



BOARD OF SUPERVISORS
AGENDA LETTER

Agenda Number:

Clerk of the Board of Supervisors
105 E. Anapamu Street, Suite 407
Santa Barbara, CA 93101
(805) 568-2240

Department Name: General Services
Department No.: 063
For Agenda Of: October 21, 2014
Placement: Administrative
Estimated Tme:
Continued Item: No
If Yes, date from:
Vote Required: 4/5

TO: Board of Supervisors

FROM: General Services Matthew P. Pontes, Director 560-1011
Contact Info: Jennifer Slayman, Assistant Director, 568-2606
Information & Communications Technology Division

SUBJECT: County Telephone and Data Communications Microwave System Installation,
Award Contract

County Counsel Concurrence

As to form: Yes

Other Concurrence: Risk Management

As to form: Yes

Recommended Actions:

That the Board of Supervisors:

- a) Approve and authorize the Chair to execute a Contract with Alcatel-Lucent USA Inc., 600 Mountain Avenue, Murray Hill, NJ 07974, not a local vendor, in an amount not to exceed \$159,285, to upgrade the County Microwave System; including the installation, maintenance, software, and training to expand microwave services for County departments;
- b) Approve Budget Revision Request (BRR) BJE0003592 transferring \$70,000 from the Community Services Department, Parks Division and \$89,285 from the General Services Department/Communications Fund 1919 Retained Earnings to General Services/Communications Fund 1919 Capital Assets, for a total transfer of \$159,285; and
- c) Determine that the proposed project is exempt from the provisions of CEQA pursuant to State CEQA Guidelines Section 15301, as it involves the operation and maintenance of County equipment that will result in no or negligible expansion of existing use and direct staff to file an Notice of Exemption on that basis.

Auditor-Controller Concurrence

As to form: Yes

Summary Text: Santa Barbara County operates a digital microwave network, which provides 24/7 connectivity for a variety of communications systems including telephone, data and radio. This upgrade will expand our microwave system to reach remote County offices. It will also increase the bandwidth capacity to remote offices from the County network, for both voice and data connectivity.

Background:

Many County offices are located outside our major campuses. Typically, these remote offices contract with telecommunication vendors for communication connectivity services. A separate 1.5 Mbps connection (T1) is installed and leased for both voice and data. A T1 connection is a low bandwidth solution. As automation processes have increased dramatically in recent years, County departments need much greater bandwidth to operate efficiently. Department options in the past were limited to installing additional T1 lines or cellular service connections. In some cases our telecommunication vendors did not have capacity for the additional lines and remotes sites were forced to make do with insufficient bandwidth. To meet the needs of remote offices for improved bandwidth options General Services has developed a new service called Point to Point Microwave. This service can offer 10 Mbps bandwidth connections, nearly seven times the bandwidth of an existing T1 line.

Point to Point Microwave works using a hub and spoke model. The hub microwave site is at Santa Ynez Peak. The spokes will link to the remote offices. One main spoke will link from Santa Ynez to the Emergency Operations Center (EOC) where it connects to the County network. This main link is referred to as the backhaul link. Each of the remote offices will have their own 10 Mbps stream of data to Santa Ynez and then will share the backhaul link to the EOC. The backhaul link is a 180 Mbps connection. The hub is funded by General Services at \$89,285 and is able to support up to 18 satellite destinations of 10 Mbps each. The County Parks division of Community Services Department (CSD) will be the first remote office on this model. Parks has submitted and attached a budget revision for \$70,000 to allocate funding for the purchase of the link from Cachuma Lake to Santa Ynez.

The project involves the installation of the main microwave link from Santa Ynez Peak to the County EOC. Subsequently, the link to Cachuma Lake will be installed. At peak use times, the internet connection to the Parks online reservation system and the County network is at or above capacity. The saturated connection slows down the registration process for arriving campers and other administrative functions at the park. This upgrade improves connectivity and the check in experience by allowing multiple user sessions with faster transaction speeds. Installing the Point to Point link also saves money versus installing multiple 1.5 Mbps connections (T1). A T1 line costs approximately \$600 a month. Parks has two T1 lines for a 3 Mbps connection at \$1,200 a month. The new microwave system will provide a 10 Mbps connection for \$1,355/month which is almost seven times faster than the existing connection.

This request is also for a service contract with Alcatel USA to provide services for the upgrade of the TSM8000 microwave management and monitoring server, three years of ongoing maintenance of the equipment, and onsite training of the Communication Division's radio technicians.

Performance Measure:

Percent of customers satisfied or highly satisfied with services provided by the department.
(Target = > 85%)

Fiscal and Facilities Impacts:

Budgeted: No. Funds were budgeted in FY 2013/2014 but not expended due to time constraints. The total costs for the contract with Alcatel USA is \$159,285. This Board Letter is also requesting an appropriation transfer in the amount of \$159,285 to make those funds available in fiscal year 2014/2015. CSD/Parks is transferring \$70,000 for the purchase of the Cachuma to Santa Ynez link and the Communications Fund 1919 will release \$89,285 from retained earnings for the purchase of the Santa Ynez to EOC link.

Fiscal Analysis:

<u>Funding Sources</u>	<u>Current FY Cost:</u>	<u>Annualized On-going Cost:</u>	<u>Total One-Time Project Cost</u>
General Fund	\$ 70,000		\$ 70,000.00
State			
Federal			
Fees			
Other:Fund 1919	\$ 89,285		\$ 89,285.00
Total	\$ 159,285	\$ -	\$ 159,285.00

Key Contract Risks:

Inclement weather: As we enter into autumn, work to be completed on Santa Ynez peak becomes more difficult in inclement weather and could delay the project. Every effort will be taken to schedule work on the mountain top before we enter the winter season.

Special Instructions:

Please send one (1) duplicate contract to Alcatel USA. Please send contract and one (1) duplicate of the minute order to Jennifer Slayman, General Services Department.

Attachments:

- Attachment A: One (1) Original and one (1) duplicate original Contract
- Attachment A-1: Statement of Work
- Attachment A-2: Alcatel Quote
- Attachment B: BJE0003592
- Attachment C: Notice of Exemption

Authored by:

Jennifer Slayman, General Services - Assistant Director, 568-2606