



Multi-Agency Coordination System

Radio Communications Guidelines

MACS 441-1

March 2018

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
2524 Mulberry Street
Riverside, CA 92501-2200
(951) 782-4174
Fax (951) 782-4239
www.firescope.org

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.

Contents

| | |
|---|----|
| FIRESCOPE radio communications guidelines | 1 |
| Important communications issues | 1 |
| FIRESCOPE statewide channel plan | 3 |
| Usage notes for ICS 217A communications resource worksheets | 3 |
| FIRESCOPE Statewide channel plan, VHF 217A | 6 |
| FIRESCOPE Statewide channel plan, UHF 217A | 12 |
| FIRESCOPE Statewide channel plan, 700/800 217A | 14 |
| California standard 32 tones | 17 |

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.

There are one hundred **and seven (107)** VHF channels that should be pre-programmed into all VHF radios utilized by fire service agencies providing mutual aid in California (see the FIRESCOPE STATEWIDE CHANNEL PLAN).

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.

IMPORTANT COMMUNICATIONS ISSUES

Travel Channel

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 (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.

Narrowbanding

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

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 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.
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 keeping 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) and ReIm/Bendix King (BK) EPH radios, or any non-narrow band compliant radios, 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.**

FIRESCOPE STATEWIDE CHANNEL PLAN

The FIRESCOPE Statewide Channel Plan was developed to assist California Fire Service agencies in buying and programming synthesized radios so as 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:

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 following thirty-two standard tones 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, then program tones 1 through 16.

| | | | | | | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|--|--|
| 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 | | |
| 17. | 67.0 | 18. | 71.9 | 19. | 74.4 | 20. | 77.0 | 21. | 79.7 | 22. | 82.5 | 23. | 85.4 | 24. | 88.5 | | |
| 25. | 91.5 | 26. | 94.8 | 27. | 97.4 | 28. | 118.8 | 29. | 173.8 | 30. | 179.9 | 31. | 186.2 | 32. | 203.5 | | |
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. AIR GUARD – 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 AIR GUARD programmed in the last available channel slot of all portable radios. Communications Unit Leaders shall place AIR GUARD in channel slot 16 (Bendix-King GPH & DPH and other manufacturers who use 16 channels in a zone/group) and channel slot 20 (Bendix-King GPH-CMD and DPH-CMD).

AIR GUARD 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 (no tone) 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.

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 HIGH BAND | | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
| 1 | Simplex – Air/Mo | AIRGUARD | EMERGENCY ONLY | 168.6250 | CSQ | 168.6250 | Tone 1 110.9 | N | H | A | Usage Note 9 |
| 2 | Simplex – Mo only | CALCORD | Cal-OES | 156.0750 | Tone 6 156.7 | 156.0750 | Tone 6 156.7 | N | H | A | Usage Note 2 |
| 3 | Simplex – Air/Mo | CDF A/G 1 | Cal-Fire | 151.2200 | Tone 16 192.8 | 151.2200 | Tone 16 192.8 | N | L | A | Usage Note 4 |
| 4 | Simplex – Air/Mo | CDF A/G 2 | Cal-Fire | 159.2625 | Tone 16 192.8 | 159.2625 | Tone 16 192.8 | N | L | A | Usage Note 4 |
| 5 | Simplex – Air/Mo | CDF A/G 3 | Cal-Fire | 159.3675 | Tone 16 192.8 | 159.3675 | Tone 16 192.8 | N | L | A | Usage Note 4 |
| 6 | Repeater Pair | CDF C1 | Cal-Fire | 151.3550 | Tone 8 103.5 | 159.3000 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 7 | Repeater Pair | CDF C2 | Cal-Fire | 151.2650 | Tone 8 103.5 | 159.3300 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 8 | Repeater Pair | CDF C3 | Cal-Fire | 151.3400 | Tone 8 103.5 | 159.3450 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 9 | Repeater Pair | CDF C4 | Cal-Fire | 151.4000 | Tone 8 103.5 | 159.3750 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 10 | Repeater Pair | CDF C5 | Cal-Fire | 151.3175 | Tone 8 103.5 | 159.3525 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 11 | Repeater Pair | CDF C6 | Cal-Fire | 151.2500 | Tone 8 103.5 | 159.3600 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 12 | Repeater Pair | CDF C7 | Cal-Fire | 151.4600 | Tone 8 103.5 | 159.3900 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 13 | Repeater Pair | CDF C8 | Cal-Fire | 151.4450 | Tone 8 103.5 | 159.3450 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 14 | Repeater Pair | CDF C9 | Cal-Fire | 151.1750 | Tone 8 103.5 | 159.4500 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 15 | Repeater Pair | CDF C10 | Cal-Fire | 151.1900 | Tone 8 103.5 | 159.2250 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 16 | Repeater Pair | CDF C11 | Cal-Fire | 151.1675 | Tone 8 103.5 | 159.3975 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 17 | Repeater Pair | CDF C12 | Cal-Fire | 151.2425 | Tone 8 103.5 | 159.2625 | OST | N | H | A | Usage Note 3, 6, 11, 13 |
| 18 | Simplex – Mo only | CDF T1 | Cal-Fire | 151.2575 | Tone 16 192.8 | 151.2575 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 19 | Simplex – Mo only | CDF T2 | Cal-Fire | 151.1600 | Tone 16 192.8 | 151.1600 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 20 | Simplex – Mo only | CDF T3 | Cal-Fire | 151.1750 | Tone 16 192.8 | 151.1750 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wide band. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | Description | | |
|--|-----------------------|---|----------------|----------|------------------|----------------|------------------|--------|--|----------------|-----------------|
| | | | | | | VHF HIGH BAND | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
| 21 | Simplex – Mo only | CDF T4 | Cal-Fire | 151.1900 | Tone 16 192.8 | 151.1900 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 22 | Simplex – Mo only | CDF T5 | Cal-Fire | 151.2500 | Tone 16 192.8 | 151.2500 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 23 | Simplex – Mo only | CDF T6 | Cal-Fire | 151.3250 | Tone 16 192.8 | 151.3250 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 24 | Simplex – Mo only | CDF T7 | Cal-Fire | 151.3400 | Tone 16 192.8 | 151.3400 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 25 | Simplex – Mo only | CDF T8 | Cal-Fire | 151.3700 | Tone 16 192.8 | 151.3700 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 26 | Simplex – Mo only | CDF T9 | Cal-Fire | 151.3850 | Tone 16 192.8 | 151.3850 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 27 | Simplex – Mo only | CDF T10 | Cal-Fire | 151.4000 | Tone 16 192.8 | 151.4000 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 28 | Simplex – Mo only | CDF T11 | Cal-Fire | 151.4450 | Tone 16 192.8 | 151.4450 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 29 | Simplex – Mo only | CDF T12 | Cal-Fire | 151.4600 | Tone 16 192.8 | 151.4600 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 30 | Simplex – Mo only | CDF T13 | Cal-Fire | 151.3775 | Tone 16 192.8 | 151.3775 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 31 | Simplex – Mo only | CDF T14 | Cal-Fire | 159.2250 | Tone 16 192.8 | 159.2250 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 32 | Simplex – Mo only | CDF T15 | Cal-Fire | 159.2700 | Tone 16 192.8 | 159.2700 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 33 | Simplex – Mo only | CDF T16 | Cal-Fire | 159.2850 | Tone 16 192.8 | 159.2850 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 34 | Simplex – Mo only | CDF T17 | Cal-Fire | 159.3150 | Tone 16 192.8 | 159.3150 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 35 | Simplex – Mo only | CDF T18 | Cal-Fire | 159.3450 | Tone 16 192.8 | 159.3450 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 36 | Simplex – Mo only | CDF T19 | Cal-Fire | 159.3600 | Tone 16 192.8 | 159.3600 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 37 | Simplex – Mo only | CDF T20 | Cal-Fire | 159.3750 | Tone 16 192.8 | 159.3750 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 38 | Simplex – Mo only | CDF T21 | Cal-Fire | 159.3900 | Tone 16 192.8 | 159.3900 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 39 | Simplex – Mo only | CDF T22 | Cal-Fire | 159.4050 | Tone 16 192.8 | 159.4050 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 40 | Simplex – Mo only | CDF T23 | Cal-Fire | 159.4500 | Tone 16 192.8 | 159.4500 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wide band. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | Description | | |
|--|-----------------------|---|----------------|----------|------------------|----------------|------------------|--------|--|----------------|-------------------------------|
| | | | | | | VHF HIGH BAND | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | | |
| Controlled Unclassified Information//Basic | | | | | | | | | | | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
| 41 | Simplex – Mo only | CDF T24 | Cal-Fire | 151.3325 | Tone 16 192.8 | 151.3325 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 42 | Simplex – Mo only | CDF T25 | Cal-Fire | 159.2775 | Tone 16 192.8 | 159.2775 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 43 | Simplex – Mo only | CDF T26 | Cal-Fire | 159.2925 | Tone 16 192.8 | 159.2925 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 44 | Simplex – Mo only | CDF T27 | Cal-Fire | 159.3075 | Tone 16 192.8 | 159.3075 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 45 | Simplex – Mo only | CDF T28 | Cal-Fire | 151.1825 | Tone 16 192.8 | 151.1825 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 46 | Simplex – Mo only | CDF T29 | Cal-Fire | 151.3475 | Tone 16 192.8 | 151.3475 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 47 | Simplex – Mo only | CDF T30 | Cal-Fire | 151.3925 | Tone 16 192.8 | 151.3925 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 48 | Simplex – Mo only | CDF T31 | Cal-Fire | 159.3825 | Tone 16 192.8 | 159.3825 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 49 | Simplex – Mo only | CDF T32 | Cal-Fire | 151.2425 | Tone 16 192.8 | 151.2425 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 50 | Simplex – Mo only | CDF T33 | Cal-Fire | 159.2625 | Tone 16 192.8 | 159.2625 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 51 | Simplex – Mo only | CDF T34 | Cal-Fire | 151.4675 | Tone 16 192.8 | 151.4675 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 52 | Simplex – Mo only | CDF T35 | Cal-Fire | 159.3225 | Tone 16 192.8 | 159.3225 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 53 | Simplex – Mo only | CDF T36 | Cal-Fire | 151.1525 | Tone 16 192.8 | 151.1525 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 54 | Simplex – Mo only | CDF T37 | Cal-Fire | 159.3375 | Tone 16 192.8 | 159.3375 | Tone 16 192.8 | N | L | A | Usage Note 4, 6 |
| 55 | Repeater Pair | CESRS | Cal-OES | 153.7550 | Tone 16 192.8 | 154.9800 | OST | N | L | A | Usage Note 3, 10, 11, 12, 13 |
| 56 | Simplex–Mo only | CESRS-D | CA Travel Net | 153.7550 | CSQ | 153.7550 | NONE | N | H | A | Usage Note 10, 11, 12 |
| 57 | Repeater Pair | NIFC C-8 / NC1 | NIFC/NIFOG | 169.5375 | CSQ | 164.7125 | OST | N | L | A | Usage Note 3, 4, 5, 11, 13-15 |
| 58 | Repeater Pair | NIFC C-9 / IR1 | NIFC/NIFOG | 170.0125 | CSQ | 165.2500 | OST | N | L | A | Usage Note 3, 4, 5, 11, 13-15 |
| 59 | Repeater Pair | NIFC C-10 / IR2 | NIFC/NIFOG | 170.4125 | CSQ | 165.9625 | OST | N | L | A | Usage Note 3, 4, 5, 11, 13-15 |
| 60 | Repeater Pair | NIFC C-11 / IR3 | NIFC/NIFOG | 170.6875 | CSQ | 166.5750 | OST | N | L | A | Usage Note 3, 4, 5, 11, 13-15 |

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wide band. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | | Description | |
|--|-----------------------|---|--------------------|----------|-----------------|----------------|-----------------|--------|-----|--|-------------------------------|
| | | | | | | VHF HIGH BAND | | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
| 61 | Repeater Pair | NIFC C-12 / IR4 | NIFC/NIFOG | 173.0375 | CSQ | 167.3250 | OST | N | L | A | Usage Note 3, 4, 5, 11, 13-15 |
| 62 | Repeater Pair | OES 1A | Cal-OES "Fire Net" | 154.1600 | CSQ | 159.1350 | OST | N | H | A | Usage Note 3, 11, 13 |
| 63 | Repeater Pair | OES 1B | Cal-OES "Fire Net" | 154.1600 | CSQ | 159.1950 | OST | N | H | A | Usage Note 3, 11, 13 |
| 64 | Repeater Pair | OES 2A | Cal-OES "Fire Net" | 154.2200 | CSQ | 159.1350 | OST | N | H | A | Usage Note 3, 11, 13 |
| 65 | Repeater Pair | OES 2B | Cal-OES "Fire Net" | 154.2200 | CSQ | 159.1950 | OST | N | H | A | Usage Note 3, 11, 13 |
| 66 | Simplex – Base/Mo | VFIRE21 | Natl Fire Interop | 154.2800 | Tone 6 156.7 | 154.2800 | Tone 6 156.7 | N | H | A | Usage Note 1 |
| 67 | Simplex – Mo only | VFIRE22 | Natl Fire Interop | 154.2650 | Tone 6 156.7 | 154.2650 | Tone 6 156.7 | N | L | A | Usage Note 1, 4 |
| 68 | Simplex – Mo only | VFIRE23 | Natl Fire Interop | 154.2950 | Tone 6 156.7 | 154.2950 | Tone 6 156.7 | N | L | A | Usage Note 1, 4 |
| 69 | Simplex – Mo only | VFIRE24 | Natl Fire Interop | 154.2725 | Tone 6 156.7 | 154.2725 | Tone 6 156.7 | N | L | A | Usage Note 1, 4 |
| 70 | Simplex – Mo only | VFIRE25 | Natl Fire Interop | 154.2875 | Tone 6 156.7 | 154.2875 | Tone 6 156.7 | N | L | A | Usage Note 1, 4 |
| 71 | Simplex – Mo only | VFIRE26 | Natl Fire Interop | 154.3025 | Tone 6 156.7 | 154.3025 | Tone 6 156.7 | N | L | A | Usage Note 1, 4 |
| 72 | Simplex – Base/Mo | VCALL10 | National Interop | 155.7525 | CSQ | 155.7525 | Tone 6 156.7 | N | H | A | Usage Note 7 |
| 73 | Simplex – Base/Mo | VTAC11 | National Interop | 151.1375 | Tone 6 156.7 | 151.1375 | Tone 6 156.7 | N | L | A | Usage Note 4, 7 |
| 74 | Simplex – Base/Mo | VTAC12 | National Interop | 154.4525 | Tone 6 156.7 | 154.4525 | Tone 6 156.7 | N | L | A | Usage Note 4, 7 |
| 75 | Simplex – Base/Mo | VTAC13 | National Interop | 158.7375 | Tone 6 156.7 | 158.7375 | Tone 6 156.7 | N | L | A | Usage Note 4, 7 |
| 76 | Simplex – Base/Mo | VTAC14 | National Interop | 159.4725 | Tone 6 156.7 | 159.4725 | Tone 6 156.7 | N | L | A | Usage Note 4, 7 |
| 77 | Portable Repeater | VTAC33 | National Interop | 159.4725 | Tone 6 156.7 | 151.1375 | Tone 4 136.5 | N | L | A | Usage Note 4, 7 |
| 78 | Portable Repeater | VTAC34 | National Interop | 158.7375 | Tone 6 156.7 | 154.4525 | Tone 4 136.5 | N | L | A | Usage Note 4, 7 |
| 79 | Portable Repeater | VTAC35 | National Interop | 159.4725 | Tone 6 156.7 | 158.7375 | Tone 4 136.5 | N | L | A | Usage Note 4, 7 |
| 80 | Portable Repeater | VTAC36 | National Interop | 151.1375 | Tone 6 156.7 | 159.4725 | Tone 4 136.5 | N | L | A | Usage Note 4, 7 |

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wide band. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | Description | | | |
|--|-----------------------|--|------------------|----------|-------------------|----------------|-------------------|-----------|--|-------------------|-----------------|--|
| | | | | | | VHF HIGH BAND | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | | | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks | |
| 81 | Portable Repeater | VTAC37 | National Interop | 154.4525 | Tone 6 156.7 | 158.7375 | Tone 4 136.5 | N | L | A | Usage Note 4, 7 | |
| 82 | Portable Repeater | VTAC38 | National Interop | 158.7375 | Tone 6 156.7 | 159.4725 | Tone 4 136.5 | N | L | A | Usage Note 4, 7 | |
| 83 | Simplex – Base/Mo | VSAR16 | Cal-OES | 155.1600 | Tone 12 127.3 | 155.1600 | Tone 12 127.3 | N | H | A | Usage Note 4 | |
| 84 | Simplex – Base/Mo | VMED28 | National Interop | 155.3400 | Tone 6 156.7 | 155.3400 | Tone 6 156.7 | N | H | A | Usage Note 4, 7 | |
| 85 | Simplex – Base/Mo | VMED29 | National Interop | 155.3475 | Tone 6 156.7 | 155.3475 | Tone 6 156.7 | N | H | A | Usage Note 4, 7 | |

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wide band. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | | Description | |
|--|-----------------------|--|----------------|----------|-------------------|----------------|-------------------|-----------|-----|--|--------------------------------|
| | | | | | | VHF HIGH BAND | | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
| 86 | Repeater Pair | NIFC C-1 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 11, 13, 14 |
| 87 | Repeater Pair | NIFC C-2 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 11, 13, 14 |
| 88 | Repeater Pair | NIFC C-3 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 11, 13, 14 |
| 89 | Repeater Pair | NIFC C-4 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 11, 13, 14 |
| 90 | Repeater Pair | NIFC C-5 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 11, 13, 14 |
| 91 | Repeater Pair | NIFC C-6 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 11, 13, 14 |
| 92 | Simplex – Mo only | NIFC T-1 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 13, 14 |
| 93 | Simplex – Mo only | NIFC T-2 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 13, 14 |
| 94 | Simplex – Mo only | NIFC T-3 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 13, 14 |
| 95 | Simplex – Mo only | NIFC T-5 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 13, 14 |
| 96 | Simplex – Mo only | NIFC T-6 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 13, 14 |
| 97 | Simplex – Mo only | NIFC T-7 | NIFC/NIRSC | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 5, 13, 14 |
| 98 | Simplex – Air/Mo | A/G 08 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 99 | Simplex – Air/Mo | A/G 14 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 100 | Simplex – Air/Mo | A/G 24 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 101 | Simplex – Air/Mo | A/G 41 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 102 | Simplex – Air/Mo | A/G 43 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 103 | Simplex – Air/Mo | A/G 53 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 104 | Simplex – Air/Mo | A/G 59 | NIFC/NIRSC | Redacted | CSQ | Redacted | NONE | N | L | A | Usage Note 4, 5, 6, 14 |
| 105 | Simplex – Mo only | R5 T-4 | USFS R5 Fire | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 6, 13, 14 |
| 106 | Simplex – Mo only | R5 T-5 | USFS R5 Fire | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 6, 13, 14 |
| 107 | Simplex – Mo only | R5 T-6 | USFS R5 Fire | Redacted | CSQ | Redacted | OST | N | L | A | Usage Note 3, 4, 6, 13, 14 |

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wideband. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | Description | | | |
|--|-----------------------|--|----------------------|----------|-------------------|----------------|-------------------|-----------|--|-------------------|-------------------------------------|--|
| | | | | | | UHF & UHF-T | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | | | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks | |
| 1 | Simplex – Mo only | FDUMA | Cal-OES Fire Interop | 487.2375 | Tone 6 156.7 | 487.2375 | Tone 6 156.7 | N | H | A | Cal-OES Interop in LAC ONLY | |
| 2 | Repeater Pair | UCALL40 | National Interop | 453.2125 | CSQ | 458.2125 | Tone 6 156.7 | N | H | A | Usage Note 3, 7, 11, 13 | |
| 3 | Repeater Pair | UTAC41 | National Interop | 453.4625 | CSQ | 458.4625 | OST | N | H | A | Usage Note 3, 7, 11, 13 | |
| 4 | Repeater Pair | UTAC42 | National Interop | 453.7125 | CSQ | 458.7125 | OST | N | H | A | Usage Note 3, 7, 11, 13 | |
| 5 | Repeater Pair | UTAC43 | National Interop | 453.8625 | CSQ | 458.8625 | OST | N | H | A | Usage Note 3, 7, 11, 13 | |
| 6 | Repeater Pair | NC 2 CALL | Fed Interop | 410.2375 | Tone 7 167.9 | 419.2375 | Tone 7 167.9 | N | H | A | CALLING | |
| 7 | Repeater Pair | IR 10 | Fed Interop | 410.4375 | Tone 7 167.9 | 419.4375 | Tone 7 167.9 | N | H | A | | |
| 8 | Repeater Pair | IR 11 | Fed Interop | 410.6375 | Tone 7 167.9 | 419.6375 | Tone 7 167.9 | N | H | A | | |
| 9 | Repeater Pair | IR 12 | Fed Interop | 410.8375 | Tone 7 167.9 | 419.8375 | Tone 7 167.9 | N | H | A | SAR Incident Command | |
| 10 | Simplex | IR 13 | Fed Interop | 413.1875 | Tone 7 167.9 | 413.1875 | Tone 7 167.9 | N | H | A | | |
| 11 | Simplex | IR 14 | Fed Interop | 413.2125 | Tone 7 167.9 | 413.2125 | Tone 7 167.9 | N | H | A | Interagency Convoy | |
| 12 | Simplex | IR 15 | Fed Interop | 410.2375 | Tone 7 167.9 | 410.2375 | Tone 7 167.9 | N | H | A | CALLING (Direct) | |
| 13 | Simplex | IR 16 | Fed Interop | 410.4375 | Tone 7 167.9 | 410.4375 | Tone 7 167.9 | N | H | A | Direct for IR 10 | |
| 14 | Simplex | IR 17 | Fed Interop | 410.6375 | Tone 7 167.9 | 410.6375 | Tone 7 167.9 | N | H | A | Direct for IR 11 | |
| 15 | Simplex | IR 18 | Fed Interop | 410.8375 | Tone 7 167.9 | 410.8375 | Tone 7 167.9 | N | H | A | Direct for IR 12 - SAR Incident Cmd | |
| 16 | Repeater Pair | MED 1 | Fire/EMS | 463.0000 | CSQ | 468.0000 | OST | N | H | A | Usage Note 3, 13 | |
| 17 | Repeater Pair | MED 2 | Fire/EMS | 463.0250 | CSQ | 468.0250 | OST | N | H | A | Usage Note 3, 13 | |
| 18 | Repeater Pair | MED 3 | Fire/EMS | 463.0500 | CSQ | 468.0500 | OST | N | H | A | Usage Note 3, 13 | |
| 19 | Repeater Pair | MED 4 | Fire/EMS | 463.0750 | CSQ | 468.0750 | OST | N | H | A | Usage Note 3, 13 | |
| 20 | Repeater Pair | MED 5 | Fire/EMS | 463.1000 | CSQ | 468.1000 | OST | N | H | A | Usage Note 3, 13 | |

The convention calls for frequency lists to show four digits after the decimal place. The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow, narrow, or wide band. 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.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | Description | | | |
|--|-----------------------|--|----------------|----------|-------------------|----------------|-------------------|-----------|--|-------------------|------------------|--|
| | | | | | | UHF & UHF-T | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | | | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks | |
| 21 | Repeater Pair | MED 6 | Fire/EMS | 463.1250 | CSQ | 468.1250 | OST | N | H | A | Usage Note 3, 13 | |
| 22 | Repeater Pair | MED 7 | Fire/EMS | 463.1500 | CSQ | 468.1500 | OST | N | H | A | Usage Note 3, 13 | |
| 23 | Repeater Pair | MED 8 | Fire/EMS | 463.1750 | CSQ | 468.1750 | OST | N | H | A | Usage Note 3, 13 | |
| 24 | Repeater Pair | MED 9 | Fire/EMS | 462.9500 | CSQ | 467.9500 | OST | N | H | A | Usage Note 3, 13 | |
| 25 | Repeater Pair | MED 10 | Fire/EMS | 462.9750 | CSQ | 467.9750 | OST | N | H | A | Usage Note 3, 13 | |
| 26 | Repeater Pair | MED 12 | Fire/EMS | 463.0125 | CSQ | 468.0125 | OST | N | H | A | Usage Note 3, 13 | |
| 27 | Repeater Pair | MED 22 | Fire/EMS | 463.0375 | CSQ | 468.0375 | OST | N | H | A | Usage Note 3, 13 | |
| 28 | Repeater Pair | MED 32 | Fire/EMS | 463.0625 | CSQ | 468.0625 | OST | N | H | A | Usage Note 3, 13 | |
| 29 | Repeater Pair | MED 42 | Fire/EMS | 463.0875 | CSQ | 468.0875 | OST | N | H | A | Usage Note 3, 13 | |
| 30 | Repeater Pair | MED 52 | Fire/EMS | 463.1125 | CSQ | 468.1125 | OST | N | H | A | Usage Note 3, 13 | |
| 31 | Repeater Pair | MED 62 | Fire/EMS | 463.1375 | CSQ | 468.1375 | OST | N | H | A | Usage Note 3, 13 | |
| 32 | Repeater Pair | MED 72 | Fire/EMS | 463.1625 | CSQ | 468.1625 | OST | N | H | A | Usage Note 3, 13 | |
| 33 | Repeater Pair | MED 82 | Fire/EMS | 463.1875 | CSQ | 468.1875 | OST | N | H | A | Usage Note 3, 13 | |
| 34 | Repeater Pair | MED 92 | Fire/EMS | 462.9625 | CSQ | 467.9625 | OST | N | H | A | Usage Note 3, 13 | |
| 35 | Repeater Pair | MED 102 | Fire/EMS | 462.9875 | CSQ | 467.9875 | OST | N | H | A | Usage Note 3, 13 | |

The convention calls for frequency lists to show four digits after the decimal place. The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow, narrow, or wide band. 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.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | | Description | |
|--|-----------------------|--|-------------------|-----------|-------------------|----------------|-------------------|-----------|-----|--|-----------------------|
| | | | | | | 700 & 800 MHz | | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
| 1 | Base-Fixed-Mobile | 7CALL50 | National Interop | 769.24375 | \$F7E | 799.24375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 2 | Base-Fixed-Mobile | 7TAC51 | National Interop | 769.14375 | \$F7E | 799.14375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 3 | Base-Fixed-Mobile | 7TAC52 | National Interop | 769.64375 | \$F7E | 799.64375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 4 | Base-Fixed-Mobile | 7TAC53 | National Interop | 770.14375 | \$F7E | 800.14375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 5 | Base-Fixed-Mobile | 7TAC54 | National Interop | 770.64375 | \$F7E | 800.64375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 6 | Base-Fixed-Mobile | 7TAC55 | National Interop | 769.74375 | \$F7E | 799.74375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 7 | Base-Fixed-Mobile | 7TAC56 | National Interop | 770.24375 | \$F7E | 800.24375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 8 | Base-Fixed-Mobile | 7GTAC57 | National Interop | 770.99375 | \$F7E | 800.99375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 9 | Base-Fixed-Mobile | 7MOB59 | National Interop | 770.89375 | \$F7E | 800.89375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 10 | Base-Fixed-Mobile | 7LAW61 | Natl LE Interop | 770.39375 | \$F7E | 800.39375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 11 | Base-Fixed-Mobile | 7LAW62 | Natl LE Interop | 770.49375 | \$F7E | 800.49375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 12 | Base-Fixed-Mobile | 7FIRE63 | Natl Fire Interop | 769.89375 | \$F7E | 799.89375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 13 | Base-Fixed-Mobile | 7FIRE64 | Natl Fire Interop | 769.99375 | \$F7E | 799.99375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 14 | Base-Fixed-Mobile | 7MED65 | Natl EMS Inteorp | 769.39375 | \$F7E | 799.39375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 15 | Base-Fixed-Mobile | 7MED66 | Natl EMS Inteorp | 769.49375 | \$F7E | 799.49375 | OST | N | H | D | Usage Note 3, 11, 13 |
| 16 | Base-Fixed-Mobile | 7DATA69 | Natl Mobile Data | 770.74375 | \$F7E | 800.74375 | OST | N | X | D | NO Voice Tx Permitted |
| 17 | Base-Fixed-Mobile | 7CALL70 | National Interop | 773.25625 | \$F7E | 803.25625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 18 | Base-Fixed-Mobile | 7TAC71 | National Interop | 773.10625 | \$F7E | 803.10625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 19 | Base-Fixed-Mobile | 7TAC72 | National Interop | 773.60625 | \$F7E | 803.60625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 20 | Base-Fixed-Mobile | 7TAC73 | National Interop | 774.10625 | \$F7E | 804.10625 | OST | N | H | D | Usage Note 3, 11, 13 |

The convention calls for frequency lists to show four digits after the decimal place. The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow, narrow, or wide band. 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.

| | | |
|--|--------------------------|--|
| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | Frequency Band | Description |
| | 700 & 800 MHz | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 |

| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks |
|----|-----------------------|---|----------------------|-----------|-----------------|-----------|----------------|--------|-----|----------------|---|
| 21 | Base-Fixed-Mobile | 7TAC74 | National Interop | 774.60625 | \$F7E | 804.60625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 22 | Base-Fixed-Mobile | 7TAC75 | National Interop | 773.75625 | \$F7E | 803.75625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 23 | Base-Fixed-Mobile | 7TAC76 | National Interop | 774.25625 | \$F7E | 804.25625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 24 | Base-Fixed-Mobile | 7GTAC77 | National Interop | 774.85625 | \$F7E | 804.85625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 25 | Base-Fixed-Mobile | 7MOB79 | National Interop | 774.50625 | \$F7E | 804.50625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 26 | Base-Fixed-Mobile | 7LAW81 | Natl LE Interop | 774.00625 | \$F7E | 804.00625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 27 | Base-Fixed-Mobile | 7LAW82 | Natl LE Interop | 774.35625 | \$F7E | 804.35625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 28 | Base-Fixed-Mobile | 7FIRE83 | Natl Fire Interop | 773.50625 | \$F7E | 803.50625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 29 | Base-Fixed-Mobile | 7FIRE84 | Natl Fire Interop | 773.85625 | \$F7E | 803.85625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 30 | Base-Fixed-Mobile | 7MED86 | Natl EMS Inteorp | 773.00625 | \$F7E | 803.00625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 31 | Base-Fixed-Mobile | 7MED87 | Natl EMS Inteorp | 773.35625 | \$F7E | 803.35625 | OST | N | H | D | Usage Note 3, 11, 13 |
| 32 | Base-Fixed-Mobile | 7DATA89 | Natl Mobile Data | 774.75625 | \$F7E | 804.75625 | OST | N | X | D | Voice Tx permitted on a secondary basis |
| 33 | Air-Mobile-Portable | 7AG58 | All Public Safety | 769.13125 | \$F7E | 779.13125 | \$293 | N | L | D | May use in simplex mode as well |
| 34 | Air-Mobile-Portable | 7AG60 | All Public Safety | 769.63125 | \$F7E | 779.63125 | \$293 | N | L | D | May use in simplex mode as well |
| 35 | Air-Mobile-Portable | 7AG67 | All Public Safety | 770.13125 | \$F7E | 800.13125 | \$293 | N | L | D | May use in simplex mode as well |
| 35 | Air-Mobile-Portable | 7AG68 | All Public Safety | 770.63125 | \$F7E | 800.63125 | \$293 | N | L | D | May use in simplex mode as well |
| 36 | Air-Mobile-Portable | 7AG78 | All Public Safety | 773.11875 | \$F7E | 803.11875 | \$293 | N | L | D | May use in simplex mode as well |
| 37 | Air-Mobile-Portable | 7AG80 | All Public Safety | 773.61875 | \$F7E | 803.61875 | \$293 | N | L | D | May use in simplex mode as well |
| 38 | Air-Mobile-Portable | 7AG85 | All Public Safety | 774.11875 | \$F7E | 804.11875 | \$293 | N | L | D | May use in simplex mode as well |
| 39 | Air-Mobile-Portable | 7AG88 | All Public Safety | 774.61875 | \$F7E | 804.61875 | \$293 | N | L | D | May use in simplex mode as well |
| 40 | Base-Fixed-Mobile | 8CAFIRE1 | Cal-OES Fire Interop | 853.98750 | Tone 6 156.7 | 808.98750 | OST | W | H | A | Usage Note 3, 11, 13 |

The convention calls for frequency lists to show four digits after the decimal place. The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow, narrow, or wide band. 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.

| COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET - ICS 217A | | | | | | Frequency Band | | | Description | | | |
|--|-----------------------|--|----------------------|-----------|-------------------|----------------|-------------------|-----------|--|-------------------|-------------------------|--|
| | | | | | | 700 & 800 MHz | | | FIRESCOPE STATEWIDE CHANNEL PLAN 2018 | | | |
| Ch | Channel Configuration | Channel Name/Trunked Radio System Talkgroup | Eligible Users | RX Freq | RX Tone or CSQ | TX Freq | Tx Tone or NAC | N or W | Pwr | Mode A, D or M | Remarks | |
| 41 | Base-Fixed-Mobile | 8CAFIRE2 | Cal-OES Fire Interop | 851.91250 | Tone 6 156.7 | 806.91250 | OST | W | H | A | Usage Note 3, 8, 11, 13 | |
| 42 | Base-Fixed-Mobile | FIREMARS | Cal-OES Fire Interop | 868.98750 | Tone 6 156.7 | 823.98750 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 44 | Base-Fixed-Mobile | 8CALL90 | Mutual Aid | 851.01250 | 156.7 | 806.01250 | 156.7 | W | H | A | Usage Note 3, 11, 13 | |
| 45 | Base-Fixed-Mobile | 8TAC91 | Mutual Aid | 851.51250 | 156.7 | 806.51250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 46 | Base-Fixed-Mobile | 8TAC92 | Mutual Aid | 852.01250 | 156.7 | 807.01250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 47 | Base-Fixed-Mobile | 8TAC93 | Mutual Aid | 852.51250 | 156.7 | 807.51250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 48 | Base-Fixed-Mobile | 8TAC94 | Mutual Aid | 853.01250 | 156.7 | 808.01250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 49 | Base-Fixed-Mobile | ICALL | National Interop | 866.01250 | Tone 6 156.7 | 821.01250 | 156.7 | W | H | A | Usage Note 3, 11, 13 | |
| 50 | Base-Fixed-Mobile | ITAC1 | National Interop | 866.51250 | Tone 6 156.7 | 821.51250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 51 | Base-Fixed-Mobile | ITAC2 | National Interop | 867.01250 | Tone 6 156.7 | 822.01250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 52 | Base-Fixed-Mobile | ITAC3 | National Interop | 867.51250 | Tone 6 156.7 | 822.51250 | OST | W | H | A | Usage Note 3, 11, 13 | |
| 53 | Base-Fixed-Mobile | ITAC4 | National Interop | 868.01250 | Tone 6 156.7 | 823.01250 | OST | W | H | A | Usage Note 3, 11, 13 | |

The convention calls for frequency lists to show four digits after the decimal place. The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow, narrow, or wide band. 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

| TONE # | CTCSS | NAC |
|-----------|--------------|------------------|
| 1 | 110.9 | Tone 1 110.9 |
| 2 | 123.0 | Tone 2 123.0 |
| 3 | 131.8 | Tone 3 131.8 |
| 4 | 136.5 | Tone 4 136.5 |
| 5 | 146.2 | Tone 5 146.2 |
| 6 | 156.7 | Tone 6 156.7 |
| 7 | 167.9 | Tone 7 167.9 |
| 8 | 103.5 | Tone 8 103.5 |
| 9 | 100.0 | Tone 9 100.0 |
| 10 | 107.2 | Tone 10 107.2 |
| 11 | 114.8 | Tone 11 114.8 |
| 12 | 127.3 | Tone 12 127.3 |
| 13 | 141.3 | Tone 13 141.3 |
| 14 | 151.4 | Tone 14 151.4 |
| 15 | 162.2 | Tone 15 162.2 |
| 16 | 192.8 | Tone 16 192.8 |
| 17 | 67.0 | Tone 17 67.0 |
| 18 | 71.9 | Tone 18 71.9 |
| 19 | 74.4 | Tone 19 74.4 |
| 20 | 77.0 | Tone 20 77.0 |
| 21 | 79.7 | Tone 21 79.7 |
| 22 | 82.5 | Tone 22 82.5 |
| 23 | 85.4 | Tone 23 85.4 |
| 24 | 88.5 | Tone 24 88.5 |
| 25 | 91.5 | Tone 25 91.5 |
| 26 | 94.8 | Tone 26 94.8 |
| 27 | 97.4 | Tone 27 97.4 |
| 28 | 118.8 | Tone 28 118.8 |
| 29 | 173.8 | Tone 29 173.8 |
| 30 | 179.9 | Tone 30 179.9 |
| 31 | 186.2 | Tone 31 186.2 |
| 32 | 203.5 | Tone 32 203.5 |

| | | |
|----------------------------------|--------------|--|
| Network Access Code (NAC) | \$293 | "Default" NAC |
| Network Access Code (NAC) | \$F7E | Rx EVERYTHING regardless of NAC |