

Honorable Mayor and Members
of the City Council
City Hall
Torrance, California

Members of the City Council:

**SUBJECT: Communications & Information Technology and Police Department
– Approve the purchase of police portable radios from Advanced
Electronics**

Expenditure: \$943,761.60 (Includes tax & shipping)

RECOMMENDATION

The Information Technology Director and the Chief of Police recommend that City Council:

1. Approve the purchase of 320 Motorola XTS5000 portables radios, 100 spare batteries, 250 carrying cases, and 50 lapel microphones.
2. Award a sole source purchase order to Motorola in care of Advanced Electronics, Inc. of Redondo Beach, CA, in the amount of \$943,761.60 for the purchase of the radios and accessories.
3. Appropriate and allocate \$25,374.00 from the City's Trust and Agency Fund to FEAP 436 in support of the purchase.

Funding

1. Funding of \$914,087.68 is available in FEAP 436, Radio Communication Systems Replacement.
2. Funding of \$29,673.92 is available from two sources. \$25,374.00 is available in the City's Trust and Agency Fund, deposited under DR#060043980 and forfeited to the Police Department pursuant to a Court Order under Case #YA066921. The remaining \$4,299.92 is available in the Police Department's operations budget (1001-7011030000-4712)

BACKGROUND

The current portable radios used by the Police Department (PD) were purchased and placed into service in 1994. At the time of purchase the manufacturer estimated a useful life of ten years. The radios have been in service almost 14 years and are beginning to fail at an unacceptable rate. The manufacturer has announced that they will be discontinuing technical support for these radios and will not be manufacturing replacement parts in the near future.

ANALYSIS

The proposed replacement radio, the Motorola XTS5000, complies with all current and proposed FCC regulations and has a useful life expectancy of ten years. The manufacturer will provide full technical support and replacement parts for these radios.

The proposed radios can be upgraded at an additional cost should it be necessary to meet future "trunking" or Project 25 Mutual Aid requirements. Trunking refers to a method where agencies on the same infrastructure are able to share channel resources when only a small number of channels are available. Project 25 is a digital audio format proposed by the FCC for future use.

The recommendation also includes a software license upgrade to convert the existing PD's 160 Motorola XTL5000 from a standard analog mode to the newly required Common Air Interface digital mode. The software upgrade will be performed by CIT staff.

Additionally, the PD's 320 radios that are being replaced will be reassigned to various non-public safety departments. Retaining and reassigning these radios will temporarily defer the replacement of 157 portable radios purchased and placed into service in 1990.

Advanced Electronics, Inc. is the only dealer for Motorola authorized to sell this type of radio to the City of Torrance. The Torrance Municipal Code Section 22.3.17 Exception, Sole Source Purchases reads as follows:

- a) For purposes of this Section, "sole-source purchases" means those purchases where it would be undesirable or impossible for the City to advertise for bids for particular work or for patented items, or experimental or unique services or products, or where competitive purchases would be unavailable or would not prove advantageous for the City. No sole-source purchases may be made where to do so would show favoritism, improvidence, extravagance, fraud or corruption, or result in the waste of public funds, but may be used only to obtain the best economic result for the public.

Respectfully submitted,

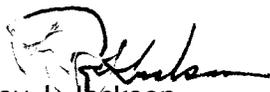


RICHARD SHIGAKI
Information Technology Director



JOHN J. NEU
Chief of Police

CONCUR:



LeRoy J. Jackson
City Manager

Attachment A - FEAP 436

City of Torrance

436

Capital Improvement Project Request Form**Type of Project: Systems Replacement** **Equipment** **Automation** **Infrastructure** **Facilities** **Other****Project Location: Various locations throughout the City****Department: Communications
& Information Technology****Project Title: Radio Communication Systems Replacement****Description:**

Replace the existing public-safety and local government department two-way, voice radio systems. This includes the replacement of approximately 800 mobile and portable radios, two public safety dispatch centers, and the supporting facility infrastructure. The replacement will upgrade all existing fixed radio transmitters, remote receivers, and antenna systems throughout seven facilities. The replacement project will include the purchase of all necessary design, procurement, installation, testing, training, and initial warranty.

Justification:

The current 13 year old system is more prone to failure than ever before. The current system has already exceeded the manufacturer's 10-year life expectancy. Per the proposed project timeline the system will have been in place for over 15 years. Replacement parts are more difficult and expensive to obtain. The majority of the mobile radios in service today will no longer be supported by the manufacturer as of 2004.

The replacement system will comply with the new Federal Communication Commission (FCC) mandates to migrate to the narrow-band frequency spectrum format. The system will offer enhanced features to support more complex inter-departmental communication configurations. It will create new technical system management capabilities and improve in-field user operations. It will also meet the need for interoperability with external agencies.

The proposed replacement system is expected to last 10 years and support all future capacity and operational requirements.

May 2006 Update:

None

September 2006 Update:

The project was divided into four Fiscal Year phases and is currently in its 3rd year (FY 06/07). A total of 160 Police and 15 Fire mobile radios were replaced and installed in FY 04/05. Thirty-four (34) radio receivers and 16 radio repeaters were purchased late in FY 05/06. The receivers and repeaters are being tested and prepared by a contractor and installation is scheduled for mid-October 2006. Planning is still underway for the FY 06/07 replacements. Staff expects that the 4th phase will include replacement of 150 local government mobile radios with a projected installation in June 2007.

December 2006 Update:

As part of Phase 3 (FY 06/07), on December 19th, City Council approved the purchase of 225 mobile radios. The new radios are expected to be delivered in February 2007 and installed by City staff in 2007. Planning is still underway for Phase 4 (FY 07/08) replacements. Staff anticipates all local government portable radios will be replaced in Phase 4.

March 2007 Update:

No update

Project Costs**Estimated Project Implementation Cost**

| | | |
|-------------------------------------|-----------|------------------|
| Additional Personnel Requirements: | | None |
| # of positions (within department) | | _____ |
| Annual labor costs (with benefits) | \$ | _____ |
| Additional Personnel Requirements: | | None |
| # of positions (support department) | | _____ |
| Annual labor costs (with benefits) | \$ | _____ |
| Equipment | \$ | 2,632,580 |
| Materials | \$ | |
| Professional Services | \$ | 40,000 |
| Other | \$ | _____ |
| TOTAL | \$ | 2,672,580 |

Status of Land: No land involved City owned Not yet acquired

Estimated Annual Ongoing Operating and Maintenance Costs

None (Ongoing costs will be charged via Interdepartmental Rates.)

| | | |
|---------------------------------------|-------|-----------------|
| Additional Personnel Requirements: | 0 | |
| # of position(s) - within department | _____ | |
| Annual labor costs (with benefits) | | \$ |
| Additional Personnel Requirements: | 0 | |
| # of position(s) - support department | _____ | |
| Annual labor costs (with benefits) | | \$ |
| Professional Services/Contracts | | \$ |
| Materials | | \$ |
| Equipment | | \$ |
| Other: _____ | | _____ |
| TOTAL | | \$ _____ |

Project Time Line

Fiscal Year Ending June 30

| <i>Description</i> | 2004 | 2005 | 2006 | 2007 | 2008 |
|-----------------------|------|------|------|------|------|
| Survey/Design | X | | | | |
| Plans/Specifications | X | X | | | |
| Purchase/Construction | | X | | | |
| Other: _____ | | | | | |

| Project Financing | | | | | | |
|--|--------------|------------------------------|------------|------------|------|------------------------------|
| Fiscal Year Ending June 30 | | | | | | |
| <i>Financing Source</i> | 2005 | 2006 | 2007 | 2008 | 2009 | TOTAL |
| General Fund | \$277,743.49 | \$292,500 | \$ 701,580 | \$ 269,120 | | \$1,540,943.49 |
| Airport Fund | | | 15,370 | 22,700 | | 38,070 |
| Cable Fund | | | 1,660 | 6,480 | | 8,140 |
| Park & Rec Fund | | | 33,900 | 126,450 | | 160,350 |
| RDA | | | 12,950 | 19,450 | | 32,400 |
| Sanitation Fund | | | 55,860 | | | 55,860 |
| Water | | | 65,920 | 51,880 | | 117,800 |
| Addl. Gen. Fund-CI# 7E dtd 7/27/04 | 176,490.47 | | | | | 176,490.47 |
| Asset Forfeiture Fund per CI# 7E dtd 7/27/04 | 42,526.51 | | | | | 42,526.51 |
| Swap fund with Bond Fund for Gen . Fund per CI# 11C dtd 2/1/05 | | (212,500) GF 212,500 Bond | | | | (212,500) 212,500 |
| Addl Bond Fund per CI# 11F dtd 9/21/04 | | 500,000 Bond | | | | 500,000 |
| TOTAL | \$496,760.47 | 792,500 | 887,240 | 496,080 | | \$2,672,580.47 |
| Less offsetting revenue * | 320,000 | 80,000 | 80,000 | 80,000 | | 560,000.00 |
| Net project request | \$176,760.47 | \$ 712,500 | \$ 807,240 | \$ 416,080 | | \$2,112,580.47 |

* Funding from the Radio Replacement Fund.

| | | | |
|---|------|--|------|
| Vehicle Request Approval (if necessary) | | Automation Request Approval (if necessary) | |
| Department Head Signature | Date | Department Head Signature | Date |

| | |
|--------------------------------|------|
| Requested by: | |
| Department Head Signature | Date |
| Department Priority # <u>1</u> | |