



Public Works Agency



Ventura County
Watershed
Protection District

Hydrology Section

Southern California's Transition to ALERT2

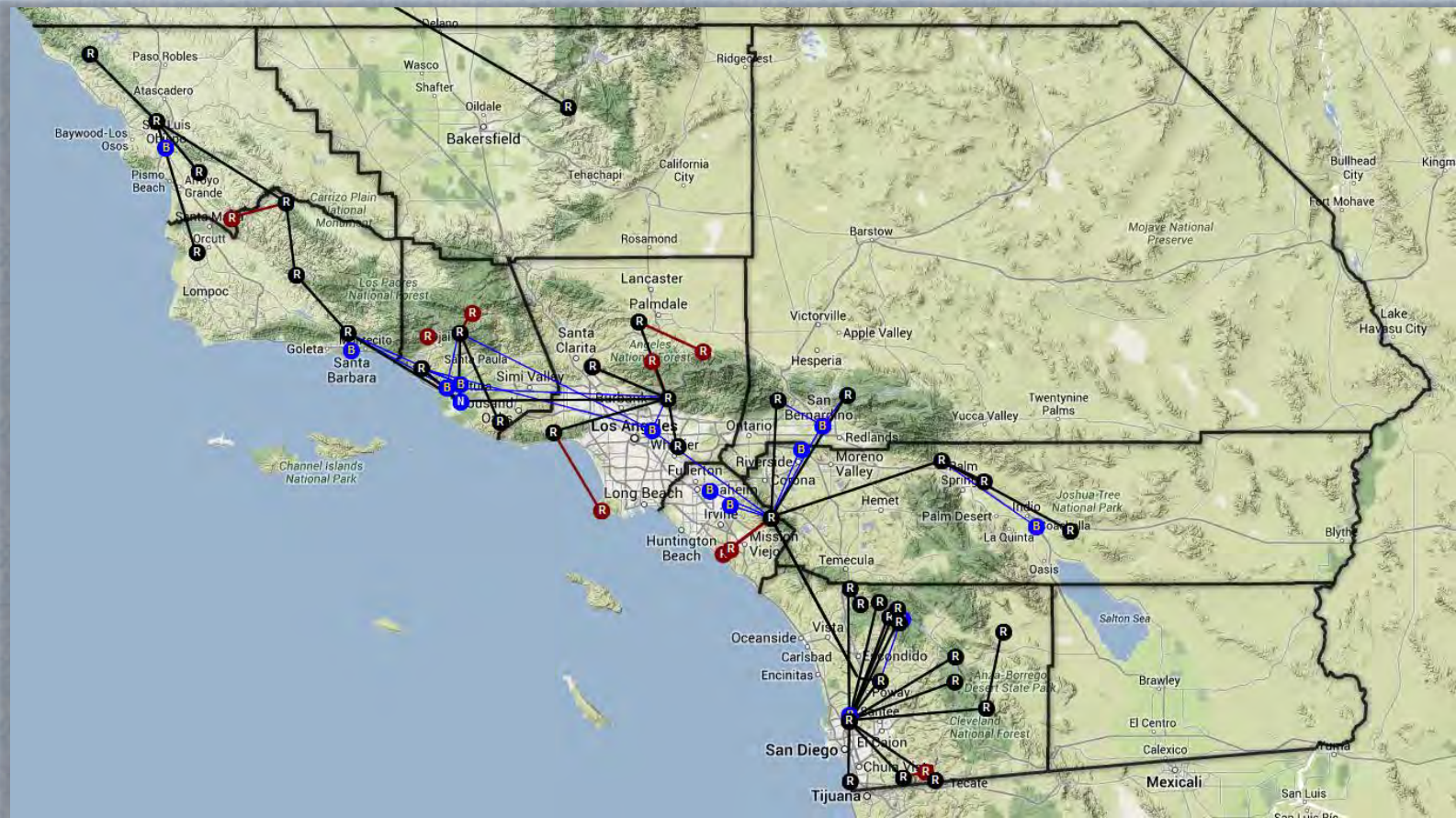
Presented to:
The ALERT Users Group
25th Flood Warning Systems Training conference & Exposition
Reno, Nevada
By
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May, 2014



Why Forces Were Joined

The Southern California network is so entwined that coordinating the move to ALERT2 will be critical.



PWA – VCWPD



DWR Awards Funds

The funds that will be received will be less than the original proposal but a great start to getting Southern California rolling forward into the migration of ALERT2.



\$839,356

FLOOD EMERGENCY RESPONSE PROJECTS – STATEWIDE GRANT: FINAL AWARDS

California public agencies with primary responsibility for flood emergency response and coordination were eligible to apply for this competitive grant. The geographic scope of this grant is statewide, outside of the Los Angeles area. The "Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006" (Proposition 84) makes funding available to improve local flood emergency response. Up to \$5 million in funding was available through this grant and required no local match. DWR has released the final funding awards for the projects, which are listed in the table below.

Projects Receiving Funding for Flood Emergency Response – Statewide Grants in 2013

| Lead Agency | Participating Agencies | Project Components Recommended for Funding | Amount Recommended |
|---------------------------------------|------------------------|--|--------------------|
| Reclamation District 108 | 19 | ER Plans, Multi-Agency Coordination Planning, Training | \$1,209,000 |
| Levee District 1 | 8 | ER Plans, Generator | \$416,469 |
| Yuba County OES | 6 | ER Plans, Comm. Equipment, Exercise | \$123,500 |
| Reclamation District 784 | 6 | Training, Flood Supplies, Generator | \$284,519 |
| Ventura Watershed Protection District | 7 | ALERT 2 upgrade, Training | \$839,356 |
| Sacramento County OES | 5 | ER Plans, Exercise, Sensor Upgrade | \$918,834 |
| City of West Sacramento | 7 | ER Plans, Mapping | \$270,500 |
| Merced County OES | 6 | ER Plans | \$91,183 |
| City of Roseville | 3 | ER Plans, Mapping, ALERT 2 upgrade | \$195,290 |
| City of Palo Alto | 7 | ALERT 2 upgrade | \$120,000 |
| Yuba City Fire Department | 3 | Comm. Equipment | \$111,289 |
| San Joaquin County OES | 1 | ER Plans, ALERT 2 upgrade | \$179,750 |
| Contra Costa County Sheriff | 1 | Stream Gauges | \$206,500 |
| San Bernardino Flood Control District | 1 | Comm. Equipment | \$33,810 |
| California Geological Survey | 2 | Mapping | \$0 |
| Sacramento Metro Fire Department | 6 | ER Plans | \$0 |



Network Analysis

A study of the entire Southern California network must be done as require in grant from DWR.

A team was made up in order to perform the study with OneRain, Don Van Wie and David Curtis. The contract is in place with the consulting team and they are moving forward with the study.



The network analysis will establish a plan for not only this phase (*the backbone*) of the migration to ALERT2 but the entire transition plan into the ALERT2 protocol for Southern California.



Moving Forward

Once the needed equipment has been determined and bought an installation plan will have to be made.

A training on ALERT2 will be held as part of the DWR FERG in Southern California.

The new equipment will be installed with the new ALERT2 protocol being implemented.

At future conferences you should be able see at least one if not more presentations on how the whole implementation happened and what equipment was installed for the new ALERT2 system of Southern California.





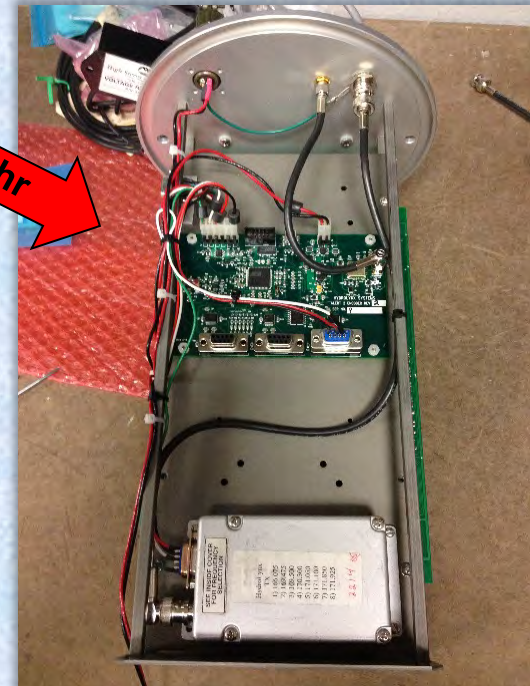
Upgrading to ALERT2 or New Equipment

What method or combination of methods will be used to upgrade the current transmitters in the field to ALERT2?

If upgrading will you be doing the upgrades yourself, contracting the work out or send the transmitters to the vendor to be upgraded? What would be the most cost effective way to upgrade your system?



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New ALERT2 Test Equipment Will be Needed



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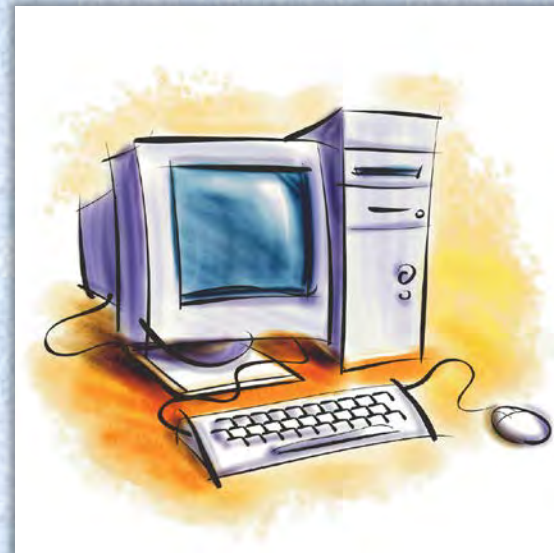




Tools to Aid in the Transition

Running elevation profiles could be very helpful in laying out how many transmitters could go through a possible concentrator site locations.

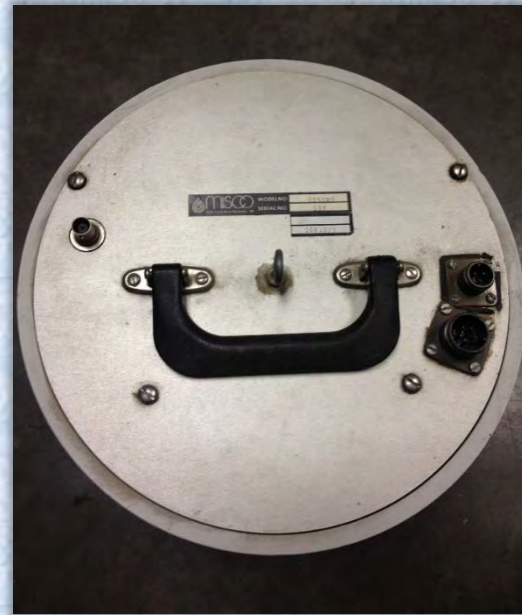
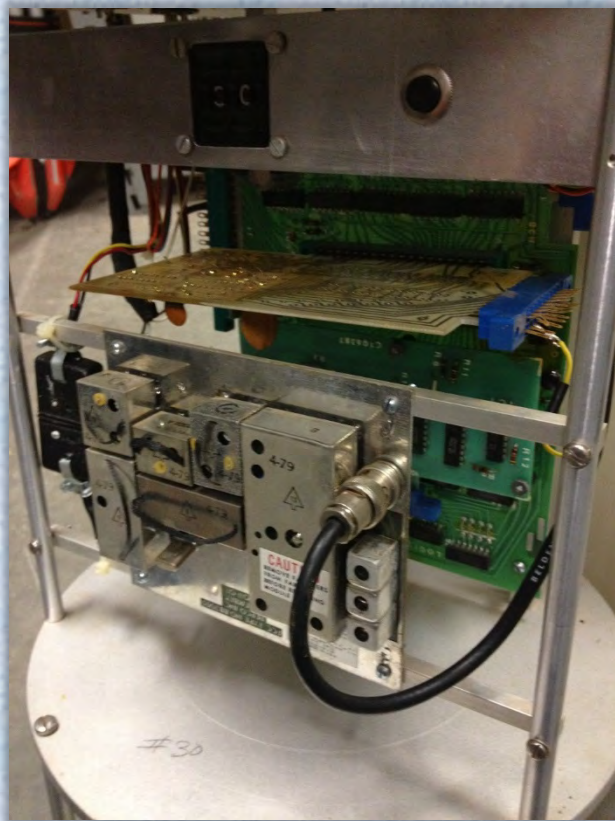
A software program to track site TDMA transmit times.





So... Time to Upgrade?

If your transmitter looks like this talk to Chris Roark he can upgrade it for you.





Any Answers



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ALERT2 Schematic

