



FIRESCOPE Radio Communications Guidelines

MACS 441-1

MULTI-AGENCY COORDINATION SYSTEM PUBLICATION

APRIL 1, 2011

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

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

Cal EMA FIRESCOPE
Document Control
2524 Mulberry Street
Riverside, CA 92501-2200
(951) 782-4174
Fax (951) 784-3026
www.firescope.org

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 Highband is the default radio frequency band utilized by the California fire service. There are seventy-three (73) specific 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 Highband, should ensure that their mobile radios, portable radios, and dispatch centers are properly licensed and programmed to operate on the UHF and 800 MHz. interoperability channels contained within the FIRESCOPE STATEWIDE CHANNEL PLAN.

IMPORTANT COMMUNICATIONS ISSUES

Travel Channel

The **California Emergency Services Radio System (CESRS)** may be utilized as a travel channel in the simplex, direct mode only by federal, state, and local government agencies. Strike Teams or other resources in travel status should use the “CESRS Direct” talk-around channel for line-of-sight communications. Use of CESRS repeaters is currently not authorized for use as a travel net unless an executed use agreement is in place with Cal EMA. Communication Centers do not monitor this channel.

Narrowbanding

ALL VHF radios used on Federal Government radio channels and some State of California radio channels should have already been re-programmed within the last three years to accommodate the transition to narrowbanding.

The National Telecommunications and Information Administration (the Federal Government's frequency manager) mandated that the federal agency VHF frequencies be narrow-banded by January 1, 2005. Although the FCC rules provide that most state and local government frequencies are not required to be narrow-banded until December 31, 2012, this migration has already affected state and local government agencies. All CAL FIRE frequencies will be narrow-banded by May, 2011. All federal agency channels (including USFS, BLM, NPS and the NIFC National Incident Radio Support Cache radios) are now narrow-banded. In addition to the federal changes, certain State of California frequencies have been converted to narrowband operation.

Any non-compliant radio equipment used on narrowband channels may present a ***life-safety hazard*** for all users.

Radios that are not capable of narrowband technology should be completely taken out-of-service and not placed into service by another fire service agency (e.g. donations, personal

volunteer use, etc.). Any radios returned to the vendor or disposed of as surplus should have all programming deleted or crystals removed.

For additional information, see the Narrowband Migration Plan on the Communications Specialist Group page of the FIREScope website.

GUIDELINES

1. While numerous radio channels/talk-groups can be pre-programmed into radios, it is important to note that in order to transmit on those channels/talk-groups (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, 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/talk-group 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/talk-group for the incident. Generally, the initial contact channel will be VFIRE 22. Incident Communications Centers (ICC's) and Staging Area Managers should monitor WHITE 1 or another specified initial contact channel/talk-group to assist resources arriving at the incident.
3. Local policy will dictate radio channel/talk-group 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/talk-groups 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/talk-group names should be stated, e.g., "VFIRE 22," or "NIFC TAC 2." Channel/talk-group 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 2111, Battalion 2104" or "Division B, Strike Team 6412C"). Recognize that on large mutual aid incidents there may be several units with the same radio identification. In those cases, the agency name should also be used (e.g., Oceanside Engine 2111, Oceanside Battalion 2104").
7. 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., WHITE 1, VFIRE 22, VFIRE 23, 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/talk-groups 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 (CalSCIP).
11. Family Radio Service (FRS) radios are prohibited from use on Federal and State of California incidents. Use of any non-public safety radio (e.g., FRS, etc.) or use of a frequency/talk-group not identified on the Incident Radio Communications Plan (ICS Form 205) is prohibited on any incident.
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 tactical channel in a distant part of the state).

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 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. The WHITE channels require individual agency licensing from the FCC. WHITE channel operational policies are outlined in the California Emergency Management Agency (Cal EMA, formerly OES) Fire Operations Bulletin #28 and/or the California Statewide Communications Interoperability Plan (CalSCIP). Contact Cal EMA Fire and Rescue for information.
2. Use of CALCORD is subject to the CALCORD Plan, under an executed CALCORD agreement with Cal EMA and/or in accordance with the California Statewide Communications Interoperability Plan (CalSCIP). Contact Cal EMA Telecommunications for information.

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

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

- 4. **Important**- Some radios do not function properly on the following channels: V-CALL, V-TAC 12, and V-TAC 14. Note: Communications Unit Leaders should not assign those specific channels for incident use if it might be possible that Bendix-King EPH radios (including the current NIFC and possibly local government cache radios) might be utilized on their incident. Prior to use on an incident it is important to determine whether or not another manufacturer's radio models have V-CALL, V-TAC 12 or V-TAC 14 functioning problems.
- 5. Mobile transmitters are to be set to lowest available power setting on these channels (V-TAC's, U-TAC's, CAL FIRE Tacticals, NIFC Commands, NIFC Tacticals, etc.).
- 6. Use of the NIFC Commands and NIFC Tacticals 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.
- 7. 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/Southern Operations GACC or Northern Region Command Center/Northern Operations GACC.
- 8. Specific channel usage guidelines are still being determined, and will be published in the California Statewide Communications Interoperability Plan (CalSCIP). Until the CalSCIP is finalized, 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 (mobile transmit side only at this time).
- 9. 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).
- 10. Use as a fire and fire-based EMS single-agency or strike-team common channel is permitted. Tone 6 (156.7 Hz.) is used as the common tone (transmit and receive). Use is subject to an executed use agreement with Cal EMA until such time as the California Statewide Communications Interoperability Plan (CalSCIP) is finalized. Contact Cal EMA Telecommunications for information.

11. **Not available for use** in Imperial, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, and Ventura Counties.
12. 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 should encode a CTCSS of 110.9 Hz. All Incident Radio Communications Plans (ICS Form 205) on incidents that use federal or CAL FIRE aircraft should have AIR GUARD programmed in the last available channel slot of cache portable radios. Communications Unit Leaders should consider placing AIR GUARD in channel slot 14 (Bendix-King EPH), channel slot 16 (Bendix-King GPH and DPH and other manufacturers who use sixteen (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.
13. The California Emergency Services Radio System (CESRS) may be utilized as a travel channel in the simplex, direct mode only by federal, state, and local government agencies. Strike Teams or other resources in travel status should use the “CESRS Direct” talk-around channel for line-of-sight communications. Use of CESRS repeaters is currently not authorized for use as a travel channel unless an executed use agreement is in place with Cal EMA.
 14. Users with radios that are capable of switching between direct and repeat should program the repeater channel only.
 15. Users are encouraged to program their radios with MPL (Multiple Private Lines) capability, even on the UHF and 800Mhz bands.

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

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217-A 040111 Page 1 of 6			Frequency Band VHF HIGHBAND				Description FIRESCOPE STATEWIDE CHANNEL PLAN – 2011				
Channel Configuration	Channel Name/Trunked Radio System Talk-Group	Eligible Users	RX Freq	N or W	RX Tone/NAC	TX Freq	N or W	Tx Tone/NAC	Mode	Remarks	
Simplex – Base/Mo	WHITE 1	Fire	154.2800	N	None	Simplex		None	A	Usage Note 1	
Simplex – Mo only	VFIRE 22	Fire	154.2650	N	None	Simplex		None	A	Usage Note 1	
Simplex – Mo only	VFIRE 23	Fire	154.2950	N	None	Simplex		None	A	Usage Note 1	
Simplex – Mo only	CALCORD	Any Public Safety	156.0750	N	None	Simplex		None	A	Usage Note 2	
Simplex – Base/Mo	VCALL10	Any Public Safety	155.7525	N	None	Simplex		156.7	A	Usage Note 4, 8	
Simplex – Base/Mo	VTAC11	Any Public Safety	151.1375	N	None	Simplex		156.7	A	Usage Note 5, 8	
Simplex – Base/Mo	VTAC12	Any Public Safety	154.4525	N	None	Simplex		156.7	A	Usage Note 4, 5, 8	
Simplex – Base/Mo	VTAC13	Any Public Safety	158.7375	N	None	Simplex		156.7	A	Usage Note 5, 8	
Simplex – Base/Mo	VTAC14	Any Public Safety	159.4725	N	None	Simplex		156.7	A	Usage Note 4, 5, 8	
Simplex – Mo only	OES 1A	Fire	154.1600	N	None	Simplex		None	A		
Simplex – Mo only	OES 1B	Fire	154.1600	N	None	Simplex		None	A		
Simplex – Mo only	OES 2A	Fire	154.1600	N	None	Simplex		None	A		
Simplex – Mo only	OES 2B	Fire	154.2200	N	None	Simplex		None	A		
Simplex – Mo only	CESRS D	Travel Channel	153.7550	N	None	153.7550	N	None	A	Usage Note 13	
Repeater Pair	CESRS	Travel Channel	153.7550	N	None	154.9800	N	Multi	A	Usage Note 3, 13	
Repeater Pair	CDF C1	Fire	151.3550	N	None	159.3000	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C2	Fire	151.2650	N	None	159.3300	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C3	Fire	151.3400	N	None	159.3450	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C4	Fire	151.4000	N	None	159.3750	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C5	Fire	151.3175	N	None	159.3225	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C6	Fire	151.2500	N	None	159.3600	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C7	Fire	151.4600	N	None	159.3900	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C8	Fire	151.4450	N	None	159.3450	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C9	Fire	151.1750	N	None	159.4500	N	Multi	A	Usage Note 3, 7, 14, 15	
Repeater Pair	CDF C10	Fire	151.1900	N	None	159.2250	N	Multi	A	Usage Note 3, 7, 14, 15	
Simplex – Mo only	CDF T1	Fire	151.1450	N	None	Simplex		192.8	A	Usage Note 5, 7	
Simplex – Mo only	CDF T2	Fire	151.1600	N	None	Simplex		192.8	A	Usage Note 5, 7	

The convention calls for frequency lists to show four digits after the decimal place, followed by either an “N” or a “W”, depending on whether the frequency is narrow or wide band. Mode refers to either “A” or “D” indicating analog or digital (e.g., Project 25) or “M” indicating mixed mode. All channels are shown as if programmed in a control station, portable or mobile radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A 040111					Frequency Band VHF HIGHBAND			Description FIRESCOPE STATEWIDE CHANNEL PLAN – 2011		
Channel Configuration	Channel Name/Trunked Radio System Talk-group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode	Remarks		
Simplex – Mo only	CDF T3	Fire	151.1750 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T4	Fire	151.1900 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T5	Fire	151.2500 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T6	Fire	151.3250 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T7	Fire	151.3400 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T8	Fire	151.3700 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T9	Fire	151.3850 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T10	Fire	151.4000 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T11	Fire	151.4450 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T12	Fire	151.4600 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T13	Fire	151.4750 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T14	Fire	159.2250 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T15	Fire	159.2700 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T16	Fire	159.2850 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T17	Fire	159.3150 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T18	Fire	159.3450 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T19	Fire	159.3600 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T20	Fire	159.3750 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T21	Fire	159.3900 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T22	Fire	159.4050 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Simplex – Mo only	CDF T23	Fire	159.4500 N	192.8	Simplex	192.8	A	Usage Note 5, 7		
Repeater Pair	NIFC C1	Fire	168.7000 N	None	170.9750 N	Multi	A	Usage Note 3, 5, 6, 14, 15		
Repeater Pair	NIFC C2	Fire	168.1000 N	None	170.4500 N	Multi	A	Usage Note 3, 5, 6, 14, 15		
Repeater Pair	NIFC C3	Fire	168.0750 N	None	170.4250 N	Multi	A	Usage Note 3, 5, 6, 14, 15		
Repeater Pair	NIFC C4	Fire	166.6125 N	None	168.4000 N	Multi	A	Usage Note 3, 5, 6, 14, 15		

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET						Frequency Band			Description	
ICS 217A 040111						VHF HIGHBAND			FIRESCOPE STATEWIDE CHANNEL PLAN – 2011	
Page 3 of 6										
Channel Configuration	Channel Name/Trunked Radio System Talk-group	Eligible Users	RX Freq	N or W	RX Tone/NAC	TX Freq	N or W	Tx Tone/NAC	Mode	Remarks
Repeater Pair	NIFC C5	Fire	167.1000	N	None	169.7500	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C6	Fire	168.4750	N	None	173.8125	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C7	Fire	162.9625	N	None	171.7875	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C8	Fire	169.5375	N	None	164.7125	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C9	Fire	170.0125	N	None	165.2500	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C10	Fire	170.4125	N	None	165.9625	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C11	Fire	170.6875	N	None	166.5750	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Repeater Pair	NIFC C12	Fire	173.0375	N	None	167.3250	N	Multi	A	Usage Note 3, 5, 6, 14, 15
Simplex – Mo only	NIFC T1	Fire	168.0500	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	NIFC T2	Fire	168.2000	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	NIFC T3	Fire	168.6000	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	NIFC T5	Fire	166.7250	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	NIFC T6	Fire	166.7750	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	NIFC T7	Fire	168.2500	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	FSR5 T4	Fire			None	Simplex		None	A	Usage Note 5, 7 see Op Area Coord.
Simplex – Mo only	FSR5 T5	Fire			None	Simplex		None	A	Usage Note 5, 7 see Op Area Coord.
Simplex – Mo only	FSR5 T6	Fire			None	Simplex		None	A	Usage Note 5, 7 see Op Area Coord.
Simplex – Air/Mo	AIRGUARD	Fire	168.6250	N	None	Simplex		110.9	A	Usage Note 12
Simplex – Air/Mo	FS A/G	Fire	170.0000	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Air/Mo	CDF A/G	Fire	151.2200	N	None	Simplex		None	A	Usage Note 5
Simplex – Air/Mo	IA A/G	Fire	166.8750	N	None	Simplex		None	A	Usage Note 5
Simplex – Air/Mo	IA A/G	Fire	169.1125	N	None	Simplex		None	A	Usage Note 5
Simplex – Mo only	168.3500	Federal Agencies	168.3500	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	163.1000	Federal Agencies	163.1000	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	163.7125	Federal Agencies	168.7125	N	None	Simplex		None	A	Usage Note 5, 6
Simplex – Mo only	167.9500	Federal Agencies	167.9500	N	None	Simplex		None	A	Usage Note 5, 6

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A 040111 Page 4 of 6					Frequency Band UHF	Description FIRESCOPE STATEWIDE CHANNEL PLAN – 2011				
Channel Configuration	Channel Name/Trunked Radio System Talk-group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode	Remarks		
Repeater Pair	UCALL40	Any Public Safety	453.2125 N	None	458.2125 N	156.7	A	Usage Note 8, 14		
Repeater Pair	UTAC41	Any Public Safety	453.4625 N	None	458.4625 N	156.7	A	Usage Note 5, 8, 14		
Repeater Pair	UTAC42	Any Public Safety	453.7125 N	None	458.7125 N	156.7	A	Usage Note 5, 8, 14		
Repeater Pair	UTAC43	Any Public Safety	453.8625 N	None	458.8625 N	156.7	A	Usage Note 5, 8, 14		

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A 040111 Page 5 of 6						Frequency Band 800 MHz. (Prior to Re-banding)		Description FIRESCOPE STATEWIDE CHANNEL PLAN – 2011	
Channel Configuration	Channel Name/Trunked Radio System Talk-group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode	Remarks	
Repeater Pair	I-CALL	Any Public Safety	866.0125 W	156.7	821.0125 W	156.7	A	Usage Note 9, 14	
Repeater Pair	I-TAC1	Any Public Safety	866.5125 W	156.7	821.5125 W	156.7	A	Usage Note 9, 14	
Repeater Pair	I-TAC2	Any Public Safety	867.0125 W	156.7	822.0125 W	156.7	A	Usage Note 9, 14	
Repeater Pair	I-TAC3	Any Public Safety	867.5125 W	156.7	822.5125 W	156.7	A	Usage Note 9, 14	
Repeater Pair	I-TAC4	Any Public Safety	868.0125 W	156.7	823.0125 W	156.7	A	Usage Note 9, 14	
Repeater Pair	FIREMARS	Fire and Fire-Based EMS	868.9875 W	156.7	823.9875 W	156.7	A	Usage Note 10, 14	
Repeater Pair	FIREMARS 2	Fire and Fire-Based EMS	866.9125 W	156.7	821.9125 W	156.7	A	Usage Note 10, 11, 14	
Simplex – Base/Mo	FIREMARS D	Fire and Fire-Based EMS	868.9875 W	156.7	Simplex	156.7	A	Usage Note 10, 14	
Simplex – Base/Mo	FIREMARS 2D	Fire and Fire-Based EMS	866.9125 W	156.7	Simplex	156.7	A	Usage Note 10, 11, 14	
NOTE: After being re-banded, the NPSPAC national interoperability channels will be 15 MHz. lower. The California Statewide Interoperability Executive Committee (CALSIIEC) is considering the adoption of a national Interoperability channel naming standard									

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A 040111 Page 6 of 6					Frequency Band 800 MHz. (Post-Rebanding)			Description FIRESCOPE STATEWIDE CHANNEL PLAN – 2011		
Channel Configuration	Channel Name/Trunked Radio System Talk-group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode	Remarks		
Repeater Pair	8CALL90	Any Public Safety	851.0125 W	156.7	806.0125 W	156.7	A	Usage Note 9, 14		
Repeater Pair	8TAC91	Any Public Safety	851.5125 W	156.7	806.5125 W	156.7	A	Usage Note 9, 14		
Repeater Pair	8TAC92	Any Public Safety	852.0125 W	156.7	807.0125 W	156.7	A	Usage Note 9, 14		
Repeater Pair	8TAC93	Any Public Safety	852.5125 W	156.7	807.5125 W	156.7	A	Usage Note 9, 14		
Repeater Pair	8TAC94	Any Public Safety	853.0125 W	156.7	808.0125 W	156.7	A	Usage Note 9, 14		
Repeater Pair	CAFIRE1	Fire and Fire-Based EMS	853.9875 W	156.7	808.9875 W	156.7	A	Usage Note 10, 14		
Repeater Pair	CAFIRE2	Fire and Fire-Based EMS	851.9125 W	156.7	806.9125 W	156.7	A	Usage Note 10, 11, 14		
Simplex – Base/Mo	8CALL90D	Any Public Safety	851.0125 W	156.7	Simplex	156.7	A	Usage Note 9		
Simplex – Base/Mo	8TAC91D	Any Public Safety	851.5125 W	156.7	Simplex	156.7	A	Usage Note 9		
Simplex – Base/Mo	8TAC92D	Any Public Safety	852.0125 W	156.7	Simplex	156.7	A	Usage Note 9		
Simplex – Base/Mo	8TAC93D	Any Public Safety	852.5125 W	156.7	Simplex	156.7	A	Usage Note 9		
Simplex – Base/Mo	8TAC94D	Any Public Safety	853.0125 W	156.7	Simplex	156.7	A	Usage Note 9		
Simplex – Base/Mo	CAFIRE1D	Fire and Fire-Based EMS	853.9875 W	156.7	Simplex	156.7	A	Usage Note 10		
Simplex – Base/Mo	CAFIRE2D	Fire and Fire-Based EMS	851.9125 W	156.7	Simplex	156.7	A	Usage Note 10, 11		