk specifically called out to be removed and replaced is directly in front of the power plant. All other locations will be at the discretion of the contractor and subject to the construction methods of the Contractor.

7. What type of lumber will be required when replacing the boardwalks if new is required?

CAC or ACQ treated lumber. Dimensions shall be same as the existing boardwalk being replaced. Fasteners shall be hot dipped galvanized same size as existing boardwalk.

8. Staking sheets there is a reference to Note 12, but there is no Note 12.

See Item 34 on this addendum.

9. Can we abandon in place the UG conduit where it is called out to remove due to the fact that this work is going to have to be done in the winter months?

Yes, underground conduit can be abandoned in place as long as the above grade portion is removed.

10. Does the 2" GRC run from pole 1A-1B-5 to the tank farm? Or does it stop in the middle??

Currently, the tank farm and dispenser is powered from a 480 volt, single-phase transformer on pole 1A-1B-5 underground to a secondary pedestal at the dispenser. There are two conduits, 1" and 2", that are routed on the boardwalk between the tank farm and the dispenser, one for power and one for controls. It appears that the 1" conduit is for power. Contractor shall remove the power conductors from the pedestal to the dry type transformer at the tank farm and abandon the conduit in place, as noted. Contractor shall provide new conduit for the new power supply to the tank farm as indicated. The existing conduit between the dispenser and the tank farm will be abandoned in place. Contractor shall verify that the operation of the dispenser continues as existing.

11. Are the new poles getting labeled or pole tags?

All new poles get pole tags. See specification Section 16400-2.11.

12. E2.1 – E2.5 various notes call for the poles to remain unless specifically called out to be removed. Is this correct?

As specified in Section 16050, noted in General Note 4 on sheet E1.2, and called out on the drawings, nearly all poles have telephone or other cables attached and those systems must remain in place. As specified, those poles will remain.

13. Staking sheet pg4, pole 2A, should that read S2.32A and not C2.32A?

Yes, that is correct. Pole 2A should read **S2.32a**.

14. Is there any gravel or dirt available in the village during the winter months?

The design team is not aware of any locally available fill, however the Bidders are encouraged to contact the Utility for additional information on site specific questions.

15. Sheet E4.2, detail 2, note 1 3-12x12 timbers. Stacked 3 high, 1 wide is what the ENG wants?

Yes. If the contractor wants to offer some type of equivalent protection the Engineer would be open to alternates.

16. Is there anyone in the village to locate utilities?

The design team is not aware of any local utility locators. The Bidders are responsible for contacting the regional and local utility offices and requesting locates where appropriate.

17. Note #6 on drawing E2.4, states that we deliver retired transformers to a location designated by the owner. Is the location in Kongiganak? If not, then where?

Yes, the location will be in Kongiganak as directed by the Puvurnaq Power Company

18. Demolition of existing distribution system section 16050-2 subsection 1.05 Page 175. What materials would the power company possibly want to keep?

Contact Roderick Philips, 907-557-5614, Puvurnaq Power Company to coordinate what material are to be salvaged and where to deliver store or dispose of them.

19. Is there a legal landfill in Kongiganak?

The existing Kongiganak Landfill is not permitted with the Department of Environmental Conservation.

20. Sheet E2.1 General notes #3 states underground conductor to remain unless Alternate additive 1 is awarded. Is Alternate additive 1 underground conductor or overhead continued on Drawing E3.4., there appears to be conflicting specifications.

Additive alternate No. 1 is the replacement of the overhead system in the HUD homes as shown on drawings E3.4, and E3.5. Note 3 on E2.1 should read Additive Alternate No. 2. Also, the leader from the Note 3 callout at location 3 should only point to the underground portion of the cable. The cable between the sectionalizing cabinet called out by Note 2 to location 3 will be replaced.

21. Note #5 on drawing E2.1 states that existing poles to remain except where specifically indicated to be removed. Where can I find this detail?

There is no detail for poles to be removed. Most existing poles have telephone and other cables on them and those systems must remain in place. This is explained by General Note 4 on sheet E1.2 and in specification Section 16050. So, unless a pole is noted to be removed, it will remain and be dealt with as specified or noted

22. What type light fixture at 1E-1A?

This will be **Electrical Equipment Schedule (see sheet E1.2) Item No. 1.**

23. Pole 2B-2A drawing states 20ALEDE53 streetlight, staking sheets state DSXFLED6 flood light.

As shown on the drawing, the light will be **an Electrical Equipment Schedule (see sheet E1.2) Item No. 1.**

24. Pole 2B-2B-2 drawing states DSXFLED6 flood light, staking sheets state 20ALEDE53 streetlight.

As shown on the drawing, the light will be **an Electrical Equipment Schedule (see sheet E1.2) Item No. 4.**

25. Drawings state 80BLEDE70 streetlights installed @ 2E-2, 2H-1 And 2K. Only 2H-1 listed on staking sheets.

Streetlights are to be installed at all locations as shown on the drawings.

26. Pole 3 staking sheet states 20ALEDE53 streetlight, drawing states DSXFLED6 flood light.

As shown on the drawing, the light will be an Electrical Equipment Schedule (see sheet E1.2) Item No. 2.

27. Pole 3B staking sheet states DSXFLED6 flood light, drawing states 20ALEDE53 streetlight.

As shown on the drawing, the light will be an Electrical Equipment Schedule (see sheet E1.2) Item No. 1.

28. If you look at the rec out pages of the drawings E2.1 and E2.4 it states that new conduit and conductor will be replaced if alternate #1 is awarded. On the new section of drawings, replacing the conduit and conductor is alternate #2.

Replacement of the underground cable between locations 3A and 4A is part of Additive Alternate No. 2.

29. E2.4 – Note #2 states the sectionalizing cabinet is to be removed. The new sectionalizing cabinet for this section is alternate #1. If they remove this cabinet on the base bid, and the alternate is not awarded, what do they do with the existing line?

As described on sheets E3.1 and E3.4, a new sectionalizing cabinets will be provided whether Alternate No. 2 is selected or not. If it is not selected, then the new sectionalizing cabinet will be located over the existing conductors. If Alternate No. 2 is selected the sectionalizing cabinets will be located as shown on E3.1 and E3.4.

30. Would the electrical engineering authority accept an alternate equal to the specified LED streetlight fixtures and supports?

Yes, an equivalent alternate would be considered.

31. What is the size of the existing OH wire?

#2 ACSR

32. Would it be acceptable to utilize driven piles for anchoring guy lines in place of the specified helical anchors?

No. Piles are not an acceptable substitute for the specified helical anchors.

33. Clarify the number of transformers for Pole 2A.

There are no transformers at Location 2A. The question may be in reference to Location 2, where there will be only one transformer.

34. It is understood that Unit UC2a, Three Phase Riser, is used in conjunction with the S2.32b Gang Operated Loadbreak Switch. What is the specification detail to be used for unit UC2b at Pole #1?

Unit UC2b will be similar to unit UC2a except it will connect to unit C6.21 instead of a gang operated switch. Provide crossarm similar to RUS unit UC2 for routing of the conductors up to unit C6.21, but install 15 kV insulators, installed horizontal on the crossarm, instead of cutouts.

35. Clarify the means of disconnect at Pole #4 with underground riser Unit UC2A.

There will be no disconnecting means at Location No. 4. The underground riser will connect to unit C5.21. Provide crossarm similar to RUS unit UC2 for routing of the conductors up to unit C5.21, but install 15 kV insulators, installed horizontal on the crossarm, instead of cutouts.

36. Page 4 of 7 of the staking sheets, Pole #2A, clarify Unit C2.32a?

The unit will be S2.32a. See Staking Sheets below in item 39.

37. Specifications: Make the following changes to the project specifications:

Section 16400, paragraph 1.01. Add a new paragraph to read as follows:

D. The drawings, specifications, and staking sheets are complementary. What is shown on one is binding whether shown or specified in the other or not. Failure to check all documents will not be grounds for a change order if additional equipment or material is required to be provided by the Contractor after the Engineer reviews the submittals or installation, or deficiencies are identified during testing, either in the Factory or the field.

Section 16400, paragraph 2.01. At the end of this paragraph, add a new sentence to read: "Pole numbers shall be installed on each pole. Existing poles within Additive Alternate No. 1 area that are shown to be reused, up to Location 15A, shall be renumbered as indicated on the Staking Sheet and provided with a new pole tag. Any existing tags or markings shall be removed."

Section 01370, paragraph 2.02, Schedule of Values.

- At unit G1.4-25, revise the description to read: "SINGLE PHASE CONVENTIONAL TRANSFORMER (TANGENT POLE), 15 KVA.
- At unit G3.3-25, delete reference to CSP.

38. Drawings: Make the following changes to the project drawings:

- Sheet E2.1, Note 10. Revise the note to require unused H-piles to be cut-off 6 inches below ground level.
- Sheet E3.6. Revise the note near location 29 to read: “All work on this sheet shall be part of the base bid.”
- Sheet E4.2, Detail 1, RUS Unit UM33a. Add the following notes to the detail:
  9. At each UM6-21 provide 2 inch high vinyl, red with white letters, tags above the junction identifying the phase of the junction.
  10. On each 15 kV cable, provide a 3 inch by 1 inch horizontal, white cable identification tag with the phase of the spelled out on the tag, i.e. “PHASE A.”
  11. On the exterior of the sectionalizing cabinet install a warning sign to read: “DANGER, HIGH VOLTAGE.”

39. Staking Sheets: Make the following changes to the project staking sheets.

- At Location 2, revise the quantity of G1.4-25 transformers to one.
- At Location 2A, revise primary assembly C2.32a to S2.32a.
- At Location 3A, add Note 13 in the Remarks/Comments/Notes column.
- At Location 4A, add RUS Unit UR2-1 in the Miscellaneous Construction Unit column. Burial depth shall be four feet. At 12 inches below grade, install 4” wide detectable a warning tape to read, “CAUTION, HIGH VOLTAGE LINE BURIED BELOW.”
- At Location 4A, add Note 13 in the Remarks/Comments/Notes column.
- At Location 29, add a note to read: “Work this location part of Base Bid.”
- At the Staking Sheet Notes, add a new note 12 to read as follows: “Contractor shall ensure that pole is no closer than 450 feet from the runway centerline. Location shall be surveyed to verify distance from runway centerline.”
- At the Staking Sheet Notes, add a new note 13 to read as follows: “13. Provide 2 inch high vinyl marker on the outside of the sectionalizing cabinet with the location identification as indicated on the Staking Sheets.”

40. Should the new transformers be WYE or DELTA? Is the existing power system grounded wye or is it delta?

The existing power system is a grounded wye. All new transformers will be provided as specified in specification section 16451, paragraph 2.02 with dual primary bushings and a primary voltage of 7200 volts. All transformer secondary voltages will be as specified in paragraph 2.02. All new three-phase transformer banks will be connected wye-wye.

Very truly yours,

*Althea S Clapp*

Althea S. Clapp, Sr. Contracting Officer  
[aclapp@aidea.org](mailto:aclapp@aidea.org)

End of Addendum 2