



**Addendum #18 to
Request for Proposals (RFP)
STATEWIDE PUBLIC SAFETY WIRELESS COMMUNICATIONS SYSTEM
PROJECT NO. 060B9800036**

October 15, 2009

Ladies/Gentlemen:

This Amendment is being issued to change, add or delete certain information contained in the above named RFP. Specific parts of the RFP have been amended and the RFP changes are detailed below. The changes are marked with text underlined if it is new and crossed through if it has been deleted. This marking will help you more easily identify what has changed.

1. In Section 3.2.8.6 System Level Latency and Delays change the wording from:

Total access delay time plus latency time between two subscriber radios in any two or more cells of the system must be less than 700 milliseconds from Push-To-Talk (PTT) to reception and passage of voice information.

to:

Total access delay time plus latency time between two subscriber radios in any two or more cells of the system ~~must~~ should be less than 700 milliseconds from Push-To-Talk (PTT) to reception and passage of voice information.

2. In Section 3.2.8.7 Voice Latency change the wording from:

Delay of voice information (speech delay or latency) must be less than 200 milliseconds total when communicating directly from unit to unit. This includes vocoder delay, digital encoding, and digital encryption time. During the delay period, voice information shall be buffered.

to:

Delay of voice information (speech delay or latency) must be less than ~~200~~ 250 milliseconds total when communicating directly from unit to unit. This includes vocoder delay, digital encoding, and digital encryption time. During the delay period, voice information shall be buffered.

3. In Section 3.2.8.8 Intra-Cell Latency and Delays change the wording from:

4.

Total access delay time plus latency time between two subscriber radios in the same cell of the system must be less than 500 milliseconds from PTT to reception and passage of voice information.

to:

Total access delay time plus latency time between two subscriber radios in the same cell of the system ~~must~~ should be less than 500 milliseconds from PTT to reception and passage of voice information.

5. In Section 3.2.9.8 Unit ID and Alias Display change the wording from:

Subscriber units must be offered which support the display of unique unit identification (ID) and text alias conversion with a minimum of 16 alphanumeric characters.

to:

Subscriber units must be offered which support the display of unique unit identification (ID) and text alias conversion with a minimum of ~~16~~ 12 alphanumeric characters per line.

6. In Section 3.2.10.7 Over-The-Air Re-keying change the wording from:

The system must provide the ability to use Over-The-Air Re-keying (OTAR) for the management of encryption keys, and to allow their change without need to recall or physically connect to subscriber radios. The system also must provide the use of a key management facility to store keys and track re-keying progress. The system must provide the ability to partition the management of keys, and to allow distributed "self-management" by individual agencies, if desired. The system also must provide the capability to include two keys, one for the network infrastructure (Network Operations Center), and one for the agency subscriber equipment (Agency Operations Center).

to:

The system must provide the ability to use Over-The-Air Re-keying (OTAR) for the management of encryption keys, and to allow their change without need to recall or physically connect up to 10,000 subscriber radios. The system also must provide the use of a key management facility to store keys and track re-keying progress. The system must provide the ability to partition the management of keys, and to allow distributed "self-management" by individual agencies, if desired. The system also must provide the capability to include two keys, one for the network infrastructure (Network Operations Center), and one for the agency subscriber equipment (Agency Operations Center).

7. In Section 3.2.10.8.3 Information Security Item #1, change the wording from:

1. The system network shall be capable of operating with encryption that has been validated to conform with Federal Information Processing Standard (FIPS): 140-2, (140-3) Security Requirements for Cryptographic Modules; 46-2, Data Encryption Standard (DES); 81, DES Modes of Operation, Data Encryption Standard (DES) using Output Feedback (OFB) mode; and 197 AES Advanced Encryption Standard; or later NIST approved standards.

to:

1. The system network shall be capable of operating with encryption that has been validated to conform with Federal Information Processing Standard (FIPS): 140-2, (~~140-3~~) Security Requirements for Cryptographic Modules; 46-2, Data Encryption Standard (DES); 81, DES Modes of Operation, Data Encryption Standard (DES) using Output Feedback (OFB) mode; and 197 AES Advanced Encryption Standard; or later NIST approved standards. Offers shall meet FIPS 140-3 when adopted by the federal government.

8. In Section 3.2.11.5 Computer Aided Dispatch/Record Management System change the wording from:
The system must provide two way communication supporting subscriber reporting and messaging. This includes providing an open standard data interface to equipment and applications provided by third party manufacturers. The interface shall provide an automated exchange of digital information between the system and the external Computer Aided Dispatch/ Record Management System in accordance with standards published by APCO and the NENA.

to:

The system must provide two way communication supporting subscriber reporting and messaging. This includes providing an open standard data interface to equipment and applications provided by third party manufacturers. The interface shall provide an automated exchange of digital information between the system and the external Computer Aided Dispatch/ Record Management System ~~in accordance with standards published by APCO and the NENA.~~

9. In Section 3.2.12.7 Computer Aided Dispatch and Record Management Systems Interface change the wording from:

Each console shall provide a standard interface allowing the automated exchange of digital information related to the radio system unit operations and alarms with Computer Aided Dispatch and Records Management Systems. The digital information shall be accomplished in the accordance with the standards published by the National Emergency Number Association (NENA) and the Association of Public-Safety Communications Officials (APCO) International.

to:

Each console shall provide a standard interface allowing the automated exchange of digital information related to the radio system unit operations and alarms with Computer Aided Dispatch and Records Management Systems. ~~The digital information shall be accomplished in the accordance with the standards published by the National Emergency Number Association (NENA) and the Association of Public Safety Communications Officials (APCO) International.~~

10. In Section 3.3.7 Subscriber Equipment Requirements change the wording from:

The Contractor must provide three “tiers” of mobile and portable radio units from at least three different manufacturers as required for occasional, administrative, public safety, or command level users. Tiers differentiate radio unit models by capabilities, durability, feature sets, significant price points, etc. as identified in the subsections below. Offerors are required to provide an end-fed ½ wave or ¼ wave antenna for all portable radios. This does not alter the requirement to provide AVL capability through the portable radio.

to:

The Contractor must provide three “tiers” of mobile and portable radio units ~~from at least three different manufacturers as required~~ for occasional, administrative, public safety, or command level users. Tiers differentiate radio unit models by capabilities, durability, feature sets, significant price points, etc. as identified in the subsections below. Offerors are required to provide an end-fed ½ wave or ¼ wave antenna for all portable radios. This does not alter the requirement to provide AVL capability through the portable radio.

11. In Section 3.3.7.10 Mobile Radios change the wording from:

All mobile radios shall be supplied with all necessary mounting hardware for a complete installation. All radio controls and necessary cabling shall be supplied, including antenna.

Front-mounted radios must be self-contained within a single housing.

A trunk-mounted radio with a remote control head shall be available as an option.

A palm-type microphone shall be provided with the radio. A separate external speaker capable of producing a minimum of five watts shall be provided as standard. An optional amplified speaker producing a minimum of 15 watts shall also be available. Both speaker options must be contained in housing with sufficient durability to prevent damage to the speaker.

Mobile radios shall be capable of the following additional features, including but not limited to:

to:

All mobile radios shall be supplied with all necessary mounting hardware for a complete installation. All radio controls and necessary cabling shall be supplied, including antenna.

Front-mounted radios must be self-contained within a single housing.

A trunk-mounted radio with a remote control head shall be available as an option.

A palm-type microphone shall be provided with the radio. A separate external speaker capable of producing a minimum of five watts shall be provided as standard. An optional amplified speaker producing a minimum of 15 watts ~~shall~~ should also be available. Both speaker options must be contained in housing with sufficient durability to prevent damage to the speaker.

Mobile radios shall be capable of the following additional features, including but not limited to:

12. In Section 3.3.7.13 Portable Radios item #20 d) change the wording from:

- d) Minimum usage time of ten hours with a 10% transmit, 25% receive and 65% standby duty cycle when fully charged.

to:

- d) When a battery is fully charged, a Minimum usage time of ten hours with a ten hour duty cycle should be provided based upon 10% transmit, 25% receive and 65% standby duty cycle ~~when fully charged.~~

13. In Section 3.4.4.1 General Site Work Specifications item #9 change the wording from:

9. Supply and install a 12ft. x 38ft. or 12ft x 28ft equipment shelter foundation as required to support the required building. The foundation shall have an integrated continuous stoop for the shelter doors.

to:

9. Supply and install a 12ft. x 38ft. ~~or~~ 12ft x 28ft, or 10 ft x 12 ft equipment shelter foundation as required to support the required building. The foundation shall have an integrated continuous stoop for the shelter doors.

13. In Section 3.5.4.4 Certification of Equipment Support change the wording from:

The Contractor shall obtain from the manufacturer a warrant that replacement or compatible parts for all system components, not including subscriber equipment, will be available for at least 10 years after the region acceptance date.

to:

The Contractor ~~shall~~ should obtain from the manufacturer of fixed land mobile radio network components a warrant that replacement or compatible parts for all system components or upgraded components providing the same or better functionality, not including subscriber equipment, will be available for at least 10 years after the region acceptance date. In the event that the Contractor is unable to obtain such warrant, the Contractor shall certify that it will use its best commercial efforts to provide an equivalent functional component that maintains operation of the fixed land mobile radio network.

14. In Section 3.5.6.2 APCO Project 25 Operational Performance Test change the wording from:

The Contractor shall perform operational performance testing of APCO Project 25 supported feature sets that the system is capable of operating with subscriber units manufactured by at least three different manufacturers.

to:

Section 3.5.6.2 APCO Project 25 ~~Operational Performance Test~~ Compliance Assessment Program

The Contractor shall ~~perform operational performance testing of APCO Project 25 supported feature sets that the system is capable of operating with subscriber units manufactured by at least three different manufacturers~~ certify that the manufacturer of the proposed fixed network radio components is an active participant in the P25 Compliance Assessment Program (“P25 CAP”) as developed by the United States Department of Homeland Security and further that the proposed infrastructure has been tested and found to meet all P25 CAP requirements. The manufacturer shall identify all subscriber mobile and portable radios, including all models that have met the requirements of the P25 Compliance Assessment Program. The State reserves the right to test any subscriber radio from any manufacturer that has completed the P25 CAP to ensure that the radio meets the requirements in Appendix 16.

15. In Section 4.4.5.6 APCO Project 25 Operation change the wording from:

The Offeror shall certify and include a list of supported feature sets that the system is capable of operating with subscriber units manufactured by at least three different manufacturers. The proposal shall include a field test plan to demonstrate to the State’s RFP evaluation committee a live test of features supported. The test shall be conducted at a State facility yet to be determined.

{In Section 3.5.6.2 APCO Project 25 Operational Performance Test}

to:

The Offeror shall certify and include a list of supported feature sets that the system is capable of operating with the proposed mobile and portable subscriber units ~~manufactured by at least three different manufacturers~~. The proposal shall include a field test plan to demonstrate to the State’s RFP evaluation committee a live test of features supported. The test shall be conducted at a State facility yet to be determined.

The manufacturer shall identify all subscriber mobile and portable radios, including all models that have met the requirements of the P25 Compliance Assessment Program. The State reserves the right to test any subscriber radio from any manufacturer that has completed the P25 CAP to ensure that the radio meets the requirements in Appendix 16.

{In Section 3.5.6.2 APCO Project 25 Operational Performance Test}

16 Price Sheet F5 Revise price sheet F5 (Subscriber Equipment Pricing) in Attachment F – Price Sheets. Replace the original F5 with the revised F5. The revised price sheet F5 is attached to this Addendum.

Date Issued: October 15, 2009

Ed Bannat
Procurement Officer