



**Addendum #15 to
Request for Proposals (RFP)
STATEWIDE PUBLIC SAFETY WIRELESS COMMUNICATIONS SYSTEM
PROJECT NO. 060B9800036**

September 02, 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.

1. Vendor Questions & Answer Set #4 to the RFP, Q&A #121. The following question was asked and this question was answered by the State as stated below:

121. Section 3.2.14.5: Since RFP Section 3.2.14.5 specifies compliance with appropriate 700 MHz FCC Rules and Regulations, interstate spectrum and inter-regional plans and agreements, and since RFP Appendix 14 provides a very detailed and comprehensive analysis of the 700 MHz frequency planning and coordination issues and their impact on coverage designs for the State of Maryland, including compliance with 40 dBu contour requirements at the State border:

-Has the State extended their service area to include the areas 3-mile to 10-miles beyond the State jurisdictional boundary into adjacent states, the District of Columbia and waterways?

-Does 40 dBu compliance now apply to this extended 3-mile to 10-mile service area boundary instead of the State's jurisdictional boundary?

Answer: State border 40 dBu requirements exist only for the "State" channels and do not apply to General Pool channels. Please see Appendix 2 and section 3.2.14.2.

The interstate propagation requirements of the Federal Communications Commission are found in DA01-406 which indicates that the signal of a State of Maryland transmitter operating on a "state" frequency as defined by Subpart 531(b)(5) may not exceed a 40 dBu contour into an adjacent state. For the purposes of the Commission's rules, the District of Columbia is treated like a state with regard to the 40 dBu compliance. With respect to any frequencies used as found in Subpart 531(b)(6), the relevant Plans of the respective Regional Planning Committees would apply. To date, only the Plan of Region 20 has been approved by the Commission. Nevertheless, there is common agreement between Region 20 and Regions 28, 36, 42, and 44 to use the Computer Assisted Pre-coordination Resource and Database System (CAPRAD) to specify frequencies that can be used. Typically, a 40 dBu contour would delimit the propagation of a signal to no more than 3-5 miles from the user's service boundary, which may be different from a political border. This flexibility is granted because in certain cases, mutual aid and other emergency service pacts may permit the extension of a signal beyond the geographic borders of a county or city. It is the expectation of the State that issues related to adherence to propagation contour requirements will be resolved during the system design process and that compliance will often be achieved through the selection of antenna models or other processes that do not materially affect system costs beyond those reasonably expected.

The State clarifies its response to question #121 in regard to the last sentence above: **"It is the expectation of the State that issues related to adherence to propagation contour requirements will**

be resolved during the system design process and that compliance will often be achieved through the selection of antenna models or other processes that do not materially affect system costs beyond those reasonably expected.”

Add the following sentence: **“The State does not expect more than minimal changes to the system design, therefore, the State does not expect these changes to result in an increase in cost change order.”**

2. Vendor Questions & Answer Set #2 to the RFP, Q&A #82. The following question was asked and this question was answered by the State as stated below:

82. Our company is currently under contract with the Maryland Transportation Authority on a task order contract. In this contract, we were tasked to design a leaky co-axial cable antenna system for the Baltimore Harbor and Fort McHenry Tunnels. This antenna system provides within each tunnel tube radio coverage for multiple frequencies including the rebroadcast FM, and 450 MHz and 700 MHz LMR. It is our understanding that MdTA is going to proceed with the construction of this project independent of the DoIT project and will make this antenna system available to the successful bidder for the 700 MHz project. This understanding is conflicts with Appendix 9.

We recommend that MdTA provide this information on the tunnel antenna system, through an addendum, to all bidders given that the Fort McHenry and Baltimore Harbor Tunnels are listed as critical buildings and Appendix 9 indicates that the design and installation of an antenna system for the MdTA tunnels is part of the project.

Answer: The 700MHz contractor may use the cable that will be installed in all six tunnels legs. The cable will be shared with the FM broadcast band. The 700MHz Contractor shall evaluate, design, supply and install all necessary equipment including any intermediate amplifiers, band pass filters and power in the tunnels and any other above ground equipment necessary to make the 700 MHz system fully operable. All other sections of the RFP are still required. The MdTA will incur no additional expense for making this resource available.

The state adds this additional information to its above answer:

The above reference cable system will be available for installation of the 700/800 MHz system on or about July 2011. The cable system will be equipped to rebroadcast FM. The contractor shall design and install his system so as to cause no degradation to the rebroadcast FM feature. All other applicable sections of the RFP apply.

3. Section 3.3.5.2 Physical and Environmental Add the following sentence to the second paragraph Emergency conditioned power means a State-provided Uninterruptable Power Supply (“UPS”) that shall be located at each console position and rated for thirty (30) minutes of operation. The UPS shall operate until an emergency power generator provides power.

The Section now reads:

Dispatch console equipment shall be powered from 115 VAC 60-Hz service. The design shall specify required current and BTU requirements.

The State shall provide emergency conditioned power at each console location. Emergency conditioned power means a State-provided Uninterruptable Power Supply (“UPS”) that shall be located at each console position and rated for thirty (30) minutes of operation. The UPS shall operate until an emergency power generator provides power.

4. Section 3.4.2.1 Existing Tower Modification - 1st paragraph,



Change the paragraph from:

The Contractor shall perform a structural analysis for development of each existing tower and identify any modifications required for the tower to support the required antenna load. Existing tower analysis shall be using EIA-222-F standards for the location use base wind speeds along with ½” of radial ice.

To:

The Contractor shall perform a structural analysis for development of each existing tower as specified in RFP Section 3.4.2.2, and identify any modifications required for the tower to support the required antenna load. Existing tower analysis shall be using EIA-222-F standards for the location use ~~base~~ basic wind speeds ~~along~~ concurrent with ½” of radial ice.

5. Add Section 3.4.2.2

The new Section 3.4.2.2 will read:

3.4.2.2 Structural Analysis of Existing Towers

Offerors shall presume that any communications tower owned by the State and constructed after 1999 shall be deemed capable of supporting added land mobile radio and microwave antennae. A final determination of the availability of a tower to support additional antennae shall be made by the State. Notwithstanding this presumption, Offerors may be issued a Task Order by the State to perform a structural analysis as provided in RFP Section 3.4.2.1 and defined within this RFP as well as relevant Addenda to assess the capability of a tower to support the installation of proposed antennae. The State may also elect to contract independently through a separate RFP with an engineering firm to perform structural analyses on the towers owned by the State, its political sub-divisions, or other entities.

6. Section 3.4.3.1 Equipment Shelter Specifications Item #22

Add the following sentences at the end of the item:

The Offeror may pass through to the State the real and actual costs from the local electricity utility provider of bringing electricity to the site, as evidenced by the invoices and other submissions of the electricity utility provider, without the addition of any administrative overhead or profit. Any such charges incurred by the Contractor shall be with the prior approval by the State's Contract Manager and, as stated above, billed on a pass-through basis.

For proposed microcells and for sites not within 1000 feet of commercial power, the Offeror shall provide a power source that is independent of the commercial power grid, (e.g., a combination of solar/wind power) that is sufficient to support the site load as defined in the RFP and the Offeror's technical proposal.

The new Section 3.4.3.1 Item #22 will read:



22. Supply and install per local utility standard, of electrical service, conduit and wire, from the power company demarcation to a single phase step-down transformer, supplied by the utility company, ~ 50KVA from HV primary to 120/240V and from the transformer to a contractor supplied backboard and from the backboard to the fused disconnect on the rear of the communications shelter and from fused disconnect located on the back of the shelter into the equipment shelter's 400-amp load center. It is the contractor's responsibility to coordinate with local utility service provider and ensure that contractor provided electrical equipment, material, and construction installation shall conform and adhere to local power company standards. The contractor may be required to purchase materials from the utility company. Exact cable/conduit distance to be verified during site inspection. The Offeror may pass through to the State the real and actual costs from the local electricity utility provider of bringing electricity to the site, as evidenced by the invoices and other submissions of the electricity utility provider, without the addition of any administrative overhead or profit. Any such charges incurred by the Contractor shall be with the prior approval by the State's Contract Manager and, as stated above, billed on a pass-through basis.

For proposed microcells and for sites not within 1,000 feet of commercial power, the Offeror shall provide an option for a power source that is independent of the commercial power grid or a grid-tie system, (e.g., a combination of solar/wind power) that is sufficient to support the site load as defined in the RFP and the Offeror's technical proposal.

7. Section 3.3.7.11 Optional High Speed Mobile Data

Based upon recent actions by the FCC regarding 700 MHz broadband spectrum, the State would consider a high speed mobile data system design based upon Long Term Evolution (LTE) technology.

Please consider submitting an LTE mobile data system design as part of your technical proposal.

8. Section 3.2.11.4.1 Automatic Vehicle Location (AVL) Requirements

After item #6, add item #7 to this sub-section as follows:

7. The State does not desire location-based polling. The polling should be time based with a maximum interval of two (2) minutes. The Grade of Service calculation must be for 60 concurrent users per site.

9. Section 3.3.8.2.1 Licensed Microwave Communications Equipment

After item #3, add item #4 as follows:

4. The minimum capacity radio to be installed for each microwave hop is 3xDS3.

10. Section 3.4.3.1 #19 –

Add 4th paragraph to read:



S T A T E O F M A R Y L A N D

DEPARTMENT OF INFORMATION TECHNOLOGY

MARTIN O'MALLEY
Governor

ANTHONY BROWN
Lieutenant Governor

ELLIOT SCHLANGER
Secretary

For evaluation purposes, all offerors are to include the NetGuardian system in their proposal for each site. The State currently has approximately 25 NetGuardian sites being monitored. The State intends to implement further NetGuardian monitoring systems as time and finances permit. Offerors should assume that 25 NetGuardian terminals currently exist.

Date Issued: September 02, 2009

Ed Bannat
Procurement Officer