



To: Bay Area UASI Approval Authority
From: Jeff Blau, Interoperability Project Manager
Date: March 14, 2013
Re: Item #12: BayRICS P25 System of Systems Update

Recommendation:

No recommendation required.

Discussion:

A presentation reporting the progress towards first responder interoperability will be presented followed by a question and answer period.

Background:

The BayRICS P25 System of Systems currently has eight P25 Trunked Radio Systems in various stages of completion under way in the Bay Area.

- East Bay RCS (EBRCS)
- San Mateo IRC (SMIRC)
- Silicon Valley RCS (SVRCS)
- City of Oakland
- City & County of San Francisco
- Marin Emergency Radio Authority (MERA)
- BART Underground
- Monterey County

These eight counties will serve a population of nearly seven million which is approximately 82% of the twelve county UASI foot print. All of the systems will use either 800 MHz frequencies, 700 MHz frequencies or a combination of both. Only Monterey County will use a combination of VHF and 700 MHz frequencies. First responders will only require a single 700/800 MHz radio to achieve interoperability with other agencies or in Monterey County a single Multi-Band Radio capable of VHF and 700 MHz frequencies.

Progress:

The Regions BayRICS P25 Interoperability Project has built 70 of 126 radio sites (53%) and has purchased 15,880 of 46,100 Subscribers (34%). The regions investment in P25 Trunked infrastructure is over \$154 million and over \$95 million in P25 Subscribers for a total of more than \$229 million. It is estimated that the additional funding to complete the eight systems is estimated \$125 million for Infrastructure (56 sites) and \$155 million for Subscribers (30,220) for an estimated total of \$279 million.

Three of the eight systems are in use, the San Francisco Mutual Aid System (4 sites, 6 channels, 400 Subscribers), Oakland (4 sites, 10 channels, 2400 Subscribers) and EBRCS (33 sites, 6 cells, 6 – 16 channels, 13,200 Subscribers by July). The EBRCS System by itself is providing interoperability to over 40 agencies with 13,200 Subscribers serving a population of over 2.5 million citizens.

The BART Underground Mutual Aid system has two sites built, Oakland and Colma and will complete the system once the upgrade of the leaky cable system is finished mid-year. SMIRC will complete its 20 site system by the end of the year with plans of 2000 subscribers migrating within 18 months. SVRCS has seven sites funded and plans to have the cities of Santa Clara and Sunnyvale migrated to the new system within 24 months. MERA has gone to bid, awarded a contract and has started the first phase of their system. San Francisco is still in the planning stage for their new system.

Monterey County has gone to bid, awarded a contract and equipment has been delivered. Final Site selection and FCC licensing is underway. The system will be a combination of 700 MHz and VHF. Five sites will be VHF only and three sites will have both 700 MHz and VHF. The first five sites are scheduled for completion in August 2013 with the remaining 3 sites completed by June 2014. The system will provide interoperability to over 40 agencies totaling 3,000 Subscribers.

Sustainment:

The business plans of how the sub systems will be sustained vary from one system to another.

SMIRC	Monthly User Fees
EBRCS	Monthly User Fees
Monterey	Monthly User Fees
Oakland	Budgeted Annually (Monthly User Fees for Outside Agencies)
San Francisco	Budgeted Annually
BART Underground	Budgeted Annually
MERA	Flat Annual Fee (Based on radios, agency size and area of operation)
SVRCS	to be determined