



Miami-Dade County Board of County Commissioners

Office of the Commission Auditor

Legislative Analysis

**Health, Public Safety & Intergovernmental
Committee**

July 15, 2010

2:00 P.M.

Commission Chamber

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**Miami-Dade County Board of County Commissioners
Office of the Commission Auditor**

**Legislative Notes
Health, Public Safety & Intergovernmental Committee
Meeting Agenda**

July 15, 2010

Written analyses and notes for the below listed items are attached for your consideration:

Item Number(s)

3C

If you require further analysis of these or any other agenda items, please contact Guillermo Cuadra, Chief Legislative Analyst, at (305) 375-5469.

Acknowledgements--Analyses prepared by:
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**MIAMI-DADE COUNTY
BOARD OF COUNTY COMMISSIONERS
OFFICE OF THE COMMISSION AUDITOR**



Legislative Notes

Agenda Item: 101515
File Number: 3(C)
Committee(s) of Reference: Health, Public Safety and Intergovernmental Committee
Date of Analysis: July 12, 2010
Type of Item: Modification of Contract

Summary

This resolution approves Modification of Contract No. BW7514-15/24-2 for additional spending authority for the Miami-Dade Fire Rescue (MDFR) and Enterprise Technology Services (ETSD) departments to purchase a new Microwave Radio Communication System and purchase additional equipment, parts, and services necessary to stabilize and upgrade the 450 MHz Ultra High Frequency (UHF) Radio System (System).

This resolution authorizes waiver of formal bid procedures for a non-competitive contract modification for the above referenced contract.

If authorized, the additional \$9,621,000 will be allocated for the following:

- Completion of Phase two (2) UHF Implementation
- Microwave Communication System
- Radio Consoles equipment, parts, and services for the LightSpeed Facility.

**Microwave System Replacement Contract Highlights, June 3, 2010
(Supplemental Agreement No. 1)**

- Motorola, Inc. (Motorola) understands that the County has no further funding for this project. In the unlikely event interference creates a problem; Motorola will propose alternate solutions within the approved funding. (See Section 1.1)
- The County is responsible for any upgrade necessary for towers or sites. There are three sites that Miami-Dade County is in process of upgrading. The three sites are: Miccosukee, Telecommunications Control Center and Interama. (See Section 1.1.4)
- Training is included in the proposal. (See Section 1.1.6)
- Motorola understands the County will not accept additional cost change orders, therefore in the unlikely event a modification to the proposal is needed in order to overcome an obstacle beyond control, Motorola will work with Miami-Dade County and mutually alter the scope. (See Cost Management 2.3.3)
- Motorola's Project Manager and Lead Engineer will continue to have these individuals assigned to the project, as long as it is feasible for Motorola and for the individual, for one year. (See Sections 2.3.7.1 and 2.3.7.2)
- Motorola will work with the County to identify any mutual radio interference. Any costs associated with site changes and/or delays; including, but not limited to, reengineering,

frequency re-licensing, site zoning, site permitting, schedule delays, site abnormalities, re-mobilization, due to the site being unusable for any frequency issues outside of Motorola's control will be adjusted through the Change Order process (See Interference 2.5.1.3)

- Motorola has not included site improvements in the core of this proposal. Should any site improvements be required, this Statement of Work will be updated via the Change Order process. (See Section 2.6)
- The County should provide reasonable access to all County-owned or leased work sites. Access may be needed 24 hours a day during the course of this project.(See Section 2.6.1)
 - **Question:** Does this contract require funding for overtime expenditures?
- County representatives are welcomed to be present during testing period to witness each of the tests. (See Section 2.7.5)

The following information was provided by ETSD staff:

- **Operating and Maintenance Cost for ETSD**

The microwave system comes with one (1) year of warranty. Once warranty expires, ETSD staff will maintain the system as they currently do with the present microwave system including having stock equipment (crash kit) to repair outages. The current annual maintenance cost of the existing system, which has been in operation for over 15 years, is approximately \$25,000.
- **Monetary Responsibility from Municipalities**

There is no planned chargeback or reimbursement from the municipalities. The microwave system is a transport component of the 800 MHz system which the municipalities are already paying for through the Ticket Surcharge.
- **Usage by Neighboring Counties (Broward, Palm Beach, Monroe etc.)**

As part of the County's Interoperability plans, the new Microwave system could be utilized to carry audio communications for other radio systems which interoperate with the County's 800 MHz radio system.
- **Testing and Results**

This is public safety grade Microwave technology with a dual backup network and redundant components. Microwave systems are the standard for public safety communications between two points. The system the County is acquiring takes advantage of advance network capabilities and designed to work with radio systems such as the Motorola UHF 450 MHz system and the Harris 800 MHz P25 system presently being installed. In addition, the contract for this project contains terms and conditions of performance that protect the County and it has been reviewed for legal sufficiency by the County Attorney's office.
- **Other Jurisdictions**

As current users of microwave technology, ETSD relies on microwave to connect 800 MHz sites and staff has examined thoroughly the technology the County is acquiring. Locally, there are several jurisdictions that utilize microwave technology including State of Florida, City of Miami, City of Miami Beach, Broward County and Monroe County. Because of the requirements to keep these systems operating, the County maintains an open dialogue regarding microwave related matters with these entities.

Prepared by: Michael Amador-Gil