

**COUNTY OF MILWAUKEE
INTEROFFICE COMMUNICATION**

Date: July 3, 2014

To: Supervisor Willie Johnson, Jr., Co-Chair, Finance, Personnel and Audit Cte
Supervisor David Cullen, Co-Chair, Finance, Personnel and Audit Cte
Supervisor Theo Lipscomb, Sr., Chair, Judiciary, Safety, and General Services Cte

From: Don Tyler, Director of Administrative Services
Laurie Panella, Deputy Information Officer, IMSD

Subject: Informational Report: 800 MHz Public Safety Radio System Project Update

BACKGROUND

As part of the approved 2010 Capital Budget, the County Board of Supervisors and the County Executive both approved capital project WO614-Build-Out Ten Sites to Digital. The project scope is comprehensive and includes the following deliverables from the contracted radio provider:

- Purchase and implementation of a simulcast, digital 800 MHz trunked radio system
- Installation of a microwave backhaul network
- Purchase and installation of dispatch consoles for the Milwaukee County Office of the Sheriff (MCSO), Emergency Medical Services Division (EMS) and Milwaukee County Transit Department (Transit)
- Radio tower site analysis, site development and remediation
- Mobile and portable subscriber radios for MCSO, EMS, Milwaukee County House of Correction, the Milwaukee County District Attorney's Office, Transit, Milwaukee County Department of Transportation and Public Works, Milwaukee County Zoo, General Mitchel International Airport, Milwaukee County Parks and the Department of Administrative Services – Facilities Division
- Training
- Ongoing licensing and maintenance services (Operational Costs)

The Department of Administrative Services, Information Management Services Division (IMSD), in conjunction with Waukesha County, Risk Management, the office of Community Development Business Partners, and Corporation Counsel, negotiated a contract with Motorola to purchase a public safety radio system as well as the purchase of on-going annual support and maintenance. The contract with Motorola is for a not to exceed cost of \$17,751,797 and includes system build, licensing and maintenance costs

(operational cost) for a period of ten (10) years beyond warranty expiration.

Based on this work and the final negotiations, the Milwaukee County Board of Supervisors in December, 2013 authorized the Department of Administrative Services to enter into a contract with Motorola Solutions, Inc. to purchase and install a public safety radio system as well as provide for on-going annual license and maintenance services.

UPDATE

IMSD and the Department of Administrative Services (DAS), working closely with vendors, Milwaukee County municipalities and other agencies have made great progress on the project and all deliverables remain on target. While we have kept Supervisors up-to-date individually and as requested, we thought it important to provide an overview of the current status and what has been completed thus far.

- **Motorola Contract Negotiated and Executed.** We are pleased to report that per Board authorization, DAS and IMSD executed a long-term agreement with Motorola to begin the build out of the new public safety radio system.
- **Radio Acquisitions.** As reported during the Finance, Personnel & Audit Committee Meeting in June, in addition to the substantial savings negotiated in the contract with Motorola for the Milwaukee County subscriber radios, Milwaukee County and associated agencies were able to participate in an additional per radio discount through a promotional offer ending on June 20, 2014.
 - Milwaukee County was able to achieve additional savings of more than \$600,000 in radio costs due to our ability to participate in the promotional offering;
 - Twelve (12) Milwaukee County municipalities also participated in the promotional offering, purchasing more than 800 radios and saving approximately \$400,000 in tax dollars;
- **Project Execution.** The infrastructure portion of the radio project is comprised of three categories of work; 1) radio system equipment order, receipt and installation 2) antenna site agreements and construction 3) radio system acceptance testing. The following summarizes current project status for each category of work:

Radio system equipment order, receipt and installation

- All Phase 1 (first 6 channels) radio infrastructure, subscriber, microwave back haul and antenna site equipment has been ordered per the approved equipment specifications
- Most Phase 1 radio equipment has been received and is being securely stored at the Behavioral Health Division (BHD). The equipment is being staged at BHD for delivery to the installation sites. All antenna related equipment will be received at time of installation. Approximately 50% of the subscriber portable and mobile radios ordered through the Motorola pricing promotion (Radio Acquisitions mentioned above) have been received. The remaining radios will be received by the end of July.
- Radio equipment installation has begun. Network cabling in support of

the infrastructure equipment and microwave back haul has been run in the Courthouse and Safety Building. Radio system equipment delivery and installation schedule is being developed and all installation sites are being prepared to receive the new equipment.

Radio Tower Site Agreements and Construction

- With the assistance of Corporation Counsel, Risk Management, and, as needed, the Department of Administrative Services, Architectural and Engineering Division, IMSD is negotiating radio site agreements with the site landlords.
- Radio site tower structural assessments are required and are in process. At this time, we have learned that two of our antenna towers will need structural remediation in order to handle the load of new system antennas and microwave dishes. The project team is defining and evaluating remediation alternatives. Structural remediation costs are not yet known, however, they could be substantial. It is anticipated that remediation will be funded through project contingency. The project team is expecting the assessment results of the remaining towers by mid-July.
- It is anticipated that tower and site remediation and construction will begin in early August. The most fitting tower remediation solution must be selected and site agreements must be completed before construction.

Radio System Acceptance Testing

- Phase 1 system acceptance testing is scheduled for the months of November and December 2014. This occurs after installation has been completed; it is operational testing of the Phase 1 system.
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- **WISCOM and EF Johnson.** Given the initiatives directed at Milwaukee County and Waukesha County municipalities launched by WISCOM, IMSD and DAS had a series of meetings with WISCOM late last year to see if there was any opportunity to explore a broader relationship. The outcome was a Memorandum of Understanding that was subsequently presented jointly to an ICC sub-committee facilitated by Rob Henken. The findings were subsequently summarized at an ICC committee meeting in early fall 2013. In a nutshell, Milwaukee County and WISCOM both acknowledged that there may be opportunities to work together in the next generation of the radio platform, clarified funding resources available for municipalities (potential and limited grant money for infrastructure build out) and outlined reasons why Milwaukee County has chosen to move forward with the Motorola platform.
 - **Coordination Effort with Milwaukee County Municipalities.** As challenging as it has been to bring together Mayors, Administrators, Police and Fire Chiefs of 17+ municipalities and agencies we have made significant progress in providing critical information to them that will help shape their decisions going forward. Specifically:

- Email Communications. We have provided a an update communications to all key stakeholders through a series of email communications;
- ICC Meetings. We have updated both an ICC sub-committee and the ICC on numerous occasions;
- Negotiated Subscription Fees. We have worked closely with several municipalities in constructing a subscription and capital investment fee structure that strikes a balance between Milwaukee County's need for long term sustainability and the municipalities need to transition to a fee structure;
- Individual Meetings. We have met individually with elected officials, fire and police chiefs of 17 of the 19 municipalities to provide them with detailed information regarding the new digital platform;
- Individual Cost Proposals. We have provided a customized detailed cost outline for those municipalities requesting the information, providing them with very specific cost information based on their number and type of radios and number and type of dispatch consoles.
- Kick Off Forum. On July 2nd Milwaukee hosted a kick off meeting with all of those municipalities expressing an interest in moving forward on the new digital system. We were pleased with the response, having 15 municipalities in attendance to review the governance structure, the Inter-Governmental Agreement (IGA) and receive an update of the progress.
- Governance Structure Framed. With this group we discussed the framework of three bodies: the governing board, the technical committee and the operations committee. We have received general consensus to identify potential members and get the effort underway.
- IGA Drafted and Presented. Additionally at this meeting we outlined the framework, roles and responsibilities and fee structures within the IGA and will be receiving feedback from the municipalities in the coming weeks.

REMAINING STEPS

- **Continued 2014 Phase 1 Project Execution.** Next steps for the radio system build out are as follows;
 - Radio system equipment order, receipt and installation
 - Continue to receive, inventory and asset tag all new Phase 1 equipment
 - Continue to install and connect all equipment per the project plan
 - Antenna site agreements and construction
 - Complete site agreement modifications and negotiations.
 - Complete antenna tower assessments and select most fitting structural remediation solution.
 - Implement the tower remediation solution and begin construction
 - Program and distribute subscriber radios
 - Prepare training plan and materials and conduct system training
 - Prepare and execute Phase I radio system acceptance test plan
- **2015 Phase II Project Execution**
 - Implement the second bank of 6 channels


- **2016 Phase III Project Execution**
 - Implement the final bank of 6 channels
 - System acceptance testing
 - Final System Acceptance and project closure
- **Establishing the Milwaukee County Public Safety Radio Governance Committee.** In the coming weeks, Milwaukee County and the associations for the Fire and Police Chiefs will begin the selection process of the Governance Board and begin meeting in an effort to clarify roles and responsibilities.
- **Prepare IGAs for Approval and Execution.** Milwaukee County will continue to work with the municipalities to craft the final version of the IGA for presentation to their respective boards for approval, for us to present to the ICC for approval and final to present to the Milwaukee County committees and board for approval during the September cycle.

Prepared by:



Laurie Panella
Deputy Information Officer, IMSD

Approved by:



Don Tyler
Director of Admin Services

cc: Chris Abele, County Executive
 Supervisor Marina Dimitrijevic, Chairwoman, County Board of Supervisors
 Supervisor Jason Haas, Vice Chair, Finance, Personnel and Audit Cte
 Supervisor Mark Borkowski, Vice Chair, Judiciary, Safety, & Gen Services Cte
 Raisa Koltun, Chief of Staff, County Executive's Office
 Kelly Bablitch, Chief of Staff, County Board
 Don Tyler, Director, DAS
 Josh Fudge, Director, Office of Performance, Strategy & Budget, DAS
 Steve Cady, Research and Policy Director, Office of the Comptroller
 Erica Hayden, Research and Policy Analyst, Office of the Comptroller
 Janelle Jensen, Committee Clerk, Finance and Audit Committee
 Alexis Gassenhuber, Committee Clerk, Judiciary, Safety, & Gen Services Cte
 Pamela Bryant, Capital Finance Manager, Office of the Comptroller
 Vince Masterson, Fiscal Management Analyst, DAS
 Justin Rodriguez, Capital Finance Planning Analyst, Office of the Comptroller
 Ayce Chiappetta, Fiscal Management Analyst, DAS
 Rich Foscatto, IT Director of Applications, IMSD
 Hugh Morris, Business Systems Project Manager, IMSD

