

Auxiliary Communications Emergency Services "ACES"

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Your Presenters

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What Is The Project?

- The Santa Clara County Fire Department (SCCFD), in cooperation with the Cupertino Amateur Radio Emergency Services (CARES) and Los Altos Prepare has:
 - Purchased and is installing amateur radio equipment in fire stations in Cupertino and Los Altos.
 - Working on a volunteer program to activate and operate these radio stations during a disaster response.

Why Is This Project Being Done?

- To respond to the needs of the community post disaster more effectively
- To be ready to interact with the public at locations (fire stations) where we can expect people to go for assistance
- To make the best use of available facilities post disaster with highly skilled RACES volunteers

Background

- Planned deployment of RACES volunteers –
 Where can we expect to find our people?
 - In the field at various locations
 - At the City Emergency Operations Center (EOC)
 - Not at fire stations, until now
- Problem fire stations are natural locations for people to go to after a disaster and typically they will be vacant

What Is Going On At The Fire Stations?

- The fire crews won't be there.
 - Especially after an earthquake, the crews will leave
 - Fire crews will do windshield surveys of their assigned area, respond to emergencies, and the stations will be vacant
- People will expect some kind of services at fire stations
 - They may need help, perhaps urgently
 - Creates a very bad PR situation if help is needed and nobody is there to provide it

The Solution To The Problem

- Create a system where CERT & RACES volunteers can access the fire stations
- Use equipment installed there for their use ahead of time
- Include packet radio capabilities
- Use power off the grid, with battery/generator backup
- Design the radio package so that it is portable

Project Goals

- Install and/or upgrade amateur radio equipment at five fire stations in Cupertino and Los Altos
 - Radios
 - Laptop computer
 - Printer
 - Coaxial cable
 - Antennas

Project Goals

- Train and organize CERT and RACES volunteers who will form a new and distinct volunteer group under the direction and authority of the SCCFD
 - Auxiliary Communications Emergency Services (ACES)
- Background check and fingerprint volunteers
- Provide volunteers the means to enter and use SCCFD facilities when activated

Chronology

- October 2000 SCCFD & CARES sign an MOU to do what is being accomplished now
- 2013 Informal conversations begin between SCCFD & CARES personnel to design and implement the project
- January 2014 SCCFD leadership approved and funded the project

Chronology (cont.)

- January 2014 to date Design, fund, purchase, and build out the equipment packages
- December 2014 Cupertino fire station package is built, and antenna upgrades are started
- As of January 2016, 6 systems have been built
- Pending Cabling/Antennas at some stations, Implementation of volunteer organization and training

Response Procedures/Methods Of Operation

- ACES volunteers will activate at the same time as SCCFD personnel and RACES volunteers
- Community Emergency Response Team (CERT) volunteers will be part of this system
- CERT volunteers will interact with people who come to the fire stations for help
- RACES volunteers will manage voice and data communications equipment

Further Considerations

- We all know that major disasters only happen on sunny days with mild temperatures
- WRONG the next disaster could easily happen during one of our frequent rainy days
- Of course, it's also possible that our next quake could happen during a July or August heat wave when the temps are near or above 100°

Fire Stations Are Good Places To Go

- We can anticipate people going there anyway
- They provide the volunteers a greater sense of security – it's nice to be able to close the door if need be
- It's a good volunteer workplace if it's pouring down rain, cold, or hotter than hot

Equipment Technology

0 2 4 6 8 10 12 14 16 18 20 22 24 26

Santa Clara County Fire Volunteer Comm Package

Drawings

Open Questions, ToDos

- 1. .
- . .
- 3. 1

REVISION	DATE	AUTHOR	
1.0	11/9/2014	J Oberhofer	Ok
1.1	12/05/14	J Oberhofer	As Built



Fire Station Communications



Fire Station Communications



Cupertino Station #71



Seven Springs Station #72



Seven Springs Station #72



Seven Springs Station #72



Monta Vista Station #77



Monta Vista Station #77



"Build Party"



"Build Party"



Next Steps

- Installation of similar equipment in all SCCFD stations
 - Cupertino was been the original beta city for this project
 - It has expanded to Los Altos
 - After work in those two cities is complete, the SCCFD will evaluate the project, and decide if it should be extended throughout all served cities
- Recruitment and training of local volunteers in each of the cities served by the SCCFD to work in fire stations during a disaster response

