Chugach Electric Association, Inc.
Anchorage, Alaska

February 14, 2020

TO: Prospective Proposers

FROM: Chugach Electric Association, Inc.
5601 Electron Drive
Anchorage, Alaska

SUBJECT: *RFP 20-01*
SPP Generator Testing and Inspection
Questions and Answers

This document forms a part of the RFP Documents.

Acknowledge receipt of this document in the space provided below and include the document with your RFP submittal. Failure to do so may subject the Proposer to disqualification.

This document consists of five (5) pages, including attachment.

Q1. Notice and Instructions to Proposers, Page 2

a. The work is not subject to the union signatory section, Section 2.12.4(a), of Chugach's Generation Agreement.
b. QUESTION: Would it be possible to provide the "generation agreement"?

A1. This is a confidential document that won't be shared. Please include any exceptions in your Proposal.

Q2. Chugach Responsibilities, Page 4 , Section 4.1

a. Chugach craft will perform work associated with preparing generator for testing and reassembly.
b. QUESTION: What work will the Chugach technicians perform?
i. The disassembly and reassembly of the generator for testing?
ii. Removal/refit of exciter end cover?
iii. Opening/closing stator terminals etc.?
iv. The isolation of generator and lock out tag out.?

A2. Chugach SPP craft will prepare the generator for testing. This work includes lockout/tagout, disconnection of the stator terminals, disconnection of rtds, removal of exciter end cover, and removal of dogbones to isolate the rotor from excitor.

Q3. Schedule, Page 4, Section 5

a. **QUESTION: Are these dates fixed?**
    a. **Will it be possible to perform unit 11 and 12 in series and in one mobilization?**

A3. The dates are fixed. The 3x1 power plant is operated as 2x1 during each generator testing so only one unit is offline. Once unit 11 is back in service, unit 12 will be shutdown and prepared for generator testing. It is the Contractor's choice to wait for the second unit or return.

Q4. Safety, Page 4, Section 6

c. Contractor shall comply with Chugach safety procedures for work being performed
    i. **QUESTION: Will it be possible to get a copy of Chugach safety procedures?**
        1. **Will there be onsite safety training for Brush engineer?**
        2. **How long will it takes for training?**

A4. The onsite safety orientation for SPP is approximately 30 minutes. The Contractor is required to participate in Chugach's lockout/tagout, work permit, plant PPE, ladder safety, and any other safety procedures normally followed in the plant. The Contractor awarded the contract may request specific Chugach policies for the work to be accomplished.

Q5. General

a. **QUESTION: Will Chugach provide photographs of the Generator and the work area?.**
    i. Are the stator terminals taped which needs un-tape for stator testing?

A5. The stator terminations are taped and removal is part of preparation for testing performed by Chugach. The four generators are located inside with the floor of each generator package at grade elevation. Units 11, 12, and 13 generators are located inside an enclosure with limited space. A general picture showing stator termination bus duct is included.

Q6. Attachment A Scope of Work (page 7 of RFP)

1.e.General overall condition of stator.

QUESTION: What type of inspection? Is it just the visual inspection of the stator? Are you looking for a stator windings inspection? Any borescope inspection required?

QUESTION: Will Chugach craft remove the top end frame covers for the winding inspection?

3.c General overall condition of exciter

QUESTION: What type of inspection? Is it just the visual inspection of the exciter and rectifier?

A6. The type of visual inspection is general condition of exciter and rectifier. End frame covers will not be removed. No boroscope inspection is required.

Q7. General

QUESTION: How high is the stator main terminals from the ground? Will Chugach provide scaffoldings, if needed?

A7. Approximately 7'. Work is performed from ladders, see attached pictures. Stator terminations are inside the stainless horizontal bus tray.

Q8. Do you have nameplate data for each unit? This is not absolutely necessary as you have provided the output rating, but it will serve to provide a more comprehensive Proposal.

A8. See attached pictures of nameplates. Unit 10 is the 67kVA unit, the other three units are identical 57kVA as the nameplate shows.

Q9. Our assumption is the units are 2-pole, 3,600 rpm. Is this correct or are they 4-pole generators?

A9. 2-pole 3600 rpm.

Q10. Can we assume Chugach will provide mechanical support, i.e. removal of end shields, inspection covers, etc.?

A10. Chugach craft will perform all labor related tasks for disassembly and reassembly.

Q11. Can we assume Chugach will provide electrical support for disconnection/isolation and reconnection/re-insulation of generator mail and neutral leads?

A11. Chugach craft will perform all labor related tasks for disassembly and reassembly.

Q12. Can you provide an editable sample contract to facilitate comments thereto?

A12. No. Please list your exceptions by Section and characterize the nature of the exception.

Q13. The schedule outlined in the RFQ indicates the possibility of performing inspections of units 11 and 12 in series. If this is true; we could offer savings associated with mobilization of personnel and equipment. How would you like to see this presented?

A13. See answer to Q3.

Q14. If a company has not been in business for the full 3 years, will it be disqualified as a result of not having OSHA recordable incident rates for the past 3 years as outlined in the RFQ?

A14. The Proposal won't immediately be disqualified without detailed review of the submitted references, safety records and HSE plan.

Q15. Are there special site access or site PPE requirements we should account for? Examples of "special" would mean site orientation requiring more than 1-2 hours, NSTC, OSHA10, or Basic Plus, training, PPE beyond: steel toed boots, safety glasses, hard hats, hearing protection, etc.

A15. See answer to Q4.

Q16. Attachment A: Scope of Work, page 7:…electrical tests and inspections of the field and stator of the generator in situ." Will the rotor of each generator be removed from the stator for the inspections?

A16. Rotors will not be removed.

Q17. Attachment A: Scope of Work, page 7: "Unit 10, Unit 11, Unit 12, Unit 13" Is the nameplate information of all generators available? If yes, please provide.

A17. See answer to Q8.

Q18. Attachment A: Scope of Work, page 7: "Unit 10, Unit 11, Unit 12, Unit 13" Is the nameplate information of all generator exciters available? If yes, please provide.

A18. See answer to Q8.

Q19. Attachment A: Scope of Work, page 7: "Unit 10, Unit 11, Unit 12, Unit 13" Are the Are the exciters stand alone or shaft mounted?

A19. Shaft mounted.

Q20. Attachment A: Scope of Work, Section 1: Stator Tests, a) RTD Wire Resistance, page 7. 1) What is number of leads of the RTD (3 or 4)? 2) What is the number of the stator RTDs to be tested?

A20. All RTDs are 3 lead. Unit 10 has 19, Units 11, 12, and 13 have 16 each

Q21. Attachment A: Scope of Work, Section 1: Stator Tests, e) Generator overall condition of stator, page 7. To what degree the stator will be exposed for the inspections? For example; winding overhand areas at both ends, stator bore, etc.

A21. See answer to Q6.

Q22. General Instructions, Section 6. Safety, page 4: "Contractor shall comply with Chugach safety procedures…" Is any Chugach safety training required for the Contractor to access the site for testing?

A22. See answer to Q4.

Q23. Services Contract between Chugach Electric Association, Inc. and, Section 14, page 6: Accounting & Right to Audit:"…the Contractor's normal working hours…" What will be considered normal working hours by Chugach for the inspections and how many hours per day?

A23. 7 am to 7 pm, 12 hrs/day.

FIRM:_____

TITLE: _____

BY: _____

DATE: _____

END OF QUESTIONS AND ANSWERS FOR RFP NO. 20-01