Addendum #17 to
Request for Proposals (RFP)
STATEWIDE PUBLIC SAFETY WIRELESS COMMUNICATIONS SYSTEM
PROJECT NO. 060B9800036

October 9, 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. Section 3.2.10.1 End-to-End Encryption Delete the following words from the end of the Section:

> Communications carried by the system may contain sensitive information regarding critical infrastructure and vulnerabilities, protected patient information, ongoing criminal investigations, protective services, surveillance, or similar activities. As such, the system must ensure that encrypted communications not be decoded at intermediate points within the infrastructure. Notwithstanding the preceding provisions, the Offeror is not required to provide an encrypted control channel~~when proposing a simulcast radio system~~.

2. Section 3.2.10.3 Subscriber Unit Authentication

Please revise this section as follows:

The network management system must authenticate all users for validation of services and access to the radio system by use of Link Layer Authentication as specified in the P25 suite of documents. It must be possible to immediately disable/inhibit any individual radio from the network ~~management system~~ so that it may not access the system, initiate a call, or receive traffic. When interrogated by an authorized system manager, any radio so disabled/inhibited shall continue to provide the radio check functionality and broadcast its position data at intervals and shall be capable of being polled without alerting the subscriber operator. A radio so disabled/inhibited must be ~~physically~~ reset by an authorized system manager.

3. In Section 3.2.11.4.1 Automatic Vehicle Location (AVL) Requirements Change #3 to read:

> 3. The AVL system ~~shall~~ should have the capability to track and locate individual units to within a five-meter radius.

4. In Section 3.2.11.4.1 Automatic Vehicle Location (AVL) Requirements Add #8 to read:

8. The offeror shall identify the data format of the AVL data and what mapping and CAD products to which the data can be seamlessly exported.

5. In Section 3.2.13.1 System Status and Alarm Monitoring Change #2 to read:

2. The operator interface shall have multiple levels of access and be web based allowing both local and remote operation through a virtual private network.

6. In Section 3.4.3 Equipment Shelters Add item #5 to read:

The system design shall include the equipment space, electrical and HVAC required for each location used. However, the design shall assume that the required equipment space is present at each available tower location identified in Appendix 10, *Available Tower and Shelter Locations*.
For locations requiring the development of an equipment shelter the following sections provide the requirements of shelters with shelter foundation to be supplied and installed. Shelters shall be available in the following sizes and configurations as illustrated in Appendix 12, *Equipment Shelter Layout*:

1. 12' X 38' X 10' (height is inside dimension) with 75 kW Liquid Propane generator (two rooms), drawing number DBM-10-22-2002 REV. A.1.
2. 12' X 38' X 10' (height is inside dimension) no generator (one room), drawing number DBM-08-01-2002 REV. A.1.
3. 12' X 28' X 10' (height is inside dimension) no generator (one room), drawing number DBM-08-07-2001 REV. A.1.
4. 10' X 12' X 10' (height is inside dimension) no generator (one room), drawing number DBM-08-07-2001 REV. A.1.
5. 10' X 12' X 10' (height is inside dimension) same shelter as #4 above only for the installation of a 75 KW Liquid Propane generator, drawing number DBM-08-07-2001 REV. A.1.

7. In Section 3.3.6.1 General Add the following so the sentence reads:

~~A~~ One digital multi-channel recorder shall be incorporated into the Dispatch Point for the purposes of logging all:

8. In Section 3.3.7.10 Mobile Radios In the 5th paragraph, delete #s 6, 7 and 12. The 5th paragraph now reads:

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

1. Volume control,
2. Talk Group/Channel Selector,

3. Ability to monitor channel,
4. Push-to-Talk (PTT) switch,
5. Industry standard data interface,
~~6. Individual call,~~
~~7. Telephone interconnect call,~~
8. Alphanumeric talk group ID display,
9. Alphanumeric caller ID display,
10. Caller alias display,
11. Capability to receive and display short data messages,
12. ~~APCO Project 25 Phase 2 compliant DES or AES voice encryption,~~ and
13. 3 dBd gain antenna with base and low loss transmission line.

9. In Section 3.3.7.13 Portable Radios In the 4th paragraph, delete #s 12 and 13. The 4th paragraph now reads:

All portable radios shall be furnished or equipped with the following:

1. Volume Control,
2. Talk-Group/Channel Selector,
3. Push-to-talk,
4. Remote microphone/speaker connector,
5. Ability to monitor channel,
6. Over-the-Air Programming (OTAP),
7. An alert shall be provided to indicate a low battery condition,
8. A leather swivel type carrying case that attaches to a belt,
9. An emergency button,
10. Operation with a remote speaker/microphone, such as a hand-held speaker/microphone that may also attach to a lapel,
11. Industry-standard data interface port,
~~12. Individual call,~~
~~13. Telephone interconnect call,~~
14. Alphanumeric talk group ID display,
15. Alphanumeric caller ID display,
16. Caller alias display,
17. Capability to receive and display short data messages,

18. Single-unit battery charger,
19. Numeric keypad for individual calls, and
20. Rechargeable Batteries:
    a) Batteries shall be NiMH (nickel-metal hydride) or Li-ion (lithium ion).
    b) Within the manufacturer's product lines, batteries shall be interchangeable between all tiers.
    c) Within the manufacturer's product lines, battery chargers shall be interchangeable between all tiers.
    d) Minimum usage time of ten hours with a 10% transmit, 25% receive and 65% standby duty cycle when fully charged.
    e) Total useful life of at least 2 years before needing to be replaced.
    f) Maximum of 3 hours to fully charge a depleted battery.

10. In Section 3.3.7.10.1.3 make the following changes:

3.3.7.10.1.3 Tier III Mobile Radio features shall include:

1. Tier II Mobile Radio features,
2. At least 512 talk-groups,
3. Alphanumeric keypad that supports Telephone Interconnect and DTMF. The keypad and function keys shall ~~be a typical 16-button configuration to~~ achieve the full DTMF capability,
4. Receipt of paging calls, and
5. Private unit-to-unit calling.

11. In Section 3.3.7.13.1.3 make the following changes:

3.3.7.13.1.3 Tier III Portable Radio features shall include:

1. Tier II Portable Radio features,
2. At least 512 talk-groups,
3. Alphanumeric keypad that supports Telephone Interconnect and DTMF. The keypad and function keys shall ~~be a typical 16-button configuration to~~ achieve the full DTMF capability
4. Capable of being integrated with a full face breathing apparatus, either positive or negative pressure, for confined space or other hazardous environments, as defined in 29CFR1910.134.

12. Please update Attachment F2 in the Price sheets to add the following Site Description:

Description	Unit of Measure	Unit Price x	Quantity =	Total Price
Access road per Section 3.4.4.1 #6	Per Foot		4000	

13. In Section 3.4.4.1 Change item #6. as follows:

Furnish and install stabilized construction entrance and crusher/run access road to the tower site in accordance with the most recent Maryland State Highway Administration ~~Bluebook~~ standards.

14. In Section 3.1.4 Change second paragraph of 3.1.4 from:

The system will use a common infrastructure and operate within the 700/800 MHz band of frequencies allocated to and licensed by the State of Maryland or any of its public safety partners. It shall provide a minimum of 97% reliability across 95% of the defined coverage areas which includes Maryland's land area, all jurisdictions and waterways. The only exception to the 97% reliability and 95% coverage standards would be…

to:

The system will use a common infrastructure and operate within the 700/800 MHz band of frequencies allocated to and licensed by the State of Maryland or any of its public safety partners. ~~It shall provide a minimum of 97% reliability across 95% of the defined coverage areas which includes Maryland's land area, all jurisdictions and waterways.~~ It shall provide a minimum of 95% bounded area percent coverage with a tile reliability of 97% as defined in TSB 88 where the bounded area is the service area. The service area is defined in Appendix 2 and includes Maryland's land area, all jurisdictions and waterways. ~~The only exception to the 97% reliability and 95% coverage standards~~ The only exception to the 97% tile reliability and 95% bounded area percent coverage requirements would be…

15. In Section 3.2.2. change the first two sentences from:

The system shall provide the ability to place and receive radio transmissions from any point within the coverage area as defined in Appendix 2, *State Regions and Coverage Area Definition*. It shall provide a minimum of 97% reliability across 95% of the defined implementation regions which includes Maryland's land area, all sub-jurisdictions and waterways.

to:

The system shall provide the ability to place and receive radio transmissions from any point within the ~~coverage~~ service area as defined in Appendix 2, *State Regions and Coverage Area Definition*. ~~It shall provide a minimum of 97% reliability across 95% of the defined implementation regions which includes Maryland's land area, all sub-jurisdictions and waterways.~~ It shall provide a minimum of 95% bounded area percent coverage with a tile reliability of 97% as defined in TSB 88 where the bounded area is the service area.

16. Change Appendix 16, Section 8.5, under **Design Criteria**, 3rd criteria, change from:

CPC Area Reliability	95% [Contour reliability of 95%]

to:

~~CPC Area Reliability~~	~~95% [Contour reliability of 95%]~~
Bounded Area Percent Coverage	95% (where the bounded area is the service area)

17. 3.6.3.1 Software Updates Please change the paragraph to read as follows:

The Contractor shall provide software/firmware updates prior to final statewide system acceptance, during the warranty period and any exercised maintenance period(s). The cost of software/firmware updates, including labor, shall be included in the Offeror's proposal. The Contractor shall notify the State when any software updates are released following system acceptance for any licensed software associated with the system. Software updates shall include the following, at a minimum:

1. Enhancements and/or corrections to existing features for all supplied system components,
2. New features implemented in existing system components, and
3. Software for product migrations, where a new generation of software is developed for a designated system component, rather than an update of the older generation of software.

18. 3.2.11.1 Data Types Please delete Item #5. The Section now reads:

The system shall be capable of supporting applications that transmit and receive various forms of data content, including but not limited to:

1. Short Messaging (e.g. up to 254 bytes),
2. Text and American Standard Code for Information Interchange (ASCII) data,
3. Image and Graphics (e.g. JPEG files),
4. Binary files (e.g. MP-3 files), and
5. ~~Video (e.g. from streaming to full motion).~~

Date Issued: October 9, 2009

Ed Bannat
Procurement Officer