



Multi-Agency Coordination System

Radio Communications Guidelines

MACS 441-1

JANUARY 1, 2025

This document contains information relative to the Incident Command System (ICS) component of the National Interagency Incident Management System (NIIMS). This is the same Incident Command System developed by FIREScope.

Additional information and documentation can be obtained from the following resources:

OES FIREScope OCC
Document Control
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Riverside, CA 92518
(951) 782-4174
FIREScopefog@caloes.ca.gov
<https://firescope.caloes.ca.gov>

BLUE Font indicates 2025 revisions from previous editions.

The information contained in this document has been approved by the Fire and Rescue Service Advisory Committee/FIREScope Board of Directors for application in the statewide California Fire and Rescue Mutual Aid System. This material is a development of the FIREScope Program.

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FIRESCOPE RADIO COMMUNICATIONS GUIDELINES

FIRESCOPE Radio Communications Guidelines are derived from the Cooperative Agreements for Use of Radio Frequencies between fire service agencies of California allowing for mutual use of radio channels during mutual aid efforts. VHF high band is the default radio frequency band utilized by the California fire service.

Effective January 2024, agencies will be required to provide a mobile and portable radio in all responding units with a channel capacity of at least 400 channels. The mobile radio requirement does not apply to personnel responding in rental or personal vehicles, or those engaged in support functions. It is recommended that responding Overhead personnel have at minimum a 400-channel capable portable radio with recommended channel load and/or ability to be cloned at incident.

All channels in the FIRESCOPE STATEWIDE VHF channel plan are required in at least one Mobile and one Portable VHF radio per responding unit utilized by fire service agencies providing mutual aid in California.

Fire service agencies whose normal dispatch system is on a band other than VHF high band should ensure that their mobile and portable radios and dispatch centers are properly programmed to operate on the UHF, 700 and 800 MHz interoperability channels contained within the FIRESCOPE STATEWIDE CHANNEL PLAN.

Legacy BK GPH/DPH radios are nearing end-of-life. Support and repair at incidents will be limited by parts availability. Cloning will still be available on a limited basis.

IMPORTANT COMMUNICATIONS ISSUES

Travel Channel

The **C**alifornia **E**mergency **S**ervices **R**adio **S**ystem (CESRS) is the only VHF statewide channel authorized for use as a Travel Channel only within the State of California. As a Travel Channel, CESRS must be used in the Direct Mode (no tones) for line-of-sight travel communications. Agencies with a need to contact a State ECC or OES resources during an emergency are authorized to use Repeat Mode.

7DATA69D and 7DATA89D have been approved for nationwide use as travel channels. 7DATA69D is primary for Fire/EMS and 7DATA89D is primary for Law Enforcement. Agencies may add a notation to the end of the channel name identifying the usage as long as the original name precedes the notation (e.g. 7DATA69D TRVL).

Note: CESRS and CESRS D are authorized for use as a travel channel ONLY within the state of California.

Narrowbanding

ALL VHF and UHF radios **MUST** be both FCC Part 90 and narrowband compliant.

Federal Frequency Use

All radios utilizing Federal frequencies must be National Telecommunications and Information Administration (NTIA) compliant. Radios are approved for use but may not be supported at incident. (i.e., programming, repair, battery replacement, etc.)

GUIDELINES

1. While numerous radio channels/talkgroups can be pre-programmed into radios, it is important to note that in order to legally transmit on those channels/talkgroups (including channels listed in the FIREScope STATEWIDE CHANNEL PLAN) the user: 1) must be authorized by the FCC or NTIA to transmit on those frequencies, or 2) must have a radio use agreement or Memorandum of Understanding with the agency which is licensed for the channels, or 3) must be assigned to an incident with that channel/talkgroup listed on the Incident Radio Communications Plan (ICS Form 205).
2. Any agency requesting mutual aid will advise responding agencies of an initial contact channel for the incident. Generally, the initial VHF contact channel will be VFIRE21. Incident Communications Centers (ICC's) and Staging Area Managers should monitor VFIRE21 or another specified initial contact channel to assist resources arriving at the incident. For incidents using 400/700/800 MHz, the initial contact channel should be UCALL40, 7CALL50 or 8CALL90.
3. Local policy will dictate radio channel/talkgroup assignments for an incident until a Communications Unit Leader (COML) establishes the Incident Radio Communications Plan (ICS Form 205).
4. The Incident Commander or, if assigned, the Communications Unit Leader is responsible for managing assigned radio channels/talkgroups and must clear the use of local, state and federal frequencies with the controlling agencies prior to inclusion in an Incident Radio Communications Plan (ICS Form 205).
5. Clear text (plain English) should be used for all communications. CODES SHALL NOT BE USED! Standardized channel/talkgroup names should be stated, e.g. "VFIRE22", or "NIFC Tac 2". Channel/talkgroup numbers corresponding to how a specific radio is programmed should not be used except if published in an IAP (e.g. "Channel 1", or "Channel A14".)
6. When calling another unit/ICS position, the standard is to identify who you are calling first, followed by your call sign (e.g. "Engine 211, Battalion 217" or "Division B, Strike Team 6412C"). Recognize that on large mutual aid incidents, there may be several units with the same radio ID. In those cases, the agency name should also be used (e.g. Oceanside Engine 211, Oceanside Battalion 217").
7. Land Mobile Radio (LMR) data communications [i.e. automated or push button status

tracking for “computer aided dispatch” (CAD) systems] **SHALL NOT** be used outside the local agency’s normal area of operation.

8. Radio programming that enables data signaling (e.g. MDC1200 push-to-talk identification) is prohibited on interoperability channels (e.g. VFIRE22, VFIRE23, etc.).
9. Vehicular repeater systems (mobile extenders) **SHALL NOT** be used outside the local agency’s normal area of operation.
10. The use of gateways (including portable, mobile or fixed) shall be limited to the smallest geographical area of coverage to meet the temporary needs of the incident. Gateways shall only be used on channels/talkgroups that are specifically licensed for that type of operation (e.g. temporary mobile relay) and must be specifically authorized based upon an approved Incident Radio Communications Plan (ICS Form 205) or be recognized as a fixed gateway, included in the California Statewide Communications Interoperability Plan (Cal-SCIP).
11. Family Radio Service (FRS) or any non-narrow band compliant radio, are **PROHIBITED** from use on Federal and State of California incidents. Use of any non-public safety radio (e.g. FRS, GMRS, etc.) or use of a frequency/talkgroup not identified on the Incident Radio Communications Plan (ICS Form 205) is prohibited.
12. 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 jurisdiction channel in a distant part of the state). The FCC will enforce this rule.
13. Gateway and interop channel usage shall be coordinated through Cal OES CDO.

To receive authorization, fill out the online form available at the address below.

[California Interoperability Frequency Request Form](#)

<https://tinyurl.com/CA-Introp-Req>

For additional assistance contact the OES Tactical Communications Duty Officer tdo@caloes.ca.gov or the California State Warning Center at 1-916-845-8911.

FIRESCOPE STATEWIDE CHANNEL PLAN

The FIRESCOPE Statewide Channel Plan was developed to assist California Fire Service agencies in buying and programming synthesized radios to maximize their effectiveness for mutual aid responses.

Regardless of the radio system used on a daily basis, all California Fire Service agencies should maintain an adequate number of VHF mobile and portable radios to support mutual aid operations. In addition to the VHF interoperability channels, UHF, 700 and 800 MHz interoperability channels are also available to support Mutual Aid and All-Risk incidents.

USAGE NOTES for ICS 217A COMMUNICATIONS RESOURCE WORKSHEETS (SEE COLUMN 4 ON ICS217A WORKSHEETS PAGES 7-28):

1. VFIRE channels are for fire/fire-based EMS inter-agency use. No single-agency/routine communications permitted. Tone 6 (156.7 Hz.) is used as the common tone (transmit and receive). Additional VFIRE operational policies are outlined in California's Office of Emergency Services (OES) Fire Operations Bulletin #28 and the California Statewide Communications Interoperability Plan (Cal-SCIP).
2. Use of CALCORD is subject to the CALCORD Plan, under an executed CALCORD agreement with OES and/or in accordance with the California Statewide Communications Interoperability Plan (Cal-SCIP). Contact OES Telecommunications for information.
3. The listed thirty-two standard tones and thirty-two standard NACs are used by the Fire Service in California for repeater access and/or tone protection in radios. However, if radios can only be programmed with 16 tones, program tones 1 through 16. See Tone/NAC chart on page 33. For radios with 16 tone limitation, it is recommended channels utilizing tones other than tone 1 through 16 are hard programmed with correct tone.
4. Mobile transmitters are to be set to lowest available power setting* on; VFIRE's, VTAC's, UTAC's, Cal-Fire Tac's, NIFC Command and Tac's and all Air-to-Ground channels, etc.
*Lowest available power setting means operations shall be at 10 watts or the lowest power setting above 10 watts available in the radio.
5. Use of the NIFC Command, Tactical and Logistics channels is based upon an approved Incident Radio Communications Plan (ICS Form 205). Communications Unit Leaders **must** obtain authorization for the use of these channels through the NIFC Communications Duty Officer.
6. For use based upon an approved Incident Radio Communications Plan (ICS Form 205). Communications Unit Leaders must obtain authorization for the use of these channels through the Cal-Fire Southern Region/South Operations GACC or Northern Region/North Operations GACC.
7. These channels are for inter-agency/inter-discipline use. No single-agency/routine communications permitted. Tone 6 (156.7 Hz.) is used as the common tone (transmit and receive).
8. **Not available for use** in Imperial, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, and Ventura counties.
9. AIRGUARD – 168.625 MHz – A National Interagency Air Guard frequency for government aircraft assigned to incidents. It is used for emergency communications by aviation. A separate receiver is required to permit continuous monitoring in aircraft. Transmitters on

this channel **must** encode a CTCSS of 110.9 Hz. All Incident Radio Communications Plans (ICS Form 205) on incidents that use federal or Cal-Fire aircraft, **SHALL** have AIRGUARD listed as the last channel for all incident related groups/zones and all incident radios shall be programmed accordingly. When radios have limited channel name characters GUARD may be utilized for channel name.

AIRGUARD is restricted to the following use:

- a. Air-to-Air emergency contact and coordination.
 - b. Ground-to-Air emergency contact.
 - c. Initial call, recall, and re-direction of aircraft when no other contact frequency is available.
10. The **California Emergency Services Radio System (CESRS)** is the only VHF statewide channel authorized for use as a Travel Channel within the State of California. As a Travel Channel, CESRS must be used in the Direct Mode for line-of-sight travel communications. Agencies with a need to contact a State ECC or OES resources during an emergency are authorized to use Repeat Mode.
 11. Users with radios that are capable of switching between direct and repeat should program the repeat channel (and not two separate channels, a direct channel and a repeat channel).
 12. Users with radios that are NOT capable of switching between direct and repeat should program both the repeater and direct version of each repeated channel and place a "D" in the display to identify the direct version.
 13. Radios **shall** be programmed so as to enable the end-user with the ability to choose from the first 16 (minimum) or all 32 (preferably) CTCSS tones listed in Usage Note #3 [e.g. Channel Guard (CG), Operator Selectable Tone (OST), Multiple Private Line (MPL), etc.].
 14. Cal-OES and the FIREScope Communications Specialist Group are no longer authorized to publish Federal frequencies not identified as National Interoperability channels. These radio frequency assignments are Freedom of Information Act (FOIA) release exempt and are to be protected as Sensitive but Unclassified (SBU) data (Controlled Unclassified Information//Basic). To obtain frequency information for this channel, please contact your OES Region Assistant Chief. For after-hours needs contact the CAL OES State Warning Center (916-845-8911).
 15. Unless otherwise specified by NIFC, utilize tone 7 (167.9 Hz) on transmit and receive.
 16. 7DATA69D and 7DATA89D can be used as travel channels in the direct mode nationwide. 7DATA69D is primary for Fire/EMS and 7DATA89D is primary for Law Enforcement.
 17. UTAC41D – UTAC43D have been approved for use by Cal-OES as in camp logistical support nets. Cal-OES controls the usage of these channels and they must be requested before use.

For the use as a “Camp Net” the user must comply to the following parameters:

- A COML (All-Hazards or NWCG) is present and makes the request through the normal ordering process.
- Portable use only not to exceed 4 watts.
- All radios assigned to the incident are FCC Part 90 compliant.
- COML assigned to the incident is required to inspect the radios and ensure correct programming of the radios.

18. Except for an emergency, aircraft shall **not** transmit over NIFC/NIICD repeaters per chapter 15 of the Interagency Standards for Fire and Fire Aviation Operations (AKA Aviation Red Book).
19. These channels may be licensed for national mobile itinerant mobile use. See NIFOG for further information.
20. US Coast Guard (USCG) channel numbers are currently transitioning. Per the USCG:

“In accordance with the ITU (International Telecommunications Union), the Coast Guard will start utilizing four-digit channel number designators in communications with the public. As an example, instead of shifting mariners to channel 22A, we will be shifting them to channel 1022.”
21. P25 Digital Channels are only Required for Digital Capable Radios.
22. Utilize standard tones as published in the MACS 441-1, CAL-IFOG, and NIFOG for all State and National Interoperable channels including VFIRE, VTAC, and all UHF/700/800Mhz interoperable channels. Authorize and coordinate these interoperability channels through Cal OES. Refer to Guideline 13 on Page 3 for interoperability channel reservation requests.

NOTE: For additional information concerning the appropriate usage of channels identified in the FIREScope STATEWIDE CHANNEL PLAN, contact OES Telecommunications or your respective Communications Unit Leader (COML)

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A						Frequency Band			Description		
						VHF			MACS 441-1		
Effective January 1, 2025 All changes since last year are captured in BLUE											
Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
1	Base-Fixed-Mobile	AEU L		151.1900	146.2	159.2250	OST	N	H	A	AEU Local Net
2	Mobile-Portable	AG-08	4, 5, 6, 14	166.8750	0.0	166.8750	0.0	N	L	A	IA Air/Ground Secondary CAO1
3	Mobile-Portable	AG-14	4, 5, 6, 14	167.5000	0.0	167.5000	0.0	N	L	A	IA Air/Ground Primary CAO2
4	Mobile-Portable	AG-24	4, 5, 6, 14	168.6375	0.0	168.6375	0.0	N	L	A	IA Air/Ground Secondary CAO3
5	Mobile-Portable	AG-41	4, 5, 6, 14	167.4750	0.0	167.4750	0.0	N	L	A	IA Air Ground Primary CAO3
6	Mobile-Portable	AG-43	4, 5, 6, 14	167.6000	0.0	167.6000	0.0	N	L	A	IA Air/Ground Primary CAO1
7	Mobile-Portable	AG-53	4, 5, 6, 14	168.4875	0.0	168.4875	0.0	N	L	A	IA Air/Ground Primary CAO4
8	Mobile-Portable	AG-59	4, 5, 6, 14	169.1125	0.0	169.1125	0.0	N	L	A	IA Air/Ground Secondary CAO2 & CAO4
9	Mobile-Portable	AIRGUARD	9	168.6250	0.0	168.6250	110.9	N	L	A	AIRGUARD - emerg. use only
10	Mobile-Portable	BDC A/G		153.9650	167.9	153.9650	167.9	N	L	A	San Bernardino County Air to Ground
11	Base-Fixed-Mobile	BDC V 1		151.1450	156.7	154.0550	OST	N	H	A	T-7 Chino Hills, T-3 Barstow, T-5 Big Bear
12	Base-Fixed-Mobile	BDC V 2		159.1200	167.9	156.0600	OST	N	H	A	T-2 El Paso Mtns. T-3 Paxton Hill T-6 San Sevaïne
13	Base-Fixed-Mobile	BDC V 3		151.1525	167.9	158.8875	OST	N	H	A	T-2 Trona, T-3 29 Palms, T-6 Quartzite
14	Base-Fixed-Mobile	BDC V 4		154.0325	91.5	155.9175	OST	N	H	A	T-6 Onyx Peak
15	Base-Fixed-Mobile	BDC V 5		155.1075	91.5	155.9700	OST	N	H	A	T-1 Big Bear, T-5 Spirit Mtn., T-6 Twin Peaks
16	Base-Fixed-Mobile	BDC V 6		154.3850	167.9	151.4750	OST	N	H	A	T-3 Rodman, T-7 Little Mtn.
17	Base-Fixed-Mobile	BDC V 7		154.1900	167.9	154.8375	OST	N	H	A	T-6 Heaps Peak

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18	Mobile-Portable	BDC V15		153.8300	167.9	153.8300	167.9	N	L	A	San Bernardino County Tac
19	Mobile-Portable	BDC V16		154.7325	167.9	154.7325	167.9	N	L	A	San Bernardino County Tac
20	Mobile-Portable	BDC V17		154.0700	167.9	154.0700	167.9	N	L	A	San Bernardino County Tac
21	Mobile-Portable	BDC V18		155.4075	167.9	155.4075	167.9	N	L	A	San Bernardino County Tac
22	Mobile-Portable	BDC V19		154.3250	167.9	154.3250	167.9	N	L	A	San Bernardino County Tac
23	Mobile-Portable	BDC V20		155.4000	167.9	155.4000	167.9	N	L	A	San Bernardino County Tac
24	Mobile-Portable	BDC V27		154.2500	167.9	154.2500	167.9	N	H	A	San Bernardino County Tac
25	Mobile-Portable	BDCSARV1		155.7750	151.4	153.9050	OST	N	H	A	T-1 Rodman/Lucerne, T-5 Quartzite, T-7 Onyx Pk, T-9 Heaps Pk, T-25 Chino Hills
26	Base-Fixed-Mobile	BDU 1		151.4450	146.2	159.3900	OST	N	H	A	BDU Local Net # 1
27	Base-Fixed-Mobile	BDU 2		151.3250	146.2	159.3150	OST	N	H	A	BDU Local Net #2
28	Base-Fixed-Mobile	BDU 3		151.2500	146.2	159.4050	OST	N	H	A	BDU Local Net #3
29	Base-Fixed-Mobile	BEU EAST		151.2500	156.7	159.4050	OST	N	H	A	BEU Local Net East
30	Base-Fixed-Mobile	BEU WEST		151.3325	156.7	159.2775	OST	N	H	A	BEU Local Net West
31	Base-Fixed-Mobile	BLM SOA		168.3000	0.0	168.3000	0.0	N	H	A	BLM Scene of Action
32	Base-Fixed-Mobile	BLMCDD-F		166.4875	0.0	167.0750	OST	N	H	A	BLM Fire Net South
33	Base-Fixed-Mobile	BLMCND-F		169.7750	0.0	163.0250	OST	N	H	A	BLM Fire Bakersfield
34	Base-Fixed-Mobile	BLMNODEF		171.6250	0.0	164.2500	OST	N	H	A	BLM Fire North East
35	Base-Fixed-Mobile	BLMNODW		172.6125	0.0	166.3750	OST	N	H	A	BLM Admin NetNorth West
36	Base-Fixed-Mobile	BTU L		151.4000	110.9	159.3750	OST	N	H	A	BTU Local Net

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37	Base-Fixed-Mobile	BTU CMD		154.4150	123.0	159.0000	OST	N	H	A	Butte County Command
38	Base-Fixed-Mobile	CAL CMD		151.6625	136.5	159.7275	OST	N	H	A	Calaveras Command
39	Mobile-Portable	CALCORD	2	156.0750	156.7	156.0750	156.7	N	H	A	Medical Coordination
40	Mobile-Portable	CDF A/G1	4	151.2200	192.8	151.2200	192.8	N	L	A	CDF Air to Ground #1
41	Mobile-Portable	CDF A/G2	4	159.2625	192.8	159.2625	192.8	N	L	A	CDF Air to Ground #2
42	Mobile-Portable	CDF A/G3	4	159.3675	192.8	159.3675	192.8	N	L	A	CDF Air to Ground #3
43	Mobile-Portable	CDF A/G4	4	159.2250	192.8	159.2250	192.8	N	L	A	CDF Air to Ground #4
44	Mobile-Portable	CDF A/G5	4	159.2700	192.8	159.2700	192.8	N	L	A	CDF Air to Ground #5
45	Mobile-Portable	CDF A/G6	4	159.2850	192.8	159.2850	192.8	N	L	A	CDF Air to Ground #6
46	Mobile-Portable	CDF A/G7	4	159.3150	192.8	159.3150	192.8	N	L	A	CDF Air to Ground #7
47	Mobile-Portable	CDF A/G8	4	159.3450	192.8	159.3450	192.8	N	L	A	CDF Air to Ground #8
48	Mobile-Portable	CDF A/G9	4	159.3600	192.8	159.3600	192.8	N	L	A	CDF Air to Ground #9
49	Mobile-Portable	CDFA/G10	4	159.3750	192.8	159.3750	192.8	N	L	A	CDF Air to Ground #10
50	Mobile-Portable	CDFA/G11	4	159.3900	192.8	159.3900	192.8	N	L	A	CDF Air to Ground #11
51	Mobile-Portable	CDFA/G12	4	159.4050	192.8	159.4050	192.8	N	L	A	CDF Air to Ground #12
52	Mobile-Portable	CDFA/G13	4	159.4500	192.8	159.4500	192.8	N	L	A	CDF Air to Ground #13
53	Mobile-Portable	CDFA/G14	4	151.3325	192.8	151.3325	192.8	N	L	A	CDF Air to Ground #14
54	Mobile-Portable	CDFA/G15	4	159.2775	192.8	159.2775	192.8	N	L	A	CDF Air to Ground #15
55	Mobile-Portable	CDFA/G16	4	151.3775	192.8	151.3775	192.8	N	L	A	CDF Air to Ground #16

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Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
56	Base-Fixed-Mobile	CDF C1	3, 6, 11, 13	151.3550	103.5	159.3000	OST	N	H	A	CDF Command 1
57	Base-Fixed-Mobile	CDF C2	3, 6, 11, 13	151.2650	103.5	159.3300	OST	N	H	A	CDF Command 2
58	Base-Fixed-Mobile	CDF C3	3, 6, 11, 13	151.3400	103.5	159.3450	OST	N	H	A	CDF Command 3
59	Base-Fixed-Mobile	CDF C4	3, 6, 11, 13	151.4000	103.5	159.3750	OST	N	H	A	CDF Command 4
60	Base-Fixed-Mobile	CDF C5	3, 6, 11, 13	151.3175	103.5	159.3525	OST	N	H	A	CDF Command 5 (Portable)
61	Base-Fixed-Mobile	CDF C6	3, 6, 11, 13	151.2500	103.5	159.3600	OST	N	H	A	CDF Command 6
62	Base-Fixed-Mobile	CDF C7	3, 6, 11, 13	151.4600	103.5	159.3900	OST	N	H	A	CDF Command 7
63	Base-Fixed-Mobile	CDF C8	3, 6, 11, 13	151.4450	103.5	159.3450	OST	N	H	A	CDF Command 8
64	Base-Fixed-Mobile	CDF C9	3, 6, 11, 13	151.1750	103.5	159.4500	OST	N	H	A	CDF Command 9
65	Base-Fixed-Mobile	CDF C10	3, 6, 11, 13	151.1900	103.5	159.2250	OST	N	H	A	CDF Command 10
66	Mobile-Portable	CDF C11	3, 6, 11, 13	151.1675	103.5	159.3975	OST	N	L	A	CDF Command 11 (Portable)
67	Base-Fixed-Mobile	CDF C12	3, 6, 11, 13	151.2425	103.5	159.2625	OST	N	H	A	CDF Command12
68	Mobile-Portable	CDF T1	4, 6	151.2575	192.8	151.2575	192.8	N	L	A	CDF Tac 1
69	Mobile-Portable	CDF T2	4, 6	151.1600	192.8	151.1600	192.8	N	L	A	CDF Tac 2
70	Mobile-Portable	CDF T3	4, 6	151.1750	192.8	151.1750	192.8	N	L	A	CDF Tac 3
71	Mobile-Portable	CDF T4	4, 6	151.1900	192.8	151.1900	192.8	N	L	A	CDF Tac 4
72	Mobile-Portable	CDF T5	4, 6	151.2500	192.8	151.2500	192.8	N	L	A	CDF Tac 5
73	Mobile-Portable	CDF T6	4, 6	151.3250	192.8	151.3250	192.8	N	L	A	CDF Tac 6
74	Mobile-Portable	CDF T7	4, 6	151.3400	192.8	151.3400	192.8	N	L	A	CDF Tac 7

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Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
75	Mobile-Portable	CDF T8	4, 6	151.3700	192.8	151.3700	192.8	N	L	A	CDF Tac 8
76	Mobile-Portable	CDF T9	4, 6	151.3850	192.8	151.3850	192.8	N	L	A	CDF Tac 9
77	Mobile-Portable	CDF T10	4, 6	151.4000	192.8	151.4000	192.8	N	L	A	CDF Tac 10
78	Mobile-Portable	CDF T11	4, 6	151.4450	192.8	151.4450	192.8	N	L	A	CDF Tac 11
79	Mobile-Portable	CDF T12	4, 6	151.4600	192.8	151.4600	192.8	N	L	A	CDF Tac 12
80	Mobile-Portable	CDF T13	4, 6	159.2925	192.8	159.2925	192.8	N	L	A	CDF Tac 13
81	Mobile-Portable	CDF T14	4, 6	159.3075	192.8	159.3075	192.8	N	L	A	CDF Tac 14
82	Mobile-Portable	CDF T15	4, 6	151.1825	192.8	151.1825	192.8	N	L	A	CDF Tac 15
83	Mobile-Portable	CDF T16	4, 6	151.3475	192.8	151.3475	192.8	N	L	A	CDF Tac 16
84	Mobile-Portable	CDF T17	4, 6	151.3925	192.8	151.3925	192.8	N	L	A	CDF Tac 17
85	Mobile-Portable	CDF T18	4, 6	159.3825	192.8	159.3825	192.8	N	L	A	CDF Tac 18
86	Mobile-Portable	CDF T19	4, 6	151.2425	192.8	151.2425	192.8	N	L	A	CDF Tac 19
87	Mobile-Portable	CDF T20	4, 6	159.2475	192.8	159.2475	192.8	N	L	A	CDF Tac 20
88	Mobile-Portable	CDF T21	4, 6	151.4675	192.8	151.4675	192.8	N	L	A	CDF Tac 21
89	Mobile-Portable	CDF T22	4, 6	159.3225	192.8	159.3225	192.8	N	L	A	CDF Tac 22
90	Mobile-Portable	CDF T23	4, 6	151.1525	192.8	151.1525	192.8	N	L	A	CDF Tac 23
91	Mobile-Portable	CDF T24	4, 6	159.3375	192.8	159.3375	192.8	N	L	A	CDF Tac 24
92	Mobile-Portable	CDF T25	4, 6	151.1450	192.8	151.1450	192.8	N	L	A	CDF Tac 25
93	Mobile-Portable	CDF T26	4, 6	151.4750	192.8	151.4750	192.8	N	L	A	CDF Tac 26

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
94	Mobile-Portable	CDF T27	3, 4, 6	159.2925	67.0	159.2925	67.0	N	L	A	CDF Tac 27
95	Mobile-Portable	CDF T28	3, 4, 6	159.3075	67.0	159.3075	67.0	N	L	A	CDF Tac 28
96	Mobile-Portable	CDF T29	3, 4, 6	151.1825	67.0	151.1825	67.0	N	L	A	CDF Tac 29
97	Mobile-Portable	CDF T30	3, 4, 6	151.3475	67.0	151.3475	67.0	N	L	A	CDF Tac 30
98	Mobile-Portable	CDF T31	3, 4, 6	151.3925	67.0	151.3925	67.0	N	L	A	CDF Tac 31
99	Mobile-Portable	CDF T32	3, 4, 6	159.3825	67.0	159.3825	67.0	N	L	A	CDF Tac 32
100	Mobile-Portable	CDF T33	3, 4, 6	151.2425	67.0	151.2425	67.0	N	L	A	CDF Tac 33
101	Mobile-Portable	CDF T34	3, 4, 6	159.2475	67.0	159.2475	67.0	N	L	A	CDF Tac 34
102	Mobile-Portable	CDF T35	3, 4, 6	151.4675	67.0	151.4675	67.0	N	L	A	CDF Tac 35
103	Mobile-Portable	CDF T36	3, 4, 6	159.3225	67.0	159.3225	67.0	N	L	A	CDF Tac 36
104	Mobile-Portable	CDF T37	3, 4, 6	151.1525	67.0	151.1525	67.0	N	L	A	CDF Tac 37
105	Mobile-Portable	CDF T38	3, 4, 6	159.3375	67.0	159.3375	67.0	N	L	A	CDF Tac 38
106	Mobile-Portable	CDF T39	3, 4, 6	151.1450	67.0	151.1450	67.0	N	L	A	CDF Tac 39
107	Mobile-Portable	CDF T40	3, 4, 6	151.4750	67.0	151.4750	67.0	N	L	A	CDF Tac 40
108	Base-Fixed-Mobile	CESRS	3, 10, 11, 12, 13	153.7550	192.8	154.9800	OST	N	H	A	CA Travel Net Repeated
109	Base-Fixed-Mobile	CESRS-D	10, 11, 12	153.7550	0.0	153.7550	192.8	N	H	A	CA Travel Net - Direct
110	Base-Fixed-Mobile	CNT VC72		155.9850	179.9	158.9550	167.9	N	H	A	Santa Clara County Command
111	Base-Fixed-Mobile	CZU L		151.3700	167.9	159.2850	OST	N	H	A	CZU Local
112	Base-Fixed-Mobile	FCO DST1		154.4450	131.8	159.1950	OST	N	H	A	FKU / FCO Dispatch

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
113	Base-Fixed-Mobile	FIREOC		151.0100	123.0	154.9650	123.0	N	H	A	Orange County Fire Channel
114	Base-Fixed-Mobile	FKU 1		151.3850	131.8	159.2700	OST	N	H	A	FKU Local Net 1
115	Base-Fixed-Mobile	FKU 2		151.1600	131.8	159.3600	OST	N	H	A	FKU Local Net 2
116	Base-Fixed-Mobile	FOOTHILL		155.9850	186.2	154.0100	OST	N	H	A	Foothill Fire
117	Base-Fixed-Mobile	FS ANF		172.3750	0.0	164.9375	OST	N	H	A	USFS Angeles NF
118	Base-Fixed-Mobile	FS BDF		171.4750	0.0	168.1500	OST	N	H	A	USFS San Bernardino NF
119	Base-Fixed-Mobile	FS CNF		171.4250	103.5	164.8000	OST	N	H	A	USFS Cleveland NF
120	Base-Fixed-Mobile	FS ENF		171.5250	156.7	162.7500	OST	N	H	A	USFS El Dorado NF
121	Base-Fixed-Mobile	FS HTF		170.5250	0.0	164.1875	OST	N	H	A	USFS Toiyabe NF (Bridgeport)
122	Base-Fixed-Mobile	FS INF N		173.8000	0.0	165.0125	OST	N	H	A	USFS Inyo NF North
123	Base-Fixed-Mobile	FS INF S		173.8375	0.0	166.2625	OST	N	H	A	USFS Inyo NF South
124	Base-Fixed-Mobile	FS KNF		171.5250	0.0	165.4125	OST	N	H	A	USFS Klamath NF
125	Base-Fixed-Mobile	FS LNF		173.1875	0.0	164.8000	OST	N	H	A	USFS Lassen NF
126	Base-Fixed-Mobile	FS LPF		170.4625	0.0	164.9125	OST	N	H	A	USFS Los Padres NF
127	Base-Fixed-Mobile	FS MDF		170.7375	0.0	164.9875	OST	N	H	A	USFS Modoc NF
128	Base-Fixed-Mobile	FS MNF		171.5500	0.0	164.5000	OST	N	H	A	USFS Mendocino NF
129	Base-Fixed-Mobile	FS PNF		170.5500	0.0	164.8750	OST	N	H	A	USFS Plumas NF
130	Base-Fixed-Mobile	FS SHF		171.5750	0.0	165.0125	OST	N	H	A	USFS Shasta-Trinity NF
131	Base-Fixed-Mobile	FS SNF		172.2250	0.0	164.7875	OST	N	H	A	USFS Sierra NF

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
132	Base-Fixed-Mobile	FS SQF		170.5500	0.0	166.0000	OST	N	H	A	USFS Sequoia NF
133	Base-Fixed-Mobile	FS SRF		172.3750	0.0	164.1750	OST	N	H	A	USFS Six Rivers NF
134	Base-Fixed-Mobile	FS STF		170.5000	0.0	168.7500	OST	N	H	A	USFS Stanislaus NF
135	Base-Fixed-Mobile	FS TMU		172.3750	156.7	164.9625	OST	N	H	A	USFS Lake Tahoe MU Basin Net
136	Base-Fixed-Mobile	FS TNF		170.6000	0.0	164.9375	OST	N	H	A	USFS Tahoe NF
137	Base-Fixed-Mobile	FS SVC-A	14	171.5000	0.0	164.8250	OST	N	H	A	Angeles NF, Los Padres NF, Plumas NF, Shasta-Trinity NF, Service Net - A
138	Base-Fixed-Mobile	FS SVC-B	14	172.4000	0.0	164.1250	OST	N	H	A	Cleveland NF, Inyo NF, Klamath NF (Salmon Net), Mendocino NF, Sequoia NF, Tahoe NF, Service Net - B
139	Base-Fixed-Mobile	FS SVC-C	14	169.9500	0.0	164.1000	OST	N	H	A	Lassen NF, Modoc NF, Service Net - C
140	Base-Fixed-Mobile	FS SVC-D	14	173.7625	0.0	164.8250	OST	N	H	A	Sierra NF, Service Net - D
141	Base-Fixed-Mobile	FS SVC-E	14	169.9500	0.0	164.7875	OST	N	H	A	Six Rivers NF Service Net - E
142	Base-Fixed-Mobile	HUU L		151.2500	110.9	159.4050	OST	N	H	A	HUU Local Net
143	Mobile-Portable	KRN A/G		154.8900	167.9	154.8900	167.9	N	L	A	Kern Co Air/Ground
144	Base-Fixed-Mobile	KRN 1		153.7850	167.9	158.8950	167.9	N	H	A	Kern Co FD Dispatch
145	Base-Fixed-Mobile	KRN 2		155.8800	167.9	158.9400	131.8	N	H	A	Kern Co Secondary Dispatch
146	Base-Fixed-Mobile	KRN 3		155.6250	167.9	158.8500	167.9	N	H	A	Kern Co FD Countywide CMD
147	Base-Fixed-Mobile	KRN 4		154.8600	167.9	158.8200	167.9	N	H	A	Kern CO Primary Cmd Batt. 3 and 6
148	Base-Fixed-Mobile	KRN 5		151.1000	167.9	156.9900	167.9	N	H	A	Kern CO Primary Cmd Batt. 1
149	Base-Fixed-Mobile	LA FIO 1	3, 21	173.5500	\$653	163.1625	\$653	N	H	D	Los Angeles Federal Interop
150	Base-Fixed-Mobile	LA FIO 2	3, 21	172.4125	\$653	162.8875	\$653	N	H	D	Los Angeles Federal Interop

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
151	Base-Fixed-Mobile	LA FIO 3	3, 21	173.6000	\$653	164.1875	\$653	N	H	D	Los Angeles Federal Interop
152	Mobile-Portable	LAC A/G		154.4000	151.4	154.4000	151.4	N	H	A	LAC County Air to Ground
153	Base-Fixed-Mobile	LAC V-1		152.1500	151.4	158.6100	151.4	N	H	A	LAC Command 1
154	Base-Fixed-Mobile	LAC V-2		152.2400	151.4	158.7000	151.4	N	H	A	LAC Command 2
155	Base-Fixed-Mobile	LAC V-3		152.5400	151.4	157.8000	151.4	N	H	A	LAC Command 3
156	Base-Fixed-Mobile	LAC V-4		152.5700	151.4	157.8300	151.4	N	H	A	LAC Command 4
157	Base-Fixed-Mobile	LAC V-5		152.7800	151.4	158.0400	151.4	N	H	A	LAC Command 5
158	Base-Fixed-Mobile	LAC V-7D		153.8900	151.4	153.8900	151.4	N	H	A	
159	Base-Fixed-Mobile	LAC V-8D		154.0700	151.4	154.0700	151.4	N	H	A	
160	Base-Fixed-Mobile	LAC V-9D		154.3400	0.0	154.3400	151.4	N	H	A	
161	Base-Fixed-Mobile	LAC V-10D		154.4150	151.4	154.4150	151.4	N	H	A	
162	Base-Fixed-Mobile	LAC V-11D		154.4300	0.0	154.4300	151.4	N	H	A	
163	Base-Fixed-Mobile	LAC V-12D		158.9700	151.4	158.9700	151.4	N	H	A	
164	Base-Fixed-Mobile	LAC V-13D		159.0900	151.4	159.0900	151.4	N	H	A	
165	Base-Fixed-Mobile	LAC V-14D		159.6300	151.4	159.6300	151.4	N	H	A	
166	Base-Fixed-Mobile	LAC V-15D		159.5250	151.4	159.5250	151.4	N	H	A	
167	Base-Fixed-Mobile	LAC V-16D		161.3700	151.4	161.3700	151.4	N	H	A	
168	Base-Fixed-Mobile	LAC V-17D		161.4750	151.4	161.4750	151.4	N	H	A	
169	Mobile-Portable	LAC V-20D		156.1050	151.4	156.1050	151.4	N	H	A	

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
170	Mobile-Portable	LAC V-21D		159.2250	151.4	159.2250	151.4	N	H	A	
171	Mobile-Portable	LFD A/G		154.8300	100.0	154.8300	100.0	N	H	A	LA CITY Air to Ground Shared w/LAPD
172	Base-Fixed-Mobile	LMU L		151.2500	123.0	159.4050	OST	N	H	A	LMU Local Net
173	Base-Fixed-Mobile	LNU EAST		151.3400	136.5	159.3150	OST	N	H	A	LNU East Net
174	Base-Fixed-Mobile	LNU WEST		151.4600	136.5	159.3900	OST	N	H	A	LNU West Net
175	Base-Fixed-Mobile	MEU L		151.3850	110.9	159.2700	OST	N	H	A	MEU Local Net
176	Base-Fixed-Mobile	MMU 1		151.4600	123.0	159.3900	OST	N	H	A	MMU Local Net 1
177	Base-Fixed-Mobile	MMU 2		151.1525	123.0	159.3375	OST	N	H	A	MMU Local Net 2
178	Base-Fixed-Mobile	MRN CMD1		156.2400	127.3	159.1050	OST	N	A	A	Marin County VHF Command Mutual Aid
179	Base-Fixed-Mobile	MRN L		151.0400	146.2	159.1800	OST	N	H	A	Marin County Comm Center "Woodacre" contact Mutual Aid
180	Base-Fixed-Mobile	NEU EAST		154.1300	131.8	159.4950	OST	N	H	A	NEU East Net
181	Base-Fixed-Mobile	NEU WEST		151.3250	131.8	159.3600	OST	N	H	A	NEU Local Net
182	Base-Fixed-Mobile	NEV CO		153.9650	100.0	156.3300	OST	N	H	A	Nevada County Fire
183	Base-Fixed-Mobile	NIFC C1	3, 4, 5, 11, 13, 14, 18	170.9750	0.0	168.7000	OST	N	L	A	NIFC Command 1
184	Base-Fixed-Mobile	NIFC C2	3, 4, 5, 11, 13, 14, 18	170.4500	0.0	168.1000	OST	N	L	A	NIFC Command 2
185	Base-Fixed-Mobile	NIFC C3	3, 4, 5, 11, 13, 14, 18	170.4250	0.0	168.0750	OST	N	L	A	NIFC Command 3
186	Base-Fixed-Mobile	NIFC C4	3, 4, 5, 11, 13, 14, 18	170.0000	0.0	166.6750	OST	N	L	A	NIFC Command 4
187	Base-Fixed-Mobile	NIFC C5	3, 4, 5, 11, 13, 14, 18	169.7500	0.0	167.1000	OST	N	L	A	NIFC Command 5
188	Base-Fixed-Mobile	NIFC C6	3, 4, 5, 11, 13, 14, 18	168.4750	0.0	165.4000	OST	N	L	A	NIFC Command 6

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
189	Base-Fixed-Mobile	NIFC C8	3, 4, 5, 11, 13, 14, 15, 18	169.5375	0.0	164.7125	OST	N	L	A	NIFC Command 8 / AKA: NIFOG NC1
190	Base-Fixed-Mobile	NIFC C9	3, 4, 5, 11, 13, 14, 15, 18	170.0125	0.0	165.2500	OST	N	L	A	NIFC Command 9 / AKA: NIFOG IR1
191	Base-Fixed-Mobile	NIFC C10	3, 4, 5, 11, 13, 14, 15, 18	170.4125	0.0	165.9625	OST	N	L	A	NIFC Command 10 / AKA: NIFOG IR2
192	Base-Fixed-Mobile	NIFC C11	3, 4, 5, 11, 13, 14, 15, 18	170.6875	0.0	166.5750	OST	N	L	A	NIFC Command 11 / AKA: NIFOG IR3
193	Base-Fixed-Mobile	NIFC C12	3, 4, 5, 11, 13, 14, 15, 18	173.0375	0.0	167.3250	OST	N	L	A	NIFC Command 12 / AKA: NIFOG IR4
194	Mobile-Portable	NIFC T1	3, 4, 5, 13, 14	168.0500	0.0	168.0500	0.0	N	L	A	NIFC Tac 1
195	Mobile-Portable	NIFC T2	3, 4, 5, 13, 14	168.2000	0.0	168.2000	0.0	N	L	A	NIFC Tac 2
196	Mobile-Portable	NIFC T3	3, 4, 5, 13, 14	168.6000	0.0	168.6000	0.0	N	L	A	NIFC Tac 3
197	Mobile-Portable	NIFC T4	3, 4, 5, 13, 14	166.7250	0.0	166.7250	0.0	N	L	A	NIFC Tac 4 (name change, previously NIFC Tac 5)
198	Mobile-Portable	NIFC T5	3, 4, 5, 13, 14	166.7750	0.0	166.7750	0.0	N	L	A	NIFC Tac 5 (name change, previously NIFC Tac 6)
199	Mobile-Portable	NIFC T6	3, 4, 5, 13, 14	168.2500	0.0	168.2500	0.0	N	L	A	NIFC Tac 6 (name change, previously NIFC Tac 7)
200	Mobile-Portable	OCACCESS		151.0850	136.5	159.0000	136.5	N	H	A	XOR Secondary VHF Command & 800mhz/VHF Patch
201	Mobile-Portable	ORC A/G 1		154.8150	192.8	154.8150	192.8	N	H	A	XOR Air to Ground Limited to 5 watts in Aircraft Radios and 50 watts in mobile Radios
202	Base-Fixed-Mobile	OES V1	3, 11, 13, 22	154.1600	0.0	159.1350	OST	N	H	A	OES Fire V1 (Previously OES 1A)
203	Base-Fixed-Mobile	OES V2	3, 11, 13, 22	154.1600	0.0	159.1950	OST	N	H	A	OES Fire V2 (Previously OES 1B)
204	Base-Fixed-Mobile	OES V3	3, 11, 13, 22	154.2200	0.0	159.1350	OST	N	H	A	OES Fire V3 (Previously OES 2A)
205	Base-Fixed-Mobile	OES V4	3, 11, 13, 22	154.2200	0.0	159.1950	OST	N	H	A	OES Fire V4 (Previously OES 2B)
206	Base-Fixed-Mobile	PCF CMD		152.8100	131.8	158.0700	OST	N	H	A	Placer County Fire Dept. Command
207	Mobile-Portable	R5 T4	3, 4, 6, 13, 14	166.5500	0.0	166.5500	0.0	N	L	A	USFS Region 5 Tac 4

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
208	Mobile-Portable	R5 T5	3, 4, 6, 13, 14	167.1125	0.0	167.1125	0.0	N	L	A	USFS Region 5 Tac 5
209	Mobile-Portable	R5 T6	3, 4, 6, 13, 14	168.2375	0.0	168.2375	0.0	N	L	A	USFS Region 5 Tac 6
210	Mobile-Portable	R5 T7	3, 4, 6, 13, 14	167.9625	0.0	167.9625	0.0	N	L	A	USFS Region 5 Tac 7
211	Base-Fixed-Mobile	RRU 1		151.3850	110.9	159.3600	OST	N	H	A	RRU Local Net 1 West
212	Base-Fixed-Mobile	RRU 2		151.1750	110.9	159.2850	OST	N	H	A	RRU Local Net 2
213	Base-Fixed-Mobile	RRU3 IND		151.1300	94.8	158.9250	OST	N	H	A	RRU Local Net 3 Indio
214	Base-Fixed-Mobile	RRU3 BLY		151.1300	88.5	158.9250	OST	N	H	A	RRU Local Net 3 Blythe
215	Mobile-Portable	RVC A-G		155.7000	192.8	155.7000	192.8	N	L	A	RVC Air to Ground
216	Base-Fixed-Mobile	RVC C1		154.1000	0.0	156.0000	OST	N	H	A	RVC Command 1
217	Mobile-Portable	SBC A/G		155.6400	100.0	155.6400	100.0	N	H	A	Santa Barbara Air to Ground
218	Base-Fixed-Mobile	SBC C-1		153.7700	110.9	154.2500	136.5	N	H	A	Santa Barbara County Dispatch
219	Base-Fixed-Mobile	SBC C-2		153.9050	110.9	154.9950	127.3	N	H	A	Santa Barbara County Command 2
220	Base-Fixed-Mobile	SBC C-3		153.9800	110.9	155.7150	127.3	N	H	A	Santa Barbara County Command 3
221	Base-Fixed-Mobile	SBC T-7		155.5950	100.0	155.5950	100.0	N	H	A	
222	Base-Fixed-Mobile	SBC T-8		154.8450	100.0	154.8450	100.0	N	H	A	
223	Base-Fixed-Mobile	SBC T-9		154.6500	100.0	154.6500	100.0	N	H	A	
224	Base-Fixed-Mobile	SCC CMD		151.1225	156.7	159.1650	OST	N	H	A	Santa Clara Command
225	Base-Fixed-Mobile	SCU L		151.4450	156.7	159.3450	OST	N	H	A	SCU Local
226	Base-Fixed-Mobile	SDU 1		151.1900	131.8	159.2250	OST	N	H	A	SDU LOCAL NET (previously MVU 1)

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
227	Base-Fixed-Mobile	SDU 2		151.3325	131.8	159.2775	OST	N	H	A	SDU LOCAL 2 previously MVU 2
228	Base-Fixed-Mobile	SF FED V	3, 21	171.6125	\$653	163.7750	\$653	N	H	D	SFFD Mutual Aid
229	Base-Fixed-Mobile	SF MA VA	3, 21	168.7625	\$653	162.9000	\$653	N	H	D	SFFD Mutual Aid
230	Base-Fixed-Mobile	SHA CMD		154.4300	136.5	159.0150	OST	N	H	A	Shasta Co. Command
231	Base-Fixed-Mobile	SHU L		151.1600	136.5	159.2700	OST	N	H	A	SHU Local Net
232	Base-Fixed-Mobile	SKU L		151.3250	156.7	159.3600	OST	N	H	A	SKU Local Net
233	Base-Fixed-Mobile	SLC DISP	3	154.3850	82.5	156.0300	82.5	N	H	A	SLC/SLU Dispatch
234	Base-Fixed-Mobile	SLU L		151.3250	136.5	159.3150	OST	N	H	A	SLU Local Net
235	Base-Fixed-Mobile	TCU L		151.1750	136.5	159.4500	OST	N	H	A	TCU Local Net
236	Base-Fixed-Mobile	TGU L		151.3700	146.2	159.2850	OST	N	H	A	TGU Local Net
237	Base-Fixed-Mobile	TLC CMD1		155.4000	131.8	153.8375	OST	N	H	A	Tulare County Command 1
238	Base-Fixed-Mobile	TLC CMD2		153.9050	131.8	158.9250	OST	N	H	A	Tulare County Command 2
239	Base-Fixed-Mobile	TLC DISP		154.0100	131.8	155.8950	OST	N	H	A	Tulare County Fire Net
240	Mobile-Portable	TLC TAC3		153.8300	131.8	153.8300	131.8	N	H	A	Tulare County Tactical
241	Base-Fixed-Mobile	TLU CMD		151.1300	136.5	158.6925	OST	N	H	A	Tuolumne Command
242	Base-Fixed-Mobile	TUU L		151.1900	110.9	159.2250	OST	N	H	A	TUU Local Net
243	Base-Fixed-Mobile	USCG 16	20	156.8000	0.0	156.8000	0.0	W	H	A	Maritime International Distress, Safety, and Calling. Previously MARINE16
244	Base-Fixed-Mobile	USCG1022	20	157.1000	0.0	157.1000	0.0	W	H	A	Maritime Liaison and Safety Broadcasts. Previously MARINE22/USCG22
245	Mobile-Portable	VCALL 10	7, 22	155.7525	0.0	155.7525	156.7	N	H	A	National Interop

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
246	Mobile-Portable	VFIRE 21	1, 22	154.2800	156.7	154.2800	156.7	N	H	A	National Interop
247	Mobile-Portable	VFIRE 22	1, 4, 22	154.2650	156.7	154.2650	156.7	N	L	A	National Interop
248	Mobile-Portable	VFIRE 23	1, 4, 22	154.2950	156.7	154.2950	156.7	N	L	A	National Interop
249	Mobile-Portable	VFIRE 24	1, 4, 22	154.2725	156.7	154.2725	156.7	N	L	A	National Interop
250	Mobile-Portable	VFIRE 25	1, 4, 22	154.2875	156.7	154.2875	156.7	N	L	A	National Interop
251	Mobile-Portable	VFIRE 26	1, 4, 22	154.3025	156.7	154.3025	156.7	N	L	A	National Interop
252	Base-Fixed-Mobile	VMED 28	4, 7, 22	155.3400	156.7	155.3400	156.7	N	H	A	National Interop
253	Base-Fixed-Mobile	VMED 29	4, 7, 20, 22	155.3475	156.7	155.3475	156.7	N	H	A	National Interop
254	Mobile-Portable	VNC A/G		154.2350	167.9	154.2350	167.9	N	H	A	Ventura County Air to Ground
255	Base-Fixed-Mobile	VNC C-2		154.3250	79.7	155.8350	79.7	N	H	A	Ventura County Command 2
256	Base-Fixed-Mobile	VNC C-5		153.8750	85.4	158.8050	85.4	N	H	A	Ventura County Command 5
257	Base-Fixed-Mobile	VNC C-8		155.9850	186.2	154.7250	186.2	N	H	A	Ventura County Command 8
258	Base-Fixed-Mobile	VNC C-11		154.4150	100.0	155.7300	131.8	N	H	A	Ventura County Command 11
259	Base-Fixed-Mobile	VNC DISP		155.0550	82.5	155.0550	82.5	N	H	A	Ventura County Dispatch
260	Base-Fixed-Mobile	VNC T-3		153.9500	167.9	153.9500	167.9	N	H	A	Ventura County Tac 3
261	Base-Fixed-Mobile	VNC T-4		156.0300	123.0	156.0300	123.0	N	H	A	Ventura County Tac 4
262	Base-Fixed-Mobile	VNC T-6		154.0250	167.9	154.0250	167.9	N	H	A	Ventura County Tac 6
263	Base-Fixed-Mobile	VNC T-7		153.8900	107.2	153.8900	107.2	N	H	A	Ventura County Tac 7
264	Base-Fixed-Mobile	VNC T-9		153.8300	167.9	153.8300	167.9	N	H	A	Ventura County Tac 9

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
265	Base-Fixed-Mobile	VNC T-10		154.0700	123.0	154.0700	123.0	N	H	A	Ventura County Tac 10
266	Base-Fixed-Mobile	VNC T-12		154.1450	167.9	154.1450	167.9	N	H	A	Ventura County Tac 12
267	Base-Fixed-Mobile	VNC T-13		156.2100	167.9	156.2100	167.9	N	H	A	Ventura County Tac 13
268	Base-Fixed-Mobile	VNC T-14		159.0675	167.9	159.0675	167.9	N	H	A	Ventura County Tac 14
269	Base-Fixed-Mobile	VNC T-16		154.0100	D165	154.0100	D165	N	H	A	Ventura County Tac 16
270	Mobile-Portable	VSAR16	4, 22	155.1600	127.3	155.1600	127.3	N	H	A	SAR Common
271	Mobile-Portable	VTAC 11	4, 7, 22	151.1375	156.7	151.1375	156.7	N	L	A	VHF Interop National
272	Mobile-Portable	VTAC 12	4, 7, 22	154.4525	156.7	154.4525	156.7	N	L	A	VHF Interop National
273	Mobile-Portable	VTAC 13	4, 7, 22	158.7375	156.7	158.7375	156.7	N	L	A	VHF Interop National
274	Mobile-Portable	VTAC 14	4, 7, 22	159.4725	156.7	159.4725	156.7	N	L	A	VHF Interop National
275	Base-Fixed-Mobile	VTAC 33	4, 22	159.4725	156.7	151.1375	136.5	N	L	A	Portable Tactical Repeater
276	Base-Fixed-Mobile	VTAC 34	4, 22	158.7375	156.7	154.4525	136.5	N	L	A	Portable Tactical Repeater
277	Base-Fixed-Mobile	VTAC 35	4, 22	159.4725	156.7	158.7375	136.5	N	L	A	Portable Tactical Repeater
278	Base-Fixed-Mobile	VTAC 36	4, 22	151.1375	156.7	159.4725	136.5	N	L	A	Portable Tactical Repeater
279	Base-Fixed-Mobile	VTAC 37	4, 22	154.4525	156.7	158.7375	136.5	N	L	A	Portable Tactical Repeater
280	Base-Fixed-Mobile	VTAC 38	4, 22	158.7375	156.7	159.4725	136.5	N	L	A	Portable Tactical Repeater
281	Mobile-Portable	VXCC C1		154.3850	136.5	155.8200	156.7	N	H	A	Contra Costa County Command
282	Base-Fixed-Mobile	XAM CMD		154.7625	123.0	159.1800	OST	N	H	A	Amador Op Area Command Net
283	Base-Fixed-Mobile	XED CMD		155.9025	186.2	159.2775	OST	N	H	A	El Dorado Op Area Command Net

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
284	Base-Fixed-Mobile	XMA CMD		153.1850	123.0	158.4300	OST	N	H	A	Madera Command
285	Base-Fixed-Mobile	XNA FIRE		154.4150	131.8	154.8600	OST	N	H	A	Napa County Fire
286	Mobile-Portable	XSD A/G1		156.1650	107.2	156.1650	107.2	N	L	A	San Diego Co. Air/Ground
287	Mobile-Portable	XSD A/G2		156.1200	107.2	156.1200	107.2	N	L	A	San Diego Co. Air/Ground
288	Mobile-Portable	XSD A/G3		153.9050	107.2	153.9050	107.2	N	L	A	San Diego City Air/Ground
289	Base-Fixed-Mobile	XSD CMD1		154.1750	103.5	158.8650	103.5	N	H	A	San Diego County Command 1
290	Base-Fixed-Mobile	XSD CMD2		156.2250	107.2	159.0150	107.2	N	H	A	San Diego County Command 2
291	Base-Fixed-Mobile	XSD CMD3		153.9950	110.9	159.1125	OST	N	H	A	San Diego County Command 3
292	Base-Fixed-Mobile	XSD CMD4		158.9700	103.5	155.5500	103.5	N	H	A	San Diego City Command 4
293	Base-Fixed-Mobile	XSD CMD5		153.8900	156.7	150.8050	OST	N	H	A	San Diego County Command 5
294	Base-Fixed-Mobile	XSD CMD6		154.0250	131.8	158.7450	OST	N	H	A	San Diego County Command 6
295	Base-Fixed-Mobile	XSDCMD11		150.6125	156.7	167.4500	OST	N	H	A	San Diego County Command 11
296	Base-Fixed-Mobile	XSDCMD14		153.9350	103.5	154.7250	103.5	N	H	A	San Diego City Command 14
297	Base-Fixed-Mobile	XSD T-1		155.0850	103.5	155.0850	103.5	N	L	A	San Diego County Tac 1
298	Base-Fixed-Mobile	XSD T-3		154.1450	103.5	154.1450	103.5	N	L	A	San Diego City Tac 3
299	Base-Fixed-Mobile	XSD T-4		154.3100	103.5	154.3100	103.5	N	L	A	San Diego City Tac 4
300	Mobile-Portable	XSD T-5		154.2500	0.0	154.2500	0.0	N	L	A	San Diego County Tac 5
301	Mobile-Portable	XSD T-6		154.4150	0.0	154.4150	0.0	N	L	A	San Diego County Tac 6
302	Mobile-Portable	XSD T-14		149.0750	0.0	149.0750	0.0	N	L	A	Coordinated MCP/Pendleton T-14

Mandatory For All Fire Radios Providing Mutual Aid in California											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
303	Base-Fixed-Mobile	XSFVCMD1		158.7600	192.8	155.2200	192.8	N	H	A	San Francisco Mutual Aid
304	Base-Fixed-Mobile	XSFVCMD2		155.3850	192.8	154.4300	192.8	N	H	A	San Francisco Mutual Aid
305	Mobile-Portable	XSFVTAC3		155.6850	192.8	155.6850	192.8	N	L	A	San Francisco Mutual Aid
306	Mobile-Portable	XSFVTAC4	21	155.6850	\$357	155.6850	\$357	N	L	D	San Francisco Mutual Aid
307	Base-Fixed-Mobile	XSL C4		151.0550	192.8	156.0450	192.8	N	H	A	San Luis Obispo Co. CMD 4
308	Base-Fixed-Mobile	XSL C5		154.8300	186.2	156.0900	186.2	N	H	A	San Luis Obispo Co. CMD 5
309	Base-Fixed-Mobile	XSMCMD51		151.4750	167.9	159.0150	167.9	N	H	A	San Mateo County Command
End of Mandatory Load For All Fire Radios Providing Mutual Aid in California											

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A						Frequency Band			Description		
						UHF & UHF-T			MACS 441-1		
Effective March 1, 2024 All changes since last year are captured in BLUE											
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
1	Simplex – Mo only	FDUMA		487.2375	156.7	487.2375	156.7	N	H	A	Cal-OES Interop in LAC ONLY
2	Repeater Pair	UCALL40	3, 7, 11, 12, 13, 22	453.2125	156.7	458.2125	156.7	N	H	A	
3	Repeater Pair	UTAC41	3, 7, 11, 12, 13, 17, 22	453.4625	156.7	458.4625	156.7	N	H	A	
4	Repeater Pair	UTAC42	3, 7, 11, 12, 13, 17, 22	453.7125	156.7	458.7125	156.7	N	H	A	
5	Repeater Pair	UTAC43	3, 7, 11, 12, 13, 17, 22	453.8625	156.7	458.8625	156.7	N	H	A	
6	Repeater Pair	NC 2 CALL	22	410.2375	167.9	419.2375	167.9	N	H	A	Calling
7	Repeater Pair	IR 10	22	410.4375	167.9	419.4375	167.9	N	H	A	
8	Repeater Pair	IR 11	22	410.6375	167.9	419.6375	167.9	N	H	A	
9	Repeater Pair	IR 12	22	410.8375	167.9	419.8375	167.9	N	H	A	SAR Incident Command
10	Simplex	IR 13	22	413.1875	167.9	413.1875	167.9	N	H	A	
11	Simplex	IR 14	22	413.2125	167.9	413.2125	167.9	N	H	A	Interagency Convoy
12	Simplex	IR 15	22	410.2375	167.9	410.2375	167.9	N	H	A	Calling (Direct)
13	Simplex	IR 16	22	410.4375	167.9	410.4375	167.9	N	H	A	Direct for IR 10
14	Simplex	IR 17	22	410.6375	167.9	410.6375	167.9	N	H	A	Direct for IR 11
15	Simplex	IR 18	22	410.8375	167.9	410.8375	167.9	N	H	A	Direct for IR 12 - SAR Incident Cmd
16	Repeater Pair	MED 1	3, 12, 13, 22	463.0000	CSQ	468.0000	OST	N	H	A	
17	Repeater Pair	MED 2	3, 12, 13, 22	463.0250	CSQ	468.0250	OST	N	H	A	

Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
18	Repeater Pair	MED 3	3, 12, 13, 22	463.0500	CSQ	468.0500	OST	N	H	A	
19	Repeater Pair	MED 4	3, 12, 13, 22	463.0750	CSQ	468.0750	OST	N	H	A	
20	Repeater Pair	MED 5	3, 12, 13, 22	463.1000	CSQ	468.1000	OST	N	H	A	
21	Repeater Pair	MED 6	3, 12, 13, 22	463.1250	CSQ	468.125	OST	N	H	A	
22	Repeater Pair	MED 7	3, 12, 13, 22	463.1500	CSQ	468.1500	OST	N	H	A	
23	Repeater Pair	MED 8	3, 12, 13, 22	463.1750	CSQ	468.1750	OST	N	H	A	
24	Repeater Pair	MED 9	3, 12, 13, 22	462.9500	CSQ	467.9500	OST	N	H	A	
25	Repeater Pair	MED 10	3, 12, 13, 22	462.9750	CSQ	467.9750	OST	N	H	A	
26	Repeater Pair	MED 12	3, 12, 13, 22	463.0125	CSQ	468.0125	OST	N	H	A	
27	Repeater Pair	MED 22	3, 12, 13, 22	463.0375	CSQ	468.0375	OST	N	H	A	
28	Repeater Pair	MED 32	3, 12, 13, 22	463.0625	CSQ	468.0625	OST	N	H	A	
29	Repeater Pair	MED 42	3, 12, 13, 22	463.0875	CSQ	468.0875	OST	N	H	A	
30	Repeater Pair	MED 52	3, 12, 13, 22	463.1125	CSQ	468.1125	OST	N	H	A	
31	Repeater Pair	MED 62	3, 12, 13, 22	463.1375	CSQ	468.1375	OST	N	H	A	
32	Repeater Pair	MED 72	3, 12, 13, 22	463.1625	CSQ	468.1625	OST	N	H	A	
33	Repeater Pair	MED 82	3, 12, 13, 22	463.1875	CSQ	468.1875	OST	N	H	A	
34	Repeater Pair	MED 92	3, 12, 13, 22	462.9625	CSQ	467.9625	OST	N	H	A	
35	Repeater Pair	MED 102	3, 12, 13, 22	462.9875	CSQ	467.9875	OST	N	H	A	

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A						Frequency Band			Description		
						700 & 800 MHz			MACS 441-1		
Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
Effective March 1, 2024 All changes since last year are captured in BLUE											
1	Base-Fixed-Mobile	7CALL50	3, 12, 13, 21, 22	769.24375	\$F7E	799.24375	\$293	N	H	D	
2	Base-Fixed-Mobile	7TAC51	3, 12, 13, 21, 22	769.14375	\$F7E	799.14375	\$293	N	H	D	
3	Base-Fixed-Mobile	7TAC52	3, 12, 13, 21, 22	769.64375	\$F7E	799.64375	\$293	N	H	D	
4	Base-Fixed-Mobile	7TAC53	3, 12, 13, 21, 22	770.14375	\$F7E	800.14375	\$293	N	H	D	
5	Base-Fixed-Mobile	7TAC54	3, 12, 13, 21, 22	770.64375	\$F7E	800.64375	\$293	N	H	D	
6	Base-Fixed-Mobile	7TAC55	3, 12, 13, 21, 22	769.74375	\$F7E	799.74375	\$293	N	H	D	
7	Base-Fixed-Mobile	7TAC56	3, 12, 13, 21, 22	770.24375	\$F7E	800.24375	\$293	N	H	D	
8	Base-Fixed-Mobile	7GTAC57	3, 12, 13, 21, 22	770.99375	\$F7E	800.99375	\$293	N	H	D	
9	Base-Fixed-Mobile	7MOB59	3, 12, 13, 21, 22	770.89375	\$F7E	800.89375	\$293	N	H	D	
10	Base-Fixed-Mobile	7LAW61	3, 12, 13, 21, 22	770.39375	\$F7E	800.39375	\$293	N	H	D	
11	Base-Fixed-Mobile	7LAW62	3, 12, 13, 21, 22	770.49375	\$F7E	800.49375	\$293	N	H	D	
12	Base-Fixed-Mobile	7FIRE63	3, 12, 13, 21, 22	769.89375	\$F7E	799.89375	\$293	N	H	D	
13	Base-Fixed-Mobile	7FIRE64	3, 12, 13, 21, 22	769.99375	\$F7E	799.99375	\$293	N	H	D	
14	Base-Fixed-Mobile	7MED65	3, 12, 13, 21, 22	769.39375	\$F7E	799.39375	\$293	N	H	D	
15	Base-Fixed-Mobile	7MED66	3, 12, 13, 21, 22	769.49375	\$F7E	799.49375	\$293	N	H	D	
16	Base-Fixed-Mobile	7DATA69	3, 12, 13, 21, 22	770.74375	\$F7E	800.74375	\$293	N	H	D	
17	Base-Fixed-Mobile	7DATA69D	16, 21	770.74375	\$F7E	770.74375	\$293	N	H	D	Fire/EMS Travel Net

Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
18	Base-Fixed-Mobile	7CALL70	3, 12, 13, 21, 22	773.25625	\$F7E	803.25625	\$293	N	H	D	
19	Base-Fixed-Mobile	7TAC71	3, 12, 13, 21, 22	773.10625	\$F7E	803.10625	\$293	N	H	D	
20	Base-Fixed-Mobile	7TAC72	3, 12, 13, 21, 22	773.60625	\$F7E	803.60625	\$293	N	H	D	
21	Base-Fixed-Mobile	7TAC73	3, 12, 13, 21, 22	774.10625	\$F7E	804.10625	\$293	N	H	D	
22	Base-Fixed-Mobile	7TAC74	3, 12, 13, 21, 22	774.60625	\$F7E	804.60625	\$293	N	H	D	
23	Base-Fixed-Mobile	7TAC75	3, 12, 13, 21, 22	773.75625	\$F7E	803.75625	\$293	N	H	D	
24	Base-Fixed-Mobile	7TAC76	3, 12, 13, 21, 22	774.25625	\$F7E	804.25625	\$293	N	H	D	
25	Base-Fixed-Mobile	7GTAC77	3, 12, 13, 21, 22	774.85625	\$F7E	804.85625	\$293	N	H	D	
26	Base-Fixed-Mobile	7MOB79	3, 12, 13, 21, 22	774.50625	\$F7E	804.50625	\$293	N	H	D	
27	Base-Fixed-Mobile	7LAW81	3, 12, 13, 21, 22	774.00625	\$F7E	804.00625	\$293	N	H	D	
28	Base-Fixed-Mobile	7LAW82	3, 12, 13, 21, 22	774.35625	\$F7E	804.35625	\$293	N	H	D	
29	Base-Fixed-Mobile	7FIRE83	3, 12, 13, 21, 22	773.50625	\$F7E	803.50625	\$293	N	H	D	
30	Base-Fixed-Mobile	7FIRE84	3, 12, 13, 21, 22	773.85625	\$F7E	803.85625	\$293	N	H	D	
31	Base-Fixed-Mobile	7MED86	3, 12, 13, 21, 22	773.00625	\$F7E	803.00625	\$293	N	H	D	
32	Base-Fixed-Mobile	7MED87	3, 12, 13, 21, 22	773.35625	\$F7E	803.35625	\$293	N	H	D	
33	Base-Fixed-Mobile	7DATA89	3, 12, 13, 21, 22	774.75625	\$F7E	804.75625	\$293	N	H	D	Voice Tx permitted on a secondary basis
34	Base-Fixed-Mobile	7DATA89D	16, 21	774.75625	\$F7E	774.75625	\$293	N	H	D	Law Travel Net
35	Air-Mobile-Portable	7AG58	11, 12, 21, 22	769.13125	\$F7E	779.13125	\$293	N	L	D	May use in simplex mode as well
36	Air-Mobile-Portable	7AG60	11, 12, 21, 22	769.63125	\$F7E	779.63125	\$293	N	L	D	May use in simplex mode as well

Ch	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Usage Notes	RX Freq	RX Tone or CSQ	TX Freq	Tx Tone or NAC	N or W	Mob Pwr	Mode A, D or M	Remarks
37	Air-Mobile-Portable	7AG67	11, 12, 21, 22	770.13125	\$F7E	800.13125	\$293	N	L	D	May use in simplex mode as well
38	Air-Mobile-Portable	7AG68	11, 12, 21, 22	770.63125	\$F7E	800.63125	\$293	N	L	D	May use in simplex mode as well
39	Air-Mobile-Portable	7AG78	11, 12, 21, 22	773.11875	\$F7E	803.11875	\$293	N	L	D	May use in simplex mode as well
40	Air-Mobile-Portable	7AG80	11, 12, 21, 22	773.61875	\$F7E	803.61875	\$293	N	L	D	May use in simplex mode as well
41	Air-Mobile-Portable	7AG85	11, 12, 21, 22	774.11875	\$F7E	804.11875	\$293	N	L	D	May use in simplex mode as well
42	Air-Mobile-Portable	7AG88	11, 12, 21, 22	774.61875	\$F7E	804.61875	\$293	N	L	D	May use in simplex mode as well
43	Mobile	7US01	11, 12, 21, 22	769.05625	156.7	799.05625	156.7	N	L	A	
44	Mobile	7US02	11, 12, 21, 22	769.06875	156.7	799.06875	156.7	N	L	A	
45	Mobile	7US03	11, 12, 21, 22	774.99375	156.7	804.99375	156.7	N	L	A	
46	Base-Fixed-Mobile	8CAFIRE1	3, 11, 13, 22	853.98750	156.7	808.98750	156.7	4Khz	H	A	
47	Base-Fixed-Mobile	8CAFIRE2	3, 8, 11, 13, 22	851.91250	156.7	806.91250	156.7	4Khz	H	A	
48	Base-Fixed-Mobile	8CALL90	3, 11, 13, 22	851.01250	156.7	806.01250	156.7	4Khz	H	A	
49	Base-Fixed-Mobile	8TAC91	3, 11, 13, 22	851.51250	156.7	806.51250	156.7	4Khz	H	A	
50	Base-Fixed-Mobile	8TAC92	3, 11, 13, 22	852.01250	156.7	807.01250	156.7	4Khz	H	A	
51	Base-Fixed-Mobile	8TAC93	3, 11, 13, 22	852.51250	156.7	807.51250	156.7	4Khz	H	A	
52	Base-Fixed-Mobile	8TAC94	3, 11, 13, 22	853.01250	156.7	808.01250	156.7	4Khz	H	A	

Controlled Unclassified Information Basic

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The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow (6.25 kHz), narrow (12.5 kHz) or wide band (25 kHz). Mode refers to either "A" indicating Analog, "D" indicating Digital (e.g. Project 25) or "M" indicating Mixed Mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeaters (and depending on use, base stations) must be programmed with the Rx and Tx reversed.

CALIFORNIA STANDARD 32 TONES / 32 NACS

TONE #	CTCSS	NAC #	NAC
1	110.9	1	\$455
2	123.0	2	\$4CE
3	131.8	3	\$526
4	136.5	4	\$555
5	146.2	5	\$5B6
6	156.7	6	\$61F
7	167.9	7	\$68F
8	103.5	8	\$40B
9	100.0	9	\$3E8
10	107.2	10	\$430
11	114.8	11	\$47C
12	127.3	12	\$4F9
13	141.3	13	\$585
14	151.4	14	\$5EA
15	162.2	15	\$656
16	192.8	16	\$788
17	67.0	17	\$29E
18	71.9	18	\$2CF
19	74.4	19	\$2E8
20	77.0	20	\$302
21	79.7	21	\$31D
22	82.5	22	\$339
23	85.4	23	\$356
24	88.5	24	\$375
25	91.5	25	\$393
26	94.8	26	\$3B4
27	97.4	27	\$3CE
28	118.8	28	\$4A4
29	173.8	29	\$6CA
30	179.9	30	\$707
31	186.2	31	\$746
32	203.5	32	\$7F3

Network Access Code (NAC)	\$293	"Default" NAC
Network Access Code (NAC)	\$F7E	Rx EVERYTHING regardless of NAC
NAC conversion "\$" indicates hexadecimal value		