

# Agenda Report

**TO:** CITY COUNCIL

**DATE:** September 27, 1999

**FROM:** CITY MANAGER

**SUBJECT:** PURCHASE AND INSTALLATION OF A THREE-HOP DIGITAL  
MICROWAVE SYSTEM

## **RECOMMENDATION**

It is recommended that the City Council

1. Accept the bid dated May 18, 1999 submitted by Telcom Communications in response to the specifications for the purchase and installation of a three-hop digital microwave system.
2. Authorize the City Manager to enter into a contract with Telcom Communications for an amount not to exceed \$304,825.72.

## **BACKGROUND**

The Mirador Communications Facility located at 2000 Glen Oaks Boulevard provides radio communications coverage for the Police Department, Public Works Department, Water & Power Department and all other City service departments. This site also provides point-to-point microwave communications which carry telephone and data service to the City Yards and the Water & Power Administration Offices at 150 S. Los Robles Avenue as well as control channels for the various radio communications systems from the Police Department Dispatch Center.

The areas serviced by the Mirador site have a tremendous impact on public safety, not only in daily operations but also in the event of an emergency or disaster. Outages occurring on the existing equipment affect daily operations and could be potentially devastating if an emergency occurred and communications were disrupted. When an outage occurs, Police dispatchers cannot access the main base stations and thus cannot communicate with field personnel, primary radio communications to all city departments is lost, and telephone and data services to City Yards and Grosvenor Plaza is disrupted.

The existing microwave system consists of three segments, each segment having different capacity and each using a different version of hardware. This creates maintenance problems and carries great risk of extended outages due to the lack of backup systems and availability of replacement components. The amount of potential downtime associated with the current configuration and the increase in outages due to the age of each segment is an unacceptable mode of operation for the safety of Pasadena's citizens.

This complete system upgrade provides a full hot-standby configuration of equal capacity, the highest level of redundancy and the least amount of downtime annually. Since each link will be identical in configuration, fewer spare components are required.

A Notice Inviting Bids was published on April 1, 1999 in The Journal News. Bids were mailed to twelve firms. At the bid opening of May 19, 1999, one firm submitted a bid. The bid result is as follows:

BIDDER	AMOUNT
1. Telcom Communications	\$304,825.72

The bid submitted by Telcom Communications was a responsive and responsible bid. Therefore, it is recommended that the bid be awarded to Telcom communications in the amount of \$304,825.72.

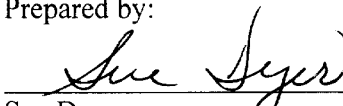
**FISCAL IMPACT**

The subject project is included in the approved FY99 Capital Improvement Program. Funding for this portion of the project is available in the El Mirador Transmitter Site Project, Account #301-145300-71102.

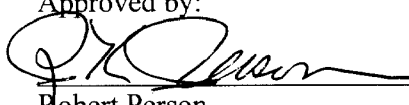
Respectfully submitted,

  
for CYNTHIA J. KURTZ  
City Manager

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