

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

901



FROM: Public Safety Enterprise Communication Project Executive Steering Committee

SUBMITTAL DATE:
March 4, 2009

SUBJECT: PSEC Detail Design and Contract Amendments

RECOMMENDED MOTION: That the Board of Supervisors:

1. Accept the PSEC radio system detail design and mid-course schedule adjustment;
2. Ratify the total system cost of \$148.3 million;
3. Approve and execute the attached contract First Amendment with Motorola, Inc. increasing the contract amount from \$104,437,779 to \$111,895,079 to accommodate project revisions and modify contract milestone payment dates in accordance with Ordinance 459.4;
4. Approve and execute the attached contract Second Amendment with Motorola, Inc. to enhance portable radio coverage; and,
5. Authorize the PSEC Steering Committee to proceed with the implementation of the Public Safety Enterprise Communication (PSEC) Project.

BACKGROUND:

The Board of Supervisors, Executive Office, Sheriff's Department, County Fire, Riverside County Information Technology (RCIT), Facilities Management, and key stakeholders have made a commitment to resolving the County's 800 MHz radio coverage issues.

(Continued on Page 2)

Stan Sniff
Sheriff-Coroner-PA

John Hawkins
Chief, County Fire

Matthew W. Frymire
Chief Information Officer

FINANCIAL DATA	Current F.Y. Total Cost:	\$7,457,300	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	0	Budget Adjustment:	No
	Annual Net County Cost:	0	For Fiscal Year:	08/09

SOURCE OF FUNDS: General fund designation (25%) and Long-term financing (75%)	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION: APPROVE

County Executive Office Signature

BY:
Elizabeth J. Olson

FORM APPROVED BY COUNTY COUNSEL
BY:
NEAL R. KIPNIS
DATE: 3/24/09

Purchasing:
Mark Seffler, Assistant Director

Policy

Consent

Dep't Recomm.:
Per Exec. Ofc.:

3/24/09 11:08
Elizabeth J. Olson

3.33

BACKGROUND: (Continued)

The effort commenced in September 2005 and after an extensive RFP evaluation process, the Board of Supervisors awarded \$104.4 million to Motorola Inc. and directed the project team to return to the Board following the detailed design phase of the project.

The Board approved a total system cost estimate of \$148.3 million, consisting of the following major components:

Vendor Contract	\$104.4M
Land Acquisition	\$8.6M
Contract and Land Contingency (10%)	\$11.3M
PSEC Project Team Operations (4 yrs)	<u>\$24M</u>
Estimate of Total System Cost	\$148.3M

Detailed Design Phase

During the detailed design phase, all the original physical and functional aspects of the proposed system were systematically analyzed and documented. System components included, but were not limited to: voice system infrastructure, high performance data infrastructure, microwave infrastructure, dispatch centers, vehicle requirements, acceptance testing, functional training, operational training, technical training, network security and business continuity planning. As part of the site selection process, the PSEC Project Team secured co-location and shared site agreements with federal, state, county, and other municipal agencies at 43 of the radio communication sites required to build the PSEC system. A mid course revision was planned to ensure that the project met objectives.

While the final coverage design provided by Motorola during the detail design phase exceeds the County's mobile (in car) coverage objectives, it did not meet the County's requirements for portable (on hip) radio coverage. To enhance the portable radio coverage, both the Motorola and the PSEC Project Teams reconvened and developed a solution that will meet the portable radio coverage objectives of the County.

To maintain a project schedule that will deliver improved radio coverage for public safety personnel, the Steering Committee is recommending a modified implementation schedule that will require additional work. The implementation of the initial design provided by Motorola, which offers greatly enhanced coverage, will be completed per the adjusted schedule. The further enhancements to the County's portable radio coverage objectives will be completed approximately 12 months later.

The PSEC Executive Steering Committee will return to the Board for approval to proceed with the portable radio coverage enhancement effort once the detail design is complete, and all cost and schedule impacts are fully defined. The Steering Committee, working with Counsel, has completed Motorola contract Amendment 2 to address the portable radio coverage enhancement effort. This amendment is included in this agenda item for your approval today. The contract amendment includes the contract performance criteria and anticipated milestones for the additional work required in Amendment 2.

Detail Design Change Orders

During the Detail Design analysis the PSEC Project Team identified areas in the proposed design where changes were required to meet the operational specifications of the County. The proposed changes were presented to the PSEC Executive Steering Committee for final approval.

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The resulting changes approved by the PSEC Executive Steering Committee consisted of:

- Increasing the tower height at select radio sites to meet the coverage objectives.
- Expansion of selected radio site shelters to meet the needs and contractual obligations of government agency partners. (Grant funding and contributions from agencies offset this cost by \$1,032,472).
- Modifications to proposed system components to reduce long term operational costs.
- 700MHz for aviation.
- Two additional dispatch consoles and call logger recorder.
- Purchase of additional network routers and switches to improve system operations.

At some locations the movement of radio sites required aesthetic changes such as block walls or special fencing; road construction; and changes to the commercial power source.

The recommended changes will require an increase in the Motorola contract by \$7,457,300 totaling \$111,895,079. The County's discount on the additional network routers and switches is greater than can be obtained through Motorola and will be purchased by the County at a cost of \$640,600. However, project financial planning is adequate to cover these costs within the current project budget, and the total project cost remains as originally approved by the Board at \$148.3 million.

Environmental Assessments

The CEQA process required an impact review that encompassed the project as a whole as opposed to individual sites, as originally planned. This change created a six to eight month delay in site acquisition and construction tasks. To mitigate the impact of this delay, the project plan has been modified to execute construction projects simultaneously using multiple teams, and schedule downstream implementation tasks to be completed simultaneously.

The NEPA environmental assessment is required for all federally controlled property where PSEC proposes to erect a radio site. Cost recovery contracts with the federal agencies have been negotiated individually with each federal agency. The NEPA duration is dependent upon the availability of resources within each agency; therefore, timelines to complete the work cannot be fully defined. The delays as a result of the NEPA assessments are still unknown; however, it is estimated that the federal agencies will not have these completed any earlier than the later part of 2009.

Project Schedule

Due to impact review, and delays, there is no remaining contingency time in the project plan. Good project management practice dictates that we make a mid-course schedule adjustment to the project timeline to adequately reflect the delays associated with the environmental processes.

The PSEC Executive Steering Committee is requesting a mid-course schedule adjustment to the project plan to extend the original project schedule by an additional 12 months to October 2011. All efforts will be made to implement ahead of this schedule to ensure the County's radio communication needs are met as quickly as possible. The portable radio coverage enhancements are scheduled to be completed approximately 12 months later in October 2012.

Revised Project Schedule

Milestones	Percent Complete	Planned Start	Planned Completion	Comments
Detail Design	100%	Mar 2007	Aug 2008	On schedule
Sites				
Upgrades	10%	Sep 2007	Jan 2010	On schedule
Acquisition	60%	Aug 2007	Aug 2009	On schedule
Civil Work	43%	Nov 2007	Mar 2010	On schedule
Complete Site Construction	9%	Oct 2008	Jul 2010	Potential risk for further delays due to the NEPA process.
Equipment Installation	0%	Dec 2008	Sep 2010	
Complete Acceptance Testing	0%	Jun 2009	Jul 2011	
Training	0%	Apr 2010	May 2011	
Complete Implementation	0%	Sep 2010	Sep 2011	
60 Day Reliability Test	0%	Aug 2010	Sep 2011	
Final Acceptance	0%	Oct 2010	Oct 2011	
Complete Portable Radio Enhancements	0%	Jan 2009	Oct 2012	

Budget Summary:

The total estimated project cost remains as originally approved by the Board at \$148.3 million. The contingency fund established at project initiation was \$11.3 million. If the change recommendations noted above are approved, the project contingency fund will be drawn down by \$7,457,300, leaving a remaining balance of \$4,234,572 in the contingency fund.

With regard to the revisions, Motorola and the PSEC Project Team have completed the preliminary design for the portable radio coverage enhancements and currently estimate the project costs to be \$13.5 million, of which the County will contribute \$3.1 million. As indicated above, the PSEC Executive Steering Committee will return to the Board for approval to proceed with the portable radio coverage enhancement effort and identify all costs to be applied against contingency.

The PSEC Project Team operating expenses and the land acquisition costs have been less than originally estimated. If these trends continue, there will be additional funds that can be applied to contingency. The PSEC Project Team and the Executive Steering Committee recommends maintaining the remaining project contingency and realized budget savings in the project budget to address any potential unforeseen costs.

Vendor Contract	\$111,895,079
Land Acquisition	\$ 8,572,000
Remaining Contract and Land Contingency	\$ 4,234,572
County Purchase of Master Routers and Switches	\$ 640,600
PSEC Project Team Operations	\$ 24,000,000
Elsinore Peak Credit	\$ (1,032,472)
Estimate of Total System Cost	\$148,300,000

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Summary:

The members of the PSEC Executive Steering Committee and the PSEC Project Team have worked diligently to finalize a detail design that will meet all the operational needs of the departments, and remains committed to completing all aspects of the project within the budget and revised timelines. The budget and revised schedule estimates are the result of a thorough detail design process that encompassed 18 months of concentrated effort to complete 34 detailed design documents that define the critical system functionality and testing criteria for the new system.

The PSEC Executive Steering Committee will return to the Board for approval to proceed with the portable radio coverage enhancements once that detail design is complete, and all cost and schedule impacts are understood. The PSEC Project Team will continue to provide monthly *status reports and quarterly updates to the Board on the project.*