

## ADDENDUM NO. I

**DATE:** February 13, 2019

**TO:** All Potential Proposers

**FROM:** Penny Owens, Assistant Purchasing Agent, City of Knoxville

**SUBJECT:** Addendum No. I to the RFP for Zero Emission Electric Bus Solution

**RFPS TO BE OPENED:** May 20, 2019 at 11:00:00 a.m. (Eastern Time)

This addendum is being published to address the following items and post the pre-proposal sign-in sheet regarding the above referenced RFP. This addendum becomes a part of the contract documents and modifies the original specifications as follows:

### **ITEM #1: Revisions/Clarifications/Modifications to Scope.**

**RCM #1:** Section 2.17 Format of Proposals. TAB B – Technical Submission, item 18. “Reference paragraph 4.2.2.” changed to “Reference paragraph 4.3.2.”

**RCM #2:** Section 5.27.10.1 *Added to end of second sentence – including communications protocol*. Sentence now reads, “The bus manufacturer shall provide a detailed description of their proposed charging system and specify its compliance with the appropriate SAE standard including communications protocol.”

**RCM #3:** Section 5.27.10.3 *Paragraph is replaced as follows*. Proposals shall include a “smart charging” solution that interfaces with KAT staff through a browser based system. The smart charging system, at a minimum, shall provide the following capabilities.

- Charge scheduling based upon daily bus operating schedule.
- Capability to prioritize charge sessions manually.
- Provides load balance between chargers.
- Sequencing of multiple bus charging to minimize utility grid kW demand.
- Utility rate structuring configuration.
- Set maximum demand limits.
- Control and utilization of alternative energy sources for bus charging (utility grid, energy storage units, back-up generator, etc.)
- Real time status of chargers, faults and warnings
- Remote soft/hard charger reset
- Real time charging status of individual buses.
- Periodic Fraunhofer (or approved equal) battery state-of-health reports that highlight contributing factors to battery decomposition and suggested mitigation measures. More information may be found here - <https://www.greencarcongress.com/2018/05/20180507-viriciti.html> .

If the smart charging solution hardware requires Internet connectivity through the City network, proposals must provide details as to network requirements the City is expected to provide.

**RCM #4:** Reference Section 2.17, Tab B, item 13 and paragraph 5.52.1.2 – A real-time telematics system shall be provided for the life of the vehicle and shall be included within the cost of the bus.

**RCM #5:** Section 2.27.2.2: *The following sentence is added to this paragraph.* Should the City decide to not accept proposed infrastructure and pursue as a project separate from this procurement, all proposers shall receive the maximum possible evaluation points for this category (5 points).

**RCM #6:** Section 2.17, Tab B, item 7 – For clarification: Here is the question we want proposers to answer, “Given the route described in paragraph 5.26, what is the minimum number of buses we need and what does the daily charging schedule need to look like to provide the service level described in paragraph 5.26.3?” Also, in developing your calculations, consider an 5% decrease in bus range due to driver inefficiency.

**RCM #7:** Section 5.27.10.2 Optional ESS Charging System. Last sentence is changed to, “Underground conduit must provide for future expansion for charging of up to an **additional six buses.**”

**RCM #8:** Proposers must include installation of JX55 equipment available from S & A Systems for the purpose of transmitting bus daily mileage information to FleetWatch, KAT’s fuel and fluids management system. For more information, contact Don Srygley, President, S & A Systems, Inc., [don.srygley@fleetwatch.com](mailto:don.srygley@fleetwatch.com) or 972.722.1009, Ext. 24.

**ITEM #2:** This item responds to questions asked by potential proposers regarding the above referenced RFP.

**Question #1:** Can you provide the chart depicting the changes in route elevation in section 5.26.2.9 in Excel Format?

Response: Yes, please find the chart attached.

**Question #2:** Can you provide the Pricing Sheet in Excel format?

Response: Yes, please find the Revised Pricing Sheet attached.

**Question #3:** Where do we add pricing for leased batteries?

Response: Please see the added line under Optional Items on the attached Revised Pricing Sheet.

**Question #4:** Can we visit the site?

Response: Yes. Please contact Mike Bannon, (865) 215-7838 or [mbannon@katbus.com](mailto:mbannon@katbus.com) to schedule a visit.

**Question #5:** I would like to submit for your kind consideration that fuel cell buses are also zero emission electric buses. I therefore request you to issue an addendum to the RFP that fuel cell buses and the associated hydrogen infrastructure will also be considered by City of Knoxville. Thanks

Response: Per the specification, the City is only interested in electric buses at this time.

**END OF ADDENDUM I**