



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS'

"To Enrich Lives Through Effective and Caring Service"

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IN REPLY PLEASE

REFER TO FILE: **AS-0**

July 29, 2010

REQUEST FOR PROPOSALS – ADDENDUM 1 LACO-4E TRAFFIC SIGNAL CONTROLLER FIRMWARE DEVELOPMENT AND SUPPORT (2010-IT022)

Thank you for attending our mandatory Proposers' Conference for LACO-4E Traffic Signal Controller Firmware Development and Support (2010-IT022) on Monday, July 19, 2010. The following clarifications and revisions have been made to the Request for Proposals (RFP). (Please note that **bold** text has been added, and any text that has a ~~strikethrough~~ has been deleted from the RFP.)

RFP MODIFICATIONS

1. **Please note that the deadline to submit proposals has been extended to Wednesday, August 18, 2010, at 5:30 p.m.**
2. Exhibit A, Scope of Work, Item B, second paragraph, has been revised to read:

LACO-4E is the latest in this series of traffic signal controller firmware programs. Its initial deployment was in 2005 in conjunction with deployment of the Public Works' traffic signal control system. Since that time, in addition to working with the Public Works' traffic signal control system, the software is also being utilized for the County of Los Angeles' Metropolitan Transportation Authority's Bus Signal Priority Program. The LACO-4E has over 22,000 lines written in Motorola 6800 Assembly language, and is used to run Type 170E or 170 ATC traffic signal controllers equipped with an HC-11 Quad UART board. **Currently, Public Works utilizes the McCain 170 ATC with MC68HC11F1**

processor. Currently, LACO-4E communicates with centralized traffic signal control systems using the AB3418E communications protocol. The LACO-4E program is being used Countywide in support of numerous city traffic signal control systems.

3. Exhibit A, Scope of Work, Item C, Task 2, Existing Source Code Documentation, has been revised to read:

For this Task, the Contractor shall be responsible for completing a thorough review of the existing LACO-4E Source Code and shall revise the Source Code to ensure it is written to comply with secure coding practices and provide a thorough set of comments (both end-line and standalone) to the program and embed programmer-readable annotations to facilitate future software modifications. **The Contractor is expected to follow industry best practices. A brief explanation at the beginning of each source code module/section/function will be expected. At a minimum, on average one line of documentation embedded within the source code for every 25 lines of code will be required (minimum of 880 lines of documentation). Other types of documentation can be provided using Microsoft Word or Microsoft Visio (i.e., Written Documentation, Flow Charts, Diagrams, etc.).** The Contractor will also provide thorough documentation on the existing system functionality including flowchart(s), requirements for Enhancements, and/or diagram(s). If any Deficiencies are discovered during the documenting process, the Contractor shall recommend Repairs and/or Enhancements. If Repairs and/or Enhancements are recommended, they will be completed in accordance with Task 3. The Contractor shall provide a draft of the Documentation for Public Works' review. Public Works will provide comments and feedback, which the Contractor shall incorporate in a final draft.

4. Exhibit G, LACO-4E, Users Manual is deleted in its entirety and replaced with Exhibit G.1, LACO-4E, Users Manual (Revised July 2010). Exhibit G.1 may be accessed at <http://dpw.lacounty.gov/asd/contracts>.

QUESTIONS

1. **Question:** Is the In-Circuit Emulator required at time of proposal submission?

Response: Minimum Requirements require that the Proposer have access to an In-Circuit Emulator at time of proposal submission. Please refer to Part 1 of the RFP, Section 1.C, Item 2.

The Proposer should indicate how they meet this minimum requirement at time of proposal submission using Form PW-18, Proposer's Compliance with the Minimum Requirements of the RFP.

2. **Question:** Can we have access to the Type 170 Controller County Specifications?

Response: A copy of the Los Angeles County Model 170 Traffic Signal Control Equipment Specifications may be obtained by accessing the following link:
<http://dpw.lacounty.gov/asd/contracts>

3. **Question:** What is the brand name of the controllers?

Response: Currently, Public Works uses the McCain 170ATC with MCHC11F1 processor but is willing to use any 170 ATC with MC68HC11F1 controller which meets the specifications referenced in Question No. 2 above. RFP has been revised to reflect this information.

4. **Question:** Are there specific format or requirements for source code documentation discussed in Task 2?

Response: The Contractor is expected to follow industry best practices. A brief explanation at the beginning of each source code module/section/function will be expected. At a minimum, on average one line of documentation embedded within the source code for every 25 lines of code will be required (minimum of 880 lines of documentation). Other types of documentation can be provided using Microsoft Word or Microsoft Visio (i.e., Written Documentation, Flow Charts, Diagrams, etc.). The purpose as stated in the Scope of Work in Item C, Task 2, Existing Source Code Documentation, is to "provide a thorough set of comments ... and/or readable annotations to facilitate future software modifications." RFP has been revised to reflect this information.

5. **Question:** There's no discussion about Integrated Test environment or Bench testing, is this required?

Response: No, they are not required. Please refer to Exhibit A, Scope of Work, Task 3, Troubleshooting, Repairs, and Enhancements, page A.7, Testing, for a detailed description of the testing procedure.

6. **Question:** Liquidated damages are assessed to the Contractor if repair work is not completed within the specified time? What if the delay is caused by Public Works?

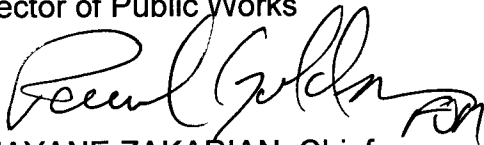
Response: Liquidated damages will not be assessed to the Contractor if delays to the schedule occur due to Public Works' delay. Please be advised that the schedule will be agreed to by the Contractor and Contract Manager and that deviations from the schedule may occur with approval from the Contract Manager. No liquidated damages will be assessed if the delay or deviation has been approved by the Contract Manager.

The deadline to submit proposals has been extended to Wednesday, August 18, 2010, at 5:30 p.m.

If you have questions concerning the above information, please contact Ms. Lorena Calderon at (626) 458-4169, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

A handwritten signature in black ink, appearing to read 'Ghayane Zakarian', with a stylized flourish at the end.

GHAYANE ZAKARIAN, Chief
Administrative Services Division

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Enc.