

**EBRCSA**

East Bay Regional Communications System Authority



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September 2011

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August Progress Review

- **Patterson Pass**- Shelter and Generator on site.
- **Warm Springs BART**- Shelter and Generator on site.
- **Warm Springs BART**- P25 equipment delivered and installation has begun.
- **CTA/AECOM** – Delivered Final Report for the Contra Costa West Cell Coverage Testing. The report can be reviewed at http://www.ebrcsa.org/document_library.aspx.
- **MCC 7500 Consoles**- The order was placed. Factory staging will begin mid October.
- **651 Pine Street**- The equipment was staged, tested, and shipped to the field.
- **Shadybrook**- P25 Equipment installed.

About the System

EBRCSA, Motorola Solutions, and AECOM have finalized the site selection and coverage design for the two-county EBRCSA P25 trunked radio system. The EBRCSA 36 site system once completed in June 2012 will provide coverage and interoperability to all agencies operating on the EBRCSA system. This system will improve safety, eliminate duplication of overlapping independent systems, and provide effective interoperable voice communications. This will enable EBRCSA to provide improved public safety services.

The EBRCSA P25 System consists of an IP-based P25 Phase I simulcast subsystem and ASTRO 25 standalone repeater sites. The Motorola ASTRO 25 trunked system incorporates the latest technology, delivering the flexibility of an IP transport, FDMA operation and simulcast frequency efficiency. The site and channel count information for each simulcast cell has been identified below.

For site locations please use this link: http://www.ebrcsa.org/site_maps.aspx

Are you Ready?

Agency Cutover Preparedness List

1. Complete Fleetmap Process

2. Portable/ Mobile / Control Stations

- Complete inventory- **This task should be started immediately!**
- Verify subscribers are P25 equipped
- Develop programming templates for subscribers
- Subscriber programming, & testing/FCC Check
- Subscriber accessories / batteries/ chargers /mics
- Training on subscribers / Fleetmap / SOP changes
- Activate / load Subscriber data base into master site database
- Mobile installation plan / schedule
- Issue / assign portables
- Maintain accurate inventory

3. Dispatch

- Console configuration - screen layout
- Back up control station templates
- Back up control station programming and testing
- Dispatcher Training / Fleetmap / SOP changes

4. Logging

- Identify logging solution
- Configure / test solution
- Training

5. Cutover

- Develop cutover plan with the County Radio Shop & Motorola Project Team
- Perform testing
- Communicate the plan

6. Misc

- Trouble Reporting Procedures- Consoles
- Trouble Reporting Procedures- Subscribers

ALCO East Simulcast Cell – 700Mhz- 10 Channel

The Alameda County East simulcast cell (ALCO East) has four sites and ten channels per site configured for 700MHz operation. The four radio sites are the Doolan Prime Site, Sunol Ridge, Patterson Pass and East Dublin BART station. The ALCO East cell provides coverage in the Dublin, Livermore, and Pleasanton region.

Doolan – Completed

Sunol Ridge- Completed

East Dublin Bart- Completed

Patterson Pass – End of Sept



PATTERSON PASS GENERATOR INSTALLATION



PATTERSON PASS SHELTER INSTALLATION

ALCO Northwest Simulcast Cell – 700MHZ- 16 CHANNEL

The Alameda County Northwest simulcast system (ALCO Northwest) has four sites and sixteen channels per site configured for 700 MHz operation. The four radio sites in the ALCO Northwest are Glenn Dyer Prime Site, Seneca Reservoir, U.C.-Berkeley and Skyline Reservoir sites. The Northwest simulcast cell has been designed to provide coverage in Albany, Berkeley, Emeryville, Oakland, and Piedmont.

GLENN DYER JAIL – COMPLETED

U.C. BERKELEY – UNDER CONSTRUCTION

SKYLINE – UNDER CONSTRUCTION

SENECA – PLANNING / PERMITTING



UC BERKELEY SHELTER



UC BERKELEY TRENCH FOR POWER AND DATA

ALCO Southwest Simulcast Cell – 700Mhz – 12 Channel

The Alameda County Southwest simulcast system (ALCO Southwest) has seven sites and twelve channels per site configured for 700MHz operation. The seven sites are San Leandro Hills Prime Site, Coyote Hills, Garin water tank, Fremont Police Department, Warm Springs BART station, Walpert Ridge and Hayward Police Department. The Southwest simulcast cell has been designed to provide coverage in Fremont, Hayward, Newark, San Leandro, and Union City.

San Leandro Hills – Completed

Coyote Hills – Completed

Walpert Ridge – Completed

Fremont PD- Power Upgrade

Garin Water Tank- Upgrade PG&E/ Tower Extension

Hayward Site – Planning

Warm Springs Bart- Installation / Construction

CoCo West Simulcast Cell – 800Mhz- 10 Channel

The Contra Costa West simulcast cell (CCCO West) has four sites and ten channels per site configured for 800 MHz operation. The four radio sites are Turquoise Prime Site, El Cerrito Police Department, Pearl Ridge Reservoir and Nichol Knob (Point Richmond). The CCCO West Cell provides coverage in El Cerrito, Hercules, Kensington, Pinole, Richmond, and San Pablo areas.

This cell has been completed.

CoCo Central Simulcast Cell- 700Mhz- 10 Channel

The Contra Costa Central simulcast cell (CCCO Central) has eight sites and ten channels per site configured for 700 MHz. The eight radio sites are Cummings Peak Prime Site, 651 Pine Street in Martinez, Bald Peak, Highland Peak, Peter's Ranch Road / Apollo, Sydney Drive, Kregor Peak and Alta Mesa Moraga. (Note that Kregor Peak is a shared site with the CCCO East simulcast cell.) The CCCO Central cell will provide coverage in the areas of Walnut Creek, Clayton, Concord, Danville, Lafayette, Martinez, Moraga, Orinda, San Ramon and Pleasant Hill.

Cummings Peak – Completed

Kregor Peak – Completed

Bald Peak – Completed

Highland Peak – Completed

651 Pine St. – Installing

Sydney - Planning

Peter's Ranch – Planning

Alta Mesa – Planning

CoCo East Simulcast System- 700Mhz- 7 Channel

The Contra Costa East simulcast cell (CCCO East) has three sites and seven channels per site configured for 700MHz operation. The three radio sites are Kregor Peak Prime Site, Shadybrook and Los Vaqueros. The CCCO East Cell will provide coverage in the east county areas of Antioch, Pittsburg, Brentwood, and Oakley/Knightsen.

Kregor Peak – Completed

Shadybrook- Installed

Los Vaqueros – Planning

Stand Alone Repeater Sites

Motorola has included six Astro 25 stand-alone repeater sites to provide fill-in coverage in rural areas in both Alameda and Contra Costa Counties. Many of these sites provide seamless coverage in canyons and rural areas not covered by the EBRCSA simulcast cells identified above.

These stand alone repeater sites in Alameda County are:

- ◆ **EB Parks (Gwin)-** 4 Channel-800 MHz - Planning
- ◆ **Crane Ridge-** 4 Channel-800 MHz - Installed
- ◆ **Niles Canyon-** 5 Channel - 800 MHz - Planning

In Contra Costa the stand alone repeater sites are:

- ◆ **Marsh Creek Detention Facility-** 4 Channel-800 MHz - Site improvements
- ◆ **Old Fire Station 53-** 3 Channel-800 MHz - TBD
- ◆ **Crockett -** 6 Channel-800 MHz - Site improvements

Dispatch Console System

The EBRCSA is using a combination of upgraded gold elite and the IP based MCC 7500 consoles. Both consoles feature an easy to use Graphical User Interface (GUI). The seamless integration of the dispatch console into the radio system gives dispatchers full access to system functionality, allowing access and control of the Project 25 trunked resources, as well as superior audio quality.

MCC7500 Console Sites and positions:

- ◆ 5 Livermore dispatch center
- ◆ 5 Pleasanton dispatch center
- ◆ 27 Contra Costa Sheriff
- ◆ 9 Contra Costa Fire
- ◆ 6 Richmond dispatch center
- ◆ 3 Pinole dispatch center
- ◆ 2 Martinez Police
- ◆ 3 Pleasant Hill Police
- ◆ 6 Walnut Creek Police
- ◆ 8 Concord Police
- ◆ 4 San Ramon Valley Fire
- ◆ 2 Albany Police
- ◆ 8 Berkeley Police
- ◆ 2 Emeryville Police
- ◆ 4 East Bay Parks
- ◆ 2 UC Berkeley (Lakeside)

Status:

The equipment order for the MCC7500 consoles has been placed. The consoles will be staged in October. Testing and shipment will happen in November 2011.

Gold Elite Consoles to be migrated to the P25 System:

- ◆ 3 Newark Police
- ◆ 9 Fremont Police
- ◆ 4 Union City Police
- ◆ 6 Alameda County Sheriff
- ◆ 3 San Leandro Police
- ◆ 5 Alameda City Police
- ◆ 2 ALCO EOC
- ◆ 9 ALCO Fire Lawrence Livermore Labs

Status:

The Alameda County Radio shop is in the process of preparing the dispatch centers for the migration and integration to the EBRC P25 System. Planning is under final review and meeting will be scheduled with all of the dispatch centers to discuss the plan, answer questions, and set the schedule.

Working Groups

EBRCS Technical Advisory Committee (TAG)

- Alameda County Law Representative
- Contra Costa County Law Representative
- Alameda County Fire Representative
- Contra Costa County Fire Representative
- Public Services/Special District Representative
- Alameda County Technical Representative
- Contra Costa County Technical Representative
- Combined Dispatch Representative
- EBRCSA Executive Director

Bob Simmons

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Technology Consultants

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Scheduled Events

Subscriber Vendor Fair

When: **September 13th, 10AM – 1PM**

Where: **Alameda County EOC is located at 4985 Broder Blvd, Dublin, CA**

MAJOR MILESTONE EVENTS

- Centralized Nice Logger Integration – October 2011
- Master Site Functional Testing – October 2011
- Contra Costa West Cell Functional Testing – October 2011
- Alameda East Cell Functional Testing – October 2011
- Alameda East Cell Coverage Testing by Motorola Solutions – November 2011
- MCC 7500 Console System Staging – November 2011
- Contra Costa West Cell & Alameda East Cell On Line – Q1 2012
- EBRCS RF Infrastructure System Complete – June 2012

Upcoming Articles

Detailed breakdown of the Agency Cutover Preparedness.

Please tell us what you are most interested in. Use the link below for your suggestions:

[Hhttp://www.ebrcsa.org/Lists/ContactUs/NewForm_ContactUs.aspx](http://www.ebrcsa.org/Lists/ContactUs/NewForm_ContactUs.aspx)

FAQ's

Question: When will the system be completed?

Answer: July 1, 2012

Question: Where do I go to find more information and status of the project?

Answer: [Hwww.EBRCSA.org](http://www.EBRCSA.org)

Question: The radio system is live next June 2012. Does that mean all the radios have to be purchased and operational by that time? Or is there a time when CCC dispatch will continue to broadcast on the old system until all installations are complete for the new radio?

Answer: The plan is to start migrations onto the system starting in that timeframe. One of the drivers for this is narrowbanding which will be required for VHF and UHF users and would need to be completed by January 1, 2013. By migrating onto the EBRCS system before January 1, 2013 UHF and VHF system owners avoid the cost of reprogramming their conventional systems for narrowband operation.

Please submit your questions using the link below:

[Hhttp://www.ebrcsa.org/Lists/ContactUs/NewForm_ContactUs.aspx](http://www.ebrcsa.org/Lists/ContactUs/NewForm_ContactUs.aspx)

Please visit the [Hwww.EBRCSA.org](http://www.EBRCSA.org)H for all FAQ's.

If you have suggestions for the EBRCSA Newsletter, please submit them via the link below:

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EBRCSA:
http://www.ebrcsa.org/Lists/ContactUs/NewForm_ContactUs.aspx