



**ADDENDUM
CITY OF AUSTIN, TEXAS**

Solicitation: GAL0025

Addendum No: 3

Date of Addendum: August 2, 2016

This addendum is to incorporate the following changes to the above referenced solicitation:

I. Questions:

Q16: Can you describe the interface between the EMS and the ADMS? Is there expected to be more interaction between the systems than just a single interface?

A16: The interface will use the integrated Inter-Control Center Protocol (ICCP) over internet protocol (IP), bi-directional near real-time includes analogs, controls, and statuses.

Q17: Do you expect consultant personnel to be at the vendor site for a significant portion of the project in vendor management role?

A17: Yes, we expect on-site presence, especially during the project implementation.

Q18: Different vendors require a different mix of skill sets as well as a different level of interaction during the implementation of the project. How do you advise bidders to reflect this?

A18: AE is evaluating responses largely based on relevant SCADA/EMS procurement and implementation facilitation experience (20 points) and proposed solution (25 points), so Proposers are encouraged to address contingencies as they see fit. A discussion of how past challenges were overcome would be appropriate. During project implementation (Post-Award Phase), it is expected that a significant portion of the selected Consultant's team would report on-site (in Austin) to oversee and assist the SCADA Vendor.

Q19: What level of support does Austin Energy anticipate will be needed during the Support Phase?

A19: Minimal support is anticipated to be required, unless a regulatory change impacts the system implementation.

Q20: The RFP introduction states that the current Ranger EMS is seamlessly integrated with major automated systems critical to operations; what systems are they? The scope of work includes a list of major automated systems; is this the same list?

A20: The systems described in sections 4.1.1 thru 4.1.6, 4.2.26.4, and 4.2.31 are expected to be reviewed against current best practices and findings, which may include suggestions to include new system integrations, to be presented in the gap analysis.

Q21: For Phase 3 (Post-Award Phase), the RFP states that the consultant is also responsible for the administration of the existing system. Will existing Austin Energy staff report to the Consultant Project Manager? Does this mean that the Consultant would also need to provide technical staff for the maintenance and operation of the existing system while the new system is being implemented?

A21: Consultant is responsible for sourcing and facilitating the backfill resources for managing daily operation on the existing system. The Consultant may but is not required to source these resources internally from their resource pool. No, existing AE staff will not report to the Consultant Project Manager, resources will report to the Control Engineering Manager, or otherwise designated AE Employee. Yes, the Consultant is expected to provide/include technical staff, equivalent to that of the AE resources that are being backfilled, for maintenance and operations.

Q22: Of the 127 RTUs with native protocols, are they all using DNP 3.0 or a variety of communication protocols?

A22: The RTUs are all using DNP 3.0 protocols now, however, we may need to utilize Modbus in the future as well as IEC-60870.

Q23: Will this project involve the replacement of any RTUs? Does Austin Energy wish to consider any new protocols?

A23: RTU replacement is not currently in scope. However, RTU replacement or alternate protocol suggestions can be included in the gap analysis and/or strategic technology plan deliverables.

Q24: Initially, how many dedicated AE technical staff will be working on this project outside of the AE Project Manager? How many people are involved in maintaining the current EMS and can you provide a list of these positions and titles?

A24: Through Pre-Solicitation Phase, at least six (6) AE resources will be working on the project.

The 9-person team that is responsible for maintaining the current EMS includes the following titles: SCADA EMS Analyst Senior (x2), SCADA EMS Analyst II, Power System Engineer, Power Control System Supervisor, Power System Engineer Senior (x2), Power System Principal Engineer (x2)

Q25: Section 4.2.31 notes that Sealed and Stamped Drawings are not necessary. Does Austin Energy still require a Professional Engineer certified in the State of Texas to be part of our project team?

A25: This project does not require a Professional Engineer certified in the State of Texas to be part of the project team.

Q26: Section 4.4.5 states that AE will provide the Consultant with the necessary training regarding AE internal processes/policies. Will AE also provide training and subject matter expert (SME) support on legacy and/or custom systems that the EMS will need to interface with? Section 4.4.9 mentions the provision of descriptions, however access to AE SMEs will be important and is also related to our earlier question about how many dedicated staff will initially be involved with the project.

A26: AE resources will provide subject matter expert support on existing systems. Access to AE SMEs will be facilitated but, depending on the resource, may be on a limited basis. The deliverable in 4.2.13 requires the Consultant to draft, develop, deliver, and manage the Project Schedule and 4.2.27 requires the Consultant to make recommendations for the timing and need for AE resources during the project, however in reality those will be living documents that require close coordination between AE and Consultant throughout the project.

Q27: Is the Consultant's role to be the SME developing and implementing the new SCADA/EMS or the role is rather to be a project Independent Verification and Validation (IV&V)?

A27: During the Post-Award Phase, the Consultant is expected to tightly manage (Project Manager role) as well as provide any necessary expertise (SMEs) for delivering a quality product on budget and schedule.

Q28: Page 6, Table - Please clarify the expectation of timing for the Pre-Solicitation Phase. The RFP provides an estimated duration of 8 and 9 weeks for the two associated milestone/tasks. Do you expect these to be worked in parallel or are you expecting this phase to span the 17 full weeks?

A28: Proposers may suggest an alternate schedule as long as it does not impact delivering on production cutover any later than Q1, 2020. The current target for Post-Award Phase kick off is September 2017.

Q29: Page 7, 4.2.3 - Please specify backfill roles required outsourcing to the Consultant the daily maintenance and operation of the legacy system during implementation of the new system.

A29: The 9-person team that is responsible for maintaining the current EMS includes the following titles: SCADA EMS Analyst Senior (x2), SCADA EMS Analyst II, Power System Engineer, Power Control System Supervisor, Power System Engineer Senior (x2), Power System Principal Engineer (x2)

Q30: Page 8, 4.2.21 – Please confirm a rate card approach is sufficient to cover the post implementation support services (compliance monitoring, EMS impact and changes) that are not yet clearly defined.

A30: Rate card approach is acceptable.

Q31: Page 9, 4.2.21 – Please elaborate on the scope of the technology plan deliverable.

A31: The scope of the Strategic Technology Plan deliverable is expected to address SCADA/EMS systems, any associated current best practices, and technology solutions available in the market that should be included in the new SCADA/EMS system design.

Q32: Page 9, 4.2.25 – Please elaborate on the objectives and scope of the ‘backup’ personnel plan.

A32: The Consultant is expected to evaluate current operations and to propose a plan to either source externally (which may include using ABB resources) or source from within the Consultant’s company. It should include number and type of resources, execution plan for having resources engaged at the appropriate phase of the project, and estimated cost.

Q33: Page 10, 4.2.29 - Please elaborate on the objectives, scope and timing for the Consultant self-assessment audit.

A33: The Pre-Solicitation Phase self-assessment audit is a last chance to review everything, including NERC/CIP compliance, and compare it to the current standards to ensure nothing has been missed prior to the RFP posting for the SCADA Vendor.

Q34: Page 10, 4.2.31 - Please confirm the difference between the ‘proposal’ for IT infrastructure and the Strategic Technology Plan deliverable.

A34: For purposes of this RFP, the ‘IT infrastructure’ requirements refer to any network hardware/devices and considerations that will connect to the new system. The scope of the Strategic Technology Plan deliverable is expected to address SCADA/EMS systems, any associated current best practices, and technology solutions available in the market that should be included in the new SCADA/EMS system design.

Q35: Page 11, 4.2.36 – Is this Business Case/CBA different than the Business Case identified in Deliverable 4.2.22.2?

A35: No, the Business Case referenced in 4.2.22 and 4.2.36 pertains to the same deliverable, however the document that is drafted in the Pre-Solicitation Phase (4.2.22.2) will be updated based on the RFP responses and become a final version in the Solicitation Phase.

Q36: Page 12, 4.2.54 – Please provide an estimate of number of one-line views to be converted/developed by the Consultant.

A36: Between 80 and 100. AE expects the Vendor to have a display conversion tool, but if they do not, then these will all be manual conversions.

Q37: Please confirm responsibility for the IT System Architecture and Infrastructure design for the new system.

A37: The IT System Architecture is the responsibility of AE IT; the system design responsibility is co-owned by the Consultant (Proposer) who will provide guidance/expertise and the AE project team who will determine if it meets expectations and requirements.

Q38: Please confirm responsibility for the IT infrastructure build for each of the environments required; e.g. Dev, Test, Production.

A38: AE IT is responsible for network architecture build/changes across all environments. Other hardware build can be the responsibility of AE resources or external/Vendor resources, to be determined by AE.

Q39: Please confirm the scope of responsibility for Training.

A39: Training is expected to be facilitated by Consultant (Proposer). The SCADA Vendor Agreement may include training, but the Consultant (Proposer) is responsible for identifying the most effective course structure, assisting training facilitation and scheduling, and confirming appropriate knowledge transfer to AE resources for managing the system post production cutover.

Q40: Please confirm responsibility for the systems integration interface build, implementation and test; EMS to legacy systems.

A40: The Consultant (Proposer) is expected to provide systems integration interface expertise regarding the design, and to confirm requirements are documented accurately and to the appropriate level of detail. The Consultant (Proposer) is expected to provide SCADA system implementation expertise regarding identifying all tasks, managing workload to maintain progress/schedule, identifying risks and documenting and executing on mitigation plans, as necessary. The Consultant (Proposer) is expected to provide (and assist execution of) a detailed test plan that will provide both high confidence and a very broad test scope (to the extent that some testing can be automated or computer-assisted).

Q41: Please confirm responsibility for the database and display conversions.

A41: Responsibility is co-owned; AE with Contractor expertise/assistance.

Q42: Please confirm responsibility for test planning and procedure development and execution for FAT, SAT, Integration Testing, IT Testing and Field Verification Testing/Point to Point Testing.

A42: The Consultant (Proposer) is expected to provide (and assist execution of) a detailed test plan that will provide both high confidence and a very broad test scope (to the extent that some testing can be automated or computer-assisted).

Q43: Please confirm responsibility for business process impact analysis and process re-engineering.

A43: Consultant is responsible for identifying system changes that will result in different/new processes for operational support teams. Existing process documentation will be updated by Consultant and delivered back to AE for review/approval.

Q44: Please confirm responsibility for updating OTS training scenarios for Operators.

A44: Consultant is responsible for identifying system changes that will result in different/new processes for operational support teams. Existing process documentation will be updated by Consultant and delivered back to AE for review/approval.

- Q45: In Business Organization and Stability section, bullet xi asks for a company-level organizational chart. Is the intended organizational chart one that displays divisions/personnel of the company or one that displays parent/subsidiary companies? If the latter, and if the responding company does not have any parent/subsidiaries, what should be provided?**
- A45:** AE is requiring submittal of organizational chart displaying the divisions and personnel of the Proposer's company.
- Q46: In the MBE/WBE Goals table on page 11 of the RFP there is a forward slash (/) above the Asian/Native American percent. The forward slash does not appear in the Appendix A table of MBE/WBE goals. Does the slash signify something or is it simply an error?**
- A46:** This is a typo/error.
- Q47: With regard to the 10% retention withholding in the RFP (section 0600 Paragraph C), would Austin Energy be open to having retention based on deliverables rather than the entire project. In other words, the consultant company could invoice and be paid for 10% retention when each delivery milestone was agreed upon to have been met.**
- A47:** No, the City prefers retention as stated in the Solicitation.
- Q48: It is requested that the proposal be kept valid for a period of 210 Days. We will provide names and CVs of the associates who will staff this project. Depending upon the when the Contract Award is signed, is it allowed to replace team members proposed during the RFP stage with equally experienced associates, when the project starts?**
- A48:** The expectation is that personnel identified in response would be part of the team at contract award, would remain engaged as necessary for tasks requiring his/her specific expertise/skill. However, after award and with Austin Energy's written consent, new personnel may be substituted or added to the project team through an amendment.
- Q49: We request Austin Energy to share the potential division of work between the SCADA/EMS Product Vendor and the Consultant during the Post-Award and Support Phases of the project.**
- A49:** The expectation is ~50/50 division of work between the SCADA/EMS Product Vendor and the Consultant during the Post-Award Phase and ~30/70 division of work during the Support Phase of the project.
- Q50: Do we understand this statement as follows: AE would like to outsource the support of its existing system during the course of this project. The Consulting Company is expected to facilitate the procurement of this outsourced support. Is the above understanding correct? Can the Consultant itself provide this Service to AE? If yes, where do we present the cost of this Outsourced Service?**
- A50:** Yes, the understanding is correct. Yes, Proposer can provide the support for the existing system, and can document the cost as a separate (optional) line item for AE to consider.

Q51: Please elaborate the requirement for 4.2.4 (development of an automated testing methodology to confirm successful transition). Does this refer to developing a methodology that confirms successful transition from the existing SCADA/EMS to the new product that will be chosen in the future? We understand conversion of ABB SCADA/EMS database to new database using automated script is part of scope of consultant. Please confirm if the conversion of historical database is part of scope of work as well? Please also clarify if the 'automated testing methodology' refers to testing the transition of the operational data and displays or it includes functionality testing as well.

A51: Yes, specifically a methodology that will test nearly if not all points in a semi-automated manner. The Consultant (Proposer) is expected to provide (and assist execution of) a detailed test plan that will provide both high confidence and a very broad test scope (to the extent that some testing can be automated or computer-assisted).

Q52: We understand that 4.2.5 (support for testing process with technical assistance and defect resolution) will be provided during the Post-Award phase of the project. Is that correct?

A52: Correct.

Q53: Please explain in detail the scope of work for the Consultant with regards to the Integration to other IT applications during the Post-Award Phase. If these interfaces are required to be built, then please provide details about the technology landscape of these applications. Does AE use an enterprise service bus product? If yes, please share the details about the same.

A53: AE currently uses IBM WebSphere Enterprise Service Bus, however by September of 2017 we will have TIBCO business works implemented and will be migrating integrations over to it from IBM WebSphere.

Q54: Please explain in detail the scope of work for the Consultant in the Implementation, FAT and SAT stages. Is it only to "manage" the work to be done by Product Vendor or to actually "implement and test" the selected Product?

A54: Consultant is expected to manage tasks, and may need to supplement the AE testers with some Consultant resources to expedite defect resolution and retesting. The Consultant's overarching responsibility is to identify issues as early as possible and remediate before any project impacts occur.

Q55: Is the Consultant expected to perform the vulnerability testing to support?

A55: Yes.

Q56: Please elaborate what is meant by "define and execute tasks" in this context. What specific activities does AE expect the Consultant to perform between the development of system requirements and testing? We assume that the development of the SCADA/EMS will be in scope of the Consultant.

A56: Consultant is expected to document any requirement/implementation changes, issue mitigation items, resource availability/scheduling, network build/test/retest, and regression test.

Q57: Please elaborate what is meant by "define and execute tasks" in this context. What specific activities does AE expect the Consultant to perform between testing completion and production cutover? We assume that the complete testing of the new SCADA/EMS will be in scope of the Consultant. Will the consultant be responsible for the sun-set and decommissioning of the existing SCADA/EMS?

A57: Consultant is expected to document any known/unresolved issues prior to production cutover, present list to AE management, identify task owners and resolution plan/timeline, establish production cutover task list, execute dress rehearsal for production cutover, etc.

Decommissioning of the old SCADA system will be performed by AE personnel.

Q58: Please confirm responsibility of development of one lines lies with AE. Consultant will only assist AE for designing of sample displays.

A58: Yes, the responsibility will be AE in case we have to manually do it.

Q59: Please provide details of the expectations from the Consultant for 4.2.55 (development of facility requirements to support placement of replacement SCADA/EMS).

A59: Power requirements, physical space required (server rooms), network connections required, etc.

Q60: Regarding 4.2.58 (conducting vulnerability and penetration testing to support NERC/CIP compliance), as this statement is related to the Support Phase, we would like to know the expected periodicity of such requests.

A60: Requests for testing to confirm NERC/CIP compliance will be upon request, and as often as once per year.

II. ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

APPROVED BY: 
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8/2/16
Date

ACKNOWLEDGED BY:

Name

Authorized Signature

Date

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