AMENDMENT TO REQUEST FOR PROPOSAL
UAF Electrical Supervisory Control and Data Acquisition System (SCADA)

REQUEST FOR PROPOSAL NO. 12P0010RD
Procurement Officer: Rick A. Danielson
Issue Date: November 23, 2011

AMENDMENT NO. 1
Effective Date: December 6, 2011

ISSUED TO:
All Prospective Offerors

ISSUED BY:
University of Alaska Fairbanks
Procurement & Contract Services
PO Box 757940
Fairbanks AK 99775-7940

Dear Vendor:

The following clarifications, revisions, and changes have been made to Request for Proposal No. 12P0010RD for UAF Electrical Supervisory Control and Data Acquisition System (SCADA):

This amendment does not provide for a change in the solicitation closing date: Friday, December 16, 2011, 5:00PM local time.

This amendment requires acknowledgement, please see the final page

Based on questions derived from the pre-proposal conference, the following information, modifications, and UAF’s response to questions and clarifications shall be incorporated as part of the above referenced proposal and its specification.

The following companies and organizations were represented at the pre-proposal conference:

Ryota Abe Electric Power Systems
Ross Klooster WH Pacific, Inc
Lucas Sulien Miranda Electric
Richard Freese Power Engineers, Inc
Liam Somers Square D by Schneider Electric
Shelly DeGrate Powell Electrical Systems, Inc
Calvin Meade Powell Electrical Systems, Inc
Steve Doman GE Energy
Velibor Peric McLaren Inc.
John Benson Siemens
Troy Mielak Square D by Schneider Electric
Dean Klas SEL Engineering Services
Charles Muschany Electric Power Systems
Zlatan Fazlic GE Energy
Scott Olson Power Engineers
Gary Donofino Power Engineers
The following section contains answers to questions either provided in writing prior to the pre-proposal conference, or during the pre-proposal conference:

1. **Question:** The attached specifications downloaded from the website, Page 2, table of contents, Sections 16051 through 16717 do not seem to be included, should they be?

   **Answer:** No, they were removed from the project, a corrected table of contents is attached as a replacement page showing strikethrough changes.

2. **Question:** Is this solicitation (UAF Electrical Supervisory Control and Data Acquisition System - SCADA) only available for small business set asides or is it available for everyone to bid?

   **Answer:** Small business set aside does not apply to this solicitation.

3. **Question:** On page 2 of your RFP second paragraph under Purpose of Solicitation- You state that UAF will enter into a contract with a highly qualified hardware and software vendor. (deleted) an engineering firm with many years of SCADA design and implementation does not fit into a "hardware or software vendor". Does this preclude us?

   **Answer:** As for your question #1, the intent of that statement is for declaration by UAF that the contract awarded from this solicitation will be to a highly qualified offeror(s). We will not award to unqualified, or even marginally qualified proposals. Our intent was state that early for the benefit of groups that may not meet the level of experience or expertise required for the technical scope of this project. Knowing the amount of time and effort it will take to respond to this solicitation, and create a proposal, we wanted to clearly announce a significant component of our award criteria. It is not limited to hardware and software specialties.

   The reality is, we believe the scope of this project will necessitate collaborations between organizations, and a logical division would be between software and hardware experienced companies. The scope of this project certainly requires high level of engineering and project management strengths, and we certainly believe highly qualified engineering firms would be a strong candidate as the prime or sole offeror.

4. **Question:** You specify that the work will be done by KBG to install the design on the second to last paragraph on page 2. In Volume 2 Division 1 & 16 Technical Specifications under Summary of work Part 1 General 1.01 Background A. 2. Although all craft or trades work occurring as a result of this Contractors work is intended to be performed by KBG, it is intended that all such construction tasks be directed to UAF, who will then formally authorize tasks performed by KBG. Contractor coordinates the details of this relationship with UAF; “I realize that you go on and state that not every detail of every authorized task must be strictly routed through UAF to the point of poor execution. My question has to do with the “Liquid Damages on page 5 of the RFP of $4,500 per day will be assessed for each day until completion and acceptance are achieved. How does the contractor control the completion of the project that is on a “time sensitive date” date of June 30, 2012; page 5 of RFP, without complete working control of KBG? Will KBG be responsible for a portion of the Liquid Damages if they delay the project with labor issues and so forth?

   **Answer:** The SCADA contractor will be responsible for technical supervision of the installation by KBG although it is contracted through UAF. Part of our evaluation will include looking at offerors
time line as being realistic and providing adequate time for installation.

Currently, there is significant infrastructure in place for the project including floor space allocations and raceways, that portion of the physical work is progressing. As for the liquidated damages clause, it would be applied to the contractor, if in fact work the contractor is responsible for is incomplete or inadequate. Based upon the expense to the University using alternative power generation options, there is a real and defined excess cost to us, and our schedule and completion timing is very significant.

5. **Question:** Does the SCADA system need a PE?
   **Answer:** The SCADA Vendors shall be responsible for all permits, electrical inspection and AHJ requirements. It is recommended that a PE supervise the SCADA design, but it is not required. All network design shall be done by Registered Communications Distribution Designer (RCDD certification) with 5 years of minimum experience.

Please provide all panels and cabinets with UL508A label as per Section 16800 Panels, 1.04 Design Requirements, C Labeling, 1 “Manufactured in conformance with UL 508A and shall bear the UL label”.

6. **Question:** Is there a detailed list of I/O hardware and soft points identified?
   **Answer:** The contract documents provide functional performance requirement that the SVC shall provide a completed SCADA System.

The SVC shall use Division 16780 and the HG1xx series drawings that summarize types and quantity of IED and hardwire I/O points for accurate cost estimate for this RFP. A detailed I/O list is not required.

The contractor shall make use of all capabilities, metered values, and other data available from the relays and other IED to meet the requirements. Note that some specific requirements in regard to electrical system operation are found in specification 16900 paragraph 2.03 and subparagraphs. The E8.xx series drawings also show some specific minimum requirements that are driven by existing equipment and other previously defined project needs and preferences.

7. **Question:** I may be misinterpreting the number of panels, but it seems to be inconsistent between the text and the drawings. I would assume the drawing is probably the most accurate. Is this correct?
   **Answer:** “Text” is the specifications, and “drawings” is the HG1 drawings. The HG1 drawings focus on the SCADA system in very general terms, and are intended to be conceptual use in terms of SCADA equipment Cabinets supply only. The specifications (particularly in the scope of work verbiage) are more specific and aligned with the R and E-series drawings. The specification coupled with the R and E-series drawings determines all SCADA Cabinets, panels and detail requirements of the project.

8. **Question:** Kiewit will perform all installation and termination, is this correct?
   **Answer:** Yes; also referred to as KBC, UAF, and possibly Fullford Electric

9. **Question:** The SVC will identify all cables and terminations, but either UAF or Kiewit will purchase those items directly. Is that correct?
   **Answer:** Yes. To clarify: identify means specify as the SVC is responsible for the performance of the installed system and the communication cables.
10. **Question:** I did not see the specific requirements for the relays in the relay panel. This may be in a different document that I have not reviewed yet.
   **Answer:** The E8.xx series drawings show relays and list part numbers. Most are SEL products, and most exist. Some products are “preselected” by UAF, specifically review specification 16900 paragraph 1.02 F and subparagraphs to understand the role of the SVC.

11. **Question:** Do all SCADA stations require control capability? This information affects some of the HMI software licenses.
   **Answer:** Yes. Control is normally from the HMI in the Atkinson Plant Control Room, but local HMI shall be available from each of the areas if the campus wide network is not available. The SVC shall provide control functionality and security on the SCADA to transfer the control for local or remote. Provide the following options:
   1. Primary (Atkinson Steam Plant and secondary (SCB) servers
   2. Local HMI available from each area if campus network is not available or local control is needed for testing or maintenance.

12. **Question:** Can the SCADA/HMI computers be commercial rackmount (like Dell)? I did see in the specs some statements regarding no spinning drives or fans, but I want to clarify this. Going with a commercial PC does allow us to get more storage capacity and faster computers for more responsive HMI.
   **Answer:** For the HMI’s only, a true commercial grade PC is acceptable. The specification regarding solid state drives, etc., is intended for SCADA Computers, logic processors, information processors, and other similar equipment located in the SCADA Cabinets.

The following items are clarifications to the specification or minimum standard declarations for a specification or process as stated in the solicitation, and shall be considered part of the proposal specification:

**Clarification:**
1. Specification 16820, paragraph 2.01 A 4: After the words “SKM Systems Analysis, Inc.” add “Preferred as this software is currently utilized by UAF.”

**Addition:**
1. Table 4.1 Campus Switchgear Building (CSB) Bill of Material is provided.

   **Attached, and added to the original download link:**


   [http://fs8.fs.uaf.edu/uter/SCADA/Volume%201%20Tables/12P0010RD_Volume%201_tables.pdf](http://fs8.fs.uaf.edu/uter/SCADA/Volume%201%20Tables/12P0010RD_Volume%201_tables.pdf)

All other terms and conditions remain the same.

Sincerely,

UNIVERSITY OF ALASKA FAIRBANKS

[Signature]

Rick A. Danielson
Contracting Officer
ACKNOWLEDGMENT; Amendment #1, RFP12P0010RD, UAF Electrical Supervisory Control and Data Acquisition System (SCADA)
This Amendment must be signed and returned with your proposal or otherwise acknowledged prior to the closing date and time listed above. If you have already submitted a proposal and need to make corrections, submit a corrected proposal prior to the closing. The closing date is Friday, December 16, 2011, 5:00 PM local time.

_____________________________  ________________________________
Offeror                                                                          Name & Title

_____________________________  ________________________________
Signature                                                                       Date
University of Alaska Fairbanks

VOLUME 2 DIVISION 1 & 16 TECHNICAL SPECIFICATIONS
DIVISION 1   GENERAL REQUIREMENTS

01010   Summary of Work
01200   Contract Meetings
01300   Submittals Procedure
01600   Shipment, Protection and Storage
01660   Testing, Training, and Commissioning
01730   Operation and Maintenance Information
01740   Guarantees

DIVISION 16   ELECTRICAL

REFERENCE ELECTRICAL DIVISION 16 SPECIFICATION – PROVIDED UPON REQUEST

16051   Common Work Results for Electrical
16055   Overcurrent Protective Device Coordination
16060   Grounding and Bonding
16073   Hangers and Supports for Electrical Systems
16074   Seismic Controls for Electrical Systems
16075   Electrical Identification
16120   Conductors and Cables
16124   Medium-Voltage Cables
16130   Raceways and Boxes
16139   Cable Trays
16140   Wiring Devices
16145   Lighting Control Devices
16265   Central Battery Inverters
16271   Medium-Voltage Pad-Mounted Transformers
16272   Medium-Voltage Plant Transformers
16273   Medium Voltage Grounding Transformers
16274   Medium Voltage Grounding Reactors
16341   Medium-Voltage Switchgear
16410   Enclosed Switches and Circuit Breakers
16415   Transfer Switches
16420   Enclosed Controllers
16442   Panelboards
16443   Motor-Control Centers
16491   Fuses
16511   Lighting
16717   Communications Horizontal Cabling

ELECTRICAL SCADA DIVISION 16 SPECIFICATION – INCLUDED IN THIS PACKAGE

16780   Input/Output Schedules
16800   Panels
16820   Arc Flash Report
16821   Short Circuit and Coordination Report
16900   Electrical SCADA
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**Note:** Contractor to complete BOM for drawings.