

# SANTA CLARA COUNTY LOCAL FIRE SERVICE AND RESCUE MUTUAL AID PLAN

## APPENDIX 1 - RADIO COMMUNICATIONS PLAN

Revised Date: March 2013

Next Revision Date: March 2015

### A. Purpose of the Plan

1. To provide for the usage of available radio frequencies by the fire service during periods of major emergencies where multi-fire agencies are assigned to the incident.
2. To address the following type of multi-agency responses:
  - a. Automatic mutual aid between two departments on first-alarm assignments.
  - b. Mutual aid responses to large multi-agency incidents such as major fires, explosions, hazardous materials incidents, multi-casualty incidents, and wildland fires within Santa Clara County.
  - c. Major incidents outside of Santa Clara County in a strike team response.
3. No fire agency may transmit on any radio frequency without a valid license issued by the Federal Communications Commission (FCC) for the specific frequency, or an authorization issued by the agency holding the FCC license. Nothing within this plan authorizes the use of any radio frequency not licensed to the agency or specifically authorized by the licensee.
4. Agency dispatch frequencies shall not be used for tactical purposes unless specifically authorized by the Agency.

### B. Definitions

The following definitions of communication terms shall apply as designated.

1. **DISPATCH (Primary)** communications shall mean those radio communications typically used to alert and dispatch resources to incidents and coordinate with stations for move up and coverage of stations. Dispatch communications typically includes radio traffic and communications for single response incidents for the Incident Commander and Communications Center to use to communicate. Dispatch communications may also be used as a travel frequency for mutual aid resources to coordinate their response to an incident or cover location.
2. **TRAVEL** communications shall mean those radio communications from units responding to an incident outside of their own jurisdiction and the Communications Center or Incident Commander responsible for the incident. Typical communications would be those advising of response, ETA's, enroute changes, and similar information affecting the unit's ability to reach its destination and to return to its own jurisdiction.
3. **COMMAND** communications shall mean those radio communications between the Incident Commander, Command and General Staff, various subordinate team

leaders, and the Incident Communications Center pertaining to command and control of the incident. This does not include communications between the team leaders and their respective assigned units.

4. **TACTICAL** communications shall mean those radio communications between the team leaders and their respective assigned units for the purpose of carrying out their assigned missions. Tactical frequencies are used to coordinate resources assigned to a function or fire ground operations for purposes of coordination to meet incident objectives. Tactical frequencies are used to reduce operations traffic on the Command Frequency. Tactical frequencies are typically not monitored by Communications Centers.
5. **AIR/GROUND** communications shall mean those radio communications between aircraft assigned to the incident and a team leader or higher staff on the ground. Communications between aircraft and other individual ground units could occasionally occur under unusual circumstances. Routine Ground to Ground communications are not allowed.

### **C. Available Radio Frequencies, Their Limitations and Recommended Order of use**

1. Frequencies available for **TRAVEL** communications for Mutual Aid incidents within Santa Clara County:
  - *Primary* dispatch channel of incident owner
  - White 1 - \* Mutual Aid Intersystem
  - Command (CMD) channel of incident owner
  - Out of County: California Emergency Services Radio System (CESRS)

The California Emergency Services Radio System (CESRS) may now be utilized as a travel net. Strike Teams or other resources in travel status should use the "CESRS Direct" talk-around channel for line-of-sight communications. Use of CESRS repeaters is limited to those circumstances when users are not able to make contact using CESRS Direct.

*\*On December 31, 2012 the wideband use of VHF public safety frequencies, including WHITE 1, (will become VFIRE21), will no longer be allowed by the FCC. All entities licensed to use the WHITE 1 channel must apply for a modification to their existing FCC license(s) as soon as possible in order to be compliant with the new narrowband licensing requirements. A new narrowband license will not automatically be issued by the FCC*

2. Frequencies available for **COMMAND (CMD)** communications for Mutual Aid incidents within Santa Clara County:
  - Command (CMD) channel of incident owner
  - XSC Command (CMD) 20 Countywide Mutual Aid Command Channel (Formerly known as County Blue)
  - White 1 Mutual Aid Intersystem
3. Frequencies available for **TACTICAL (TAC)** communications for incidents within Santa Clara County:
  - Tactical channel(s) of incident owner
  - XSC TAC 40 Countywide Mutual Aid Tactical Channel (Formerly known as County Yellow)
  - VFire 22 Mutual Aid Intersystem (Formerly known as White 2)
  - VFire 23 Mutual Aid Intersystem (Formerly known as White 3)
  - CALCORD Interservice coordination\*

*\*The CALCORD radio channel is available for use as a "Scene-of-Action" coordination channel between command units of law enforcement, fire, emergency medical, emergency services, public works, and similar agencies operating at the scene of a major emergency or disaster. This is not available for communications between units of similar agencies; i.e., fire-to-fire, police-to-police, etc.*

4. **CAL FIRE** statewide frequencies may be installed in local fire agency radios, but may **only** be used on a multi-agency incident involving CAL FIRE or when CAL FIRE has given **prior** authorization. Authorization for such use extends only to the individual incident for which it has been granted.
5. **AIRGUARD** - This frequency is monitored at all times by all USFS, CAL FIRE and BLM aircraft and forest agency dispatch/ command centers. The frequency is restricted and to be used only by ground personnel for Ground-to-Air emergency Contact, including emergency hailing by crews in critical danger.
6. **REDNET** - This is a lowband radio frequency that interconnects all of the communications centers in Santa Clara County. It is used to request and verify mutual aid resources and broadcast other information that is of interest to all fire agencies.

## **D. Communications Procedures**

1. **ACTIVATION** - The Local Mutual Aid Plan may be activated by a fire officer of any of the participating fire departments, following that department's procedures.
2. Requests shall indicate:
  - a. Agency(s) requested (Name the Public Safety Answering Point [PSAP] for the agency needed on RED NET)
    - Example; "County Fire, Santa Clara City, San Jose Fire - Mountain View Fire with mutual aid request." Wait for the agency requested to acknowledge they are receiving the radio traffic. Once the agencies have acknowledged then continue with the activation request.
  - b. Requesting jurisdiction.
  - c. Incident Name, Incident Type
  - d. Jurisdiction Incident Number
  - e. Reporting location-Fire Department Zone Number from appropriate Mutual Aid Sheet in Appendix 3.
  - f. Thomas Brothers map location
  - g. Frequency Assignments
    - Travel Frequency.
      - Example; " Travel Contact, Santa Clara County on White 1"
    - Command Frequency
    - Tactical Frequency
  - h. Resources requested
  - i. Probable assignment
3. Units dispatched will respond on the appropriate mutual aid frequency using "**Clear Text**," acknowledging response and destination. Example: "Santa Clara County on White 1, Palo Alto Engine One responding to rendezvous area at Foothill College, El Monte Fire Station."
4. **Portable Radio Identification** - Individual personnel on portable radios will be identified by position on the unit, i.e.; by department, vehicle type, unit number and position. Example:

“Gilroy Engine 1, Firefighter, charge the line”  
“Gilroy Engine 1, Firefighter 2, hold your position”  
“Gilroy Engine 1, Captain, what is your location?”

5. Mutual aid resources will be activated in sequence as listed in **RESOURCE ORDER**. (See Appendix 3)
6. Mutual aid resources will be dispatched in one or more of the following resource configurations:
  - a. **Single Resource** - An individual piece of equipment and its personnel complement, or an established crew or team of individuals with an identified work supervisor that can be used on an incident.
  - b. **Alarm Assignment** - Two (2) engines, one (1) truck, one (1) chief officer.
  - c. **Strike Team** - Specified combinations of the same kind and type of resources, with common communications and a leader. Usually, Five (5) engines, one (1) chief officer.
  - d. **Task Force** - A group of resources with common communications and a leader that may be pre-established and sent to an incident, or formed at an incident.
7. The **maximum resource commitment** of each department is listed in *Appendix 3*. The maximum commitment (MAX) shall be interpreted as the total combination of fire apparatus resources available from a single jurisdiction. Chief officers do not count as a fire apparatus resource.

*Example: San Jose MAX = 6. Combinations may include: Four (4) engines, two (2) trucks; Three (3) engines, two (2) brush patrols, one (1) water tender; etc.*

8. **Automatic aid response** between two departments on first-alarm assignments is considered a single department alarm and all radio communications should take place on a radio frequency utilized by the department in whose jurisdiction the alarm is located.

Example: "Morgan Hill (South County Fire), Gilroy Engine 1 responding."

The departments involved should provide a procedure for such response including identifying the radio frequencies involved. Where one of the departments involved does not have capability for operating on the other's day-to-day channels, and cannot reasonably obtain the channel, then the following channels should be used in the order stated:

XSC Command (CMD) 20 Countywide Mutual Aid  
XSC Tactical (TAC) 40 Countywide Mutual Aid  
White 1 Mutual Aid Intersystem  
VFire 22 Mutual Aid Intersystem (Formerly known as White 2)

VFire 23 Mutual Aid Intersystem (Formerly known as White 3)

9. The communications center for the jurisdiction having the incident will handle emergency radio communications for the incident.
10. Apparatus shall report status to requesting jurisdiction at time of response via assigned travel frequency.

Example: "Gilroy White, South County Engine 1 responding."

11. The **Santa Clara County Area Fire Coordinator** shall be notified and updated on incident status through Santa Clara County Communications when five (5) or more mutual aid resources are requested. It shall be the Coordinator's responsibility to assemble additional resources in the event available local resources are depleted.
12. All requests for strike teams to or from other counties are made via the Area Fire Coordinator through Santa Clara County Communications.
13. Santa Clara County Communications will provide communications during travel to assembly for strike teams leaving the County.

**E. Radio Reprogramming**

Radio reprogramming, channel name changes, and the addition of radio channels will be coordinated to minimize the impact to entire operational area. The renaming of radio channels and resultant reprogramming will be finalized each year between February 1 and March 31. All changes will become effective each year on the first Monday in April.

### Santa Clara County Local Agency Fire Frequencies

Agency	Frequency Name	Frequency Use	Receive Frequency	CTCSS Tone Protection	Transmit Frequency	CTCSS Tone Protection	Band-Width
<b>Cal - Fire</b> <sup>2</sup>	Morgan Hill	Primary	151.4450 <sup>1</sup>	156.7	159.3450	Varies <sup>2</sup>	N
	CDF Command 1	Command	151.3550	CSQ	159.3000	100.0	N
	CDF Command 2	Command	151.2650	CSQ	159.3300	114.8	N
	CDF Command 4	Command	151.4000	103.5	159.3750	167.9	N
	CDF Tactical 2	Tactical	151.1600	192.8	151.1600	192.8	N
	CDF Tactical 6	Tactical	151.3250	192.8	151.3250	192.8	N
	CDF Tactical 9	Tactical	151.3850	192.8	151.3850	192.8	N
	CDF Tactical 10	Tactical	151.4000	192.8	151.4000	192.8	N
	CDF Air to Ground <sup>4</sup>	Tactical	151.2200	CSQ	151.2200	CSQ	N
	Air Guard <sup>5</sup>	GUARD	168.6250	CSQ	168.6250	110.9	N
<b>Santa Clara</b>	County Fire	Primary	154.2500	162.2	158.3550	162.2	N
<b>County</b>	County Command 21	Command	153.9050	192.8	153.9050	192.8	N
<b>Fire Department</b>	County Command 22	Command	155.9850	179.9	158.9550	167.9	N
	County Command 23	Command	154.1450	192.8	154.1450	192.8	N
	County Command 24	Command	154.4000	110.9	154.4000	110.9	N
	County Tactical 41	Tactical	154.1750	179.9	154.1750	179.9	N
	County Tactical 42	Tactical	154.2050	179.9	154.2050	179.9	N
<b>Gilroy Fire Department</b>	Gilroy Fire	Primary	154.3400 <sup>1</sup>	162.2	155.8950	162.2	N
<b>Milpitas Fire Department</b> <sup>3</sup>	Milpitas Fire	Primary	460.625	179.9	465.625	110.9	N
	Milpitas Tactical 2	Tactical	460.5750	179.9	465.5750	110.9	N
<b>Mountain View Fire Department</b>	Mtn. View Fire	Primary	154.0250	110.9	154.9950	110.9	N
	Mtn. View Command 18	Command	154.8300	141.3	155.6100	141.3	N
	Mtn. View Tactical 38	Tactical	158.8650	110.9	158.8650	110.9	N
<b>Palo Alto Fire Department</b>	Palo Alto Fire	Primary	153.7700	110.9	154.4450	110.9	N
	Palo Alto Command 25	Command	154.0550	110.9	156.0600	110.9	N
<b>San Jose Fire Department</b>	San Jose Fire	Primary	155.0250	173.8	154.0100	173.8	N
	San Jose Command 11	Command	155.9250	123.0	154.3550	123.0	N
	San Jose Command 12	Command	153.9800	151.4	155.8200	151.4	N
	San Jose Command 13	Command	154.1150	136.5	155.8800	136.5	N
	San Jose Command 14	Command	155.1300	97.4	150.7750	97.4	N

SANTA CLARA COUNTY  
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Agency	Frequency Name	Frequency Use	Receive Frequency	CTCSS Tone Protection	Transmit Frequency	CTCSS Tone Protection	Band-Width
San Jose Fire	San Jose Command 15	Command	155.1300	167.9	150.8050	167.9	N
Department (Con't)	San Jose Tac 31	Tactical	154.4300	118.8	154.4300	118.8	N
	San Jose Tac 32	Tactical	154.3100	127.3	154.3100	127.3	N
	San Jose Tac 33	Tactical	151.0400	103.5	151.0400	103.5	N
	San Jose Tac 34	Tactical	150.7750	91.5	150.7750	91.5	N
	San Jose Tac 35	Tactical	155.1300	229.1	155.1300	229.1	N
	San Jose Tac 36	Tactical	150.8050	225.7	150.8050	225.7	N
Santa Clara Fire Dept. <sup>3</sup>	Santa Clara Fire	Primary	153.9650 <sup>6</sup>	156.7	800 MHz		N
South Santa Clara County Fire District	Morgan Hill	Primary	151.4450 <sup>1</sup>	156.7	159.3450	Varies <sup>2</sup>	N
	So. County Command 17	Command	151.1225	156.7	159.1650	167.9	N
	So. County Command 19	Command	151.1225	156.7	159.1650	100.0	N
Sunnyvale D.P.S. <sup>3</sup>	Sunnyvale Fire	Primary	482.7125	141.3	485.7125	141.3	N
	Fire Tac	Tactical	482.4125	141.3	485.4125	141.3	N

Notes:

1. Receive frequency may also be used as Car-to-Car or Fire ground tactical frequency.
2. Typically utilizes tones 2, 4 and 5 of the Statewide Standard Tones.
3. Milpitas', Santa Clara's, and Sunnyvale's frequencies are not available on most fire department radios.
4. Air to Ground is restricted and to be used only by ground personnel for Ground-to-Air tactical contact
5. AIRGUARD is restricted and to be used only by ground personnel for Ground-to-Air emergency Contact
6. Simulcast VHF channel for traffic on Santa Clara trunked system

**Other Available Frequencies**

Frequency Owner	Frequency Name	Frequency Use	Receive Frequency	CTCSS Tone Protection	Transmit Frequency	CTCSS Tone Protection	Band-Width
Santa Clara	XSC Command 20	Command	153.8450	CSQ	153.8450	CSQ	W
County	XSC Tactical 40	Tactical	153.8300	CSQ	153.8300	CSQ	W
Cal EMA	White 1	Command / Travel	154.280	CSQ	154.280	CSQ	W
	CESRS	Travel	153.7550	CSQ	154.9800	Varies	N
	CESRS Direct	Travel	153.7550	CSQ	153.7550	CSQ	N
	VFire 22	Tactical	154.2650	CSQ	154.2650	CSQ	N
	VFire 23	Tactical	154.2950	CSQ	154.2950	CSQ	N
	CALCORD	Tactical	156.075	CSQ	156.075	CSQ	W



### Standard CTCSS tones for repeater access

Federal and State of California agencies use the following sixteen standard tones for repeater access. These must be included for repeater use. These tones must be programmed on the transmit side *only* of mobile and portable radios.

1	110.9	2	123.0	3	131.8	4	136.5
5	146.2	6	156.7	7	167.9	8	103.5
9	100.0	10	107.2	11	114.8	12	127.3
13	141.3	14	151.4	15	162.2	16	192.8

### California Statewide Channel Plan

For radio communications outside of Santa Clara County please see the FIRESCOPE Radio Communications Guidelines MACS 441-1 dated April 1, 2009. This FIRESCOPE document is available as a free download at [www.firescope.org](http://www.firescope.org)  
It is also available at <http://santaclaracounty-xsc.org>

Further reference for available channels and use guidelines can be found in California Interoperability Field Operations Guide (Cal-IFOG) available from Cal EMA.

**48 Channel Radio Plan Guideline (UHF/800 Agency – Mutual Aid Only)**

Zone A Dispatch/Mutual Aid	Zone B Command	Zone C Tactical
1 – XSCC20 (County Blue)	1 – PAFC25 (PA Cmd 2)	1 – MTVT38 (MV Tac 1)
2 – XSCT40 (County Yellow)	2 – MTVC18 (MV Cmd 2)	2 – SJST31 (SJ Tac 1)
3 – WHITE1	3 – SJSC11 (San Jose Cmd 1)	3 – SJST32 (SJ Tac 2)
4 – VFIR22	4 – SJSC12 (San Jose Cmd 2)	4 – SJST33 (SJ Tac 3)
5 – VFIR23	5 – SJSC13 (San Jose Cmd 3)	5 – SJST34 (SJ Tac 4)
6 – CALCRD (CALCORD)	6 – SJSC14 (San Jose Cmd 4)	6 – SJST35 (SJ Tac 5)
7 – BAYMAX (BayMACS)	7 – SJSC15 (San Jose Cmd 5)	7 – SJST36 (SJ Tac 6)
8 – PAF (Palo Alto Dispatch)	8 – Reserved for SJSC16	8 – CNNT41 (Co. Fire Tac 1)
9 – MTV (Mt View Dispatch)	9 – CNTC21 (Co. Fire Cmd 1)	9 – CNNT42 (Co. Fire Tac 2)
10 – SJS (San Jose Dispatch)	10 – CNTC22 (Co. Fire Cmd 2)	10 – CDF T2 (CDF Tac 2)
11 – CNT (Co. Fire Dispatch)	11 – CNTC23 (Co. Fire Cmd 3)	11 – CDF T6 (CDF Tac 6)
12 – GIL (Gilroy Dispatch)	12 – CNTC24 (Co. Fire Cmd 4)	12 – CDF T9 (CDF Tac 9)
13 – SCU L4 (Morgan Hill T4)	13 – SCCC17 (S.Co.Cmd1 T7)	13 – CDFT10 (CDF Tac 10)
14 – SCU L5 (Morgan Hill T5)	14 – SCCC19 (S.Co.Cmd1 T9)	14 – CDF AG (CDF Air/Gnd)
15 – Local Choice	15 – CDF C2 (CDF Cmd2 T11)	15 – Local Choice
16 – CDF C1 (CDF Cmd 1 T9)	16 – CDF C4 (CDF Cmd 4 T7)	16 – GUARD (Air Guard)

**48 Channel Radio Plan Guideline (VHF Agency)**

Zone A Dispatch/Mutual Aid	Zone B Command	Zone C Tactical
1 – XXX (Home Dispatch)	1 – XXX (Home Dispatch)	1 – XXX (Home Dispatch)
2 – XSCC20 (County Blue)	2 – PAFC25 (PA Cmd 2)	2 – MTVT38 (MV Tac 1)
3 – XSCT40 (County Yellow)	3 – MTVC18 (MV Cmd 2)	3 – SJST31 (SJ Tac 1)
4 – WHITE1	4 – SJSC11 (San Jose Cmd 1)	4 – SJST32 (SJ Tac 2)
5 – VFIR22	5 – SJSC12 (San Jose Cmd 2)	5 – SJST33 (SJ Tac 3)
6 – VFIR23	6 – SJSC13 (San Jose Cmd 3)	6 – SJST34 (SJ Tac 4)
7 – CALCRD (CALCORD)	7 – SJSC14 (San Jose Cmd 4)	7 – SJST35 (SJ Tac 5)
8 – BAYMAX (BayMACS)	8 – SJSC15 (San Jose Cmd 5)	8 – SJST36 (SJ Tac 6)
9 – XXX (Other Dispatch 1)	9 – Reserved for SJSC16	9 – CNNT41 (Co. Fire Tac 1)
10 – XXX (Other Dispatch 2)	10 – CNTC21 (Co. Fire Cmd 1)	10 – CNNT42 (Co. Fire Tac 2)
11 – XXX (Other Dispatch 3)	11 – CNTC22 (Co. Fire Cmd 2)	11 – CDF T2 (CDF Tac 2)
12 – XXX (Other Dispatch 4)	12 – CNTC23 (Co. Fire Cmd 3)	12 – CDF T6 (CDF Tac 6)
13 – SCU L4 (Morgan Hill T4)	13 – CNTC24 (Co. Fire Cmd 4)	13 – CDF T9 (CDF Tac 9)
14 – SCU L5 (Morgan Hill T5)	14 – SCCC17 (S.Co.Cmd1 T7)	14 – CDFT10 (CDF Tac 10)
15 – CDF C1 (CDF Cmd 1 T9)	15 – SCCC19 (S.Co.Cmd1 T9)	15 – CDF AG (CDF Air/Gnd)
16 – CDF C2 (CDF Cmd2 T11)	16 – CDF C4 (CDF Cmd 4 T7)	16 – GUARD (Air Guard)

- Six character display names shown.
- XSC C20, XSC T40, WHITE1 and CALCRD remain wideband.
- CDF Command 1, 2 and 4 are Loma Prieta or Copernicus tones.
- Zone A, Channel 1 replaces one of the five VHF dispatch channels.
- VHF agencies may program their home dispatch in Ch16 of each zone instead of three other channels of their choice.
- XXX denotes local choice for dispatch channels

## Available Channels and Recommended Order of Use Reference Guide

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### **Travel**

#### In County

Dispatch Channel of Incident Owner

White 1

Command Channel of Incident Owner

#### Out of County

California Emergency Services Radio System (CESRS and CESRS Direct)

*The use of any frequency outside the agency's normal, licensed area of operation is prohibited by FCC rules and will likely cause harmful interference to other users. (e.g. Strike Teams using a local tactical channel in a distant part of the state).*

*Source: Strike Team Leader Manual*

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### **Command**

Command Channel of Incident Owner

XSC Command 20 (Formerly County Blue)

White 1 Mutual Aid Intersystem

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### **Tactical**

Tactical Channel(s) of Incident Owner

XSC Tactical 40 (Formerly County Yellow)

VFire 22 (Formerly White 2)

VFire 23 (Formerly White 3)

CALCORD

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### **Additional Frequencies Available for Major Incidents**

(Require Cal Fire Authorization)

Cal Fire Command 1

Cal Fire Command 2

Cal Fire Command 4

Cal Fire Tactical 2

Cal Fire Tactical 6

Cal Fire Tactical 9

Cal Fire Tactical 10

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### **Air/Ground**

CDF Air/Ground

AIRGUARD (Air Safety Guard)

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**CALIFORNIA EMERGENCY SERVICES RADIO SYSTEM (CESRS)**  
 Mountain Top Location and Tone (03/08/2013)

Site Location	County	CTSS Tone	CAL FIRE Unit #	
			Channel # (Group 3)	Name w/ Call Sign
Mt. Zion	Amador	2		
Telegraph Hill +	Tuolumne	15	27	AEU Camino
Black Mt.	Fresno	4	35	BDU San Bernardino
Round Mt.	Kern	5	46	BEU Monterey
Mt. Lukens	Los Angeles	1	21	BTU Oroville
Mt. Hauser	Los Angeles	4	17	CZU Felton
Loma Prieta Peak	Santa Clara	1	43	FKU Fresno
Pacheco Peak +	San Benito	13	12	HUU Fortuna
Williams Hill	Monterey	2	22	LMU Susanville
Mt. Lowe	San Luis Obispo	3	14	LNU St. Helena
Red Mt.	Ventura	4	11	MEU Howard Forrest
Strawberry Peak	San Bernardino	2	42	MMU Mariposa
Cuyamaca Peak	San Diego	3	33	MVU Monte Vista
Bloomer Mt.	Butte	1	23	NEU Grass Valley
Sugarloaf Mt.	Shasta	2	31	RRU Perris
Antelope Mt.	Siskiyou	1	16	SCU Morgan Hill
Soda Creek Ridge +	Siskiyou	12	24	SHU Redding
Hatchet Mt.	Shasta	3	26	SKU Yreka
Likely Mt.	Lassen	1	34	SLU San Luis
Shaffer Mt.	Lassen	3	44	TCU San Andreas
Hough Mt.	Plumas	4	25	TGU Red Bluff
Boreal Ridge	Nevada	3	41	TUU Visalia
Mt. St. Helena	Sonoma	5	<b>CalFIRE CTCSS Tones</b>	
Mt. Tamalpais	Marin	3	T1=110.9 Hz	T9=100.0 Hz
Mt. Diablo	Contra Costa	6	T2=123.0 Hz	T10=107.2 Hz
Laughlin Ridge	Mendocino	4	T3=131.8 Hz	T11=114.8 Hz
Cahto Peak +	Mendocino	14	T4=136.5 Hz	T12=127.3 Hz
Mt. Pierce	Humboldt	2	T5=146.2 Hz	T13=141.3 Hz
Red Mt.	Del Norte	1	T6=156.7 Hz	T14=151.4 Hz
Scout Peak	El Dorado	4	T7=167.9 Hz	T15=162.2 Hz
Pine Grove	Lyon (Nevada)	2	T8=103.5 Hz	T16=192.8 Hz
Sherwin Summit	Mono	1		

Base/Mobile/Portable Radio transmit frequency - 154.980 MHz and receive frequency - 153.755 MHz

+ These sites have been provided by CalFIRE.