

Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

All highlighted sections of Appendix I (Interoperability Channels) include revisions to wideband channel assignments reflecting Report and Order Docket Number 06-150, adopted July 31st, 2007, released August 10th, 2007, Titled: Service Rules for the 698-746, 747-762, and 777-792 MHz Bands. For these “narrowband” voice interoperability channels, frequencies have been changed to those indicated here.

In addition, this revised Appendix I (Interoperability Channels) has been modified as a result of the FCC releasing the Reserve Pool channels and designating them as General Use Channels. See Order DA-15-476 and PN DA15-483, dated in April-2015.

700 MHz Interoperability Channels, Labels, and Usage

FREQUENCY (SUBSCRIBER LOAD)		BASE, MOBILE, or FIXED (Repeater, or Control)	ELIGIBILITY / PRIMARY USE	COMMON NAME	P25 NAC* HEX / DEC	LIMITATIONS (47 CFR Part 90)	Required For Region 7 Users
RECEIVE	TRANSMIT						
MHz	MHz	FCC 700 MHz Public Safety Band (12.5 kHz Channels)					
769.24375	799.24375	Mobile-Fixed	CALLING CHANNEL-1	7CALL50	\$293	90.531(as)(1)(ii)	YES
	SIMPLEX	Base-Fixed-Mobile		7CALL50D	659		
769.14375	799.14375	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC51	\$293	90.531(as)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile		7TAC51D	659		
769.64375	799.64375	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC52	\$293	90.531(as)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile		7TAC52D	659		
770.14375	800.14375	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC53	\$293	90.531(as)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile		7TAC53D	659		
770.64375	800.64375	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC54	\$293	90.531(as)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile		7TAC54D	659		
769.74375	799.24375	Mobile-Fixed	<i>General Public Safety Service</i>	7TAC55	\$293		YES
	SIMPLEX	Base-Fixed-Mobile		7TAC55D	659		
770.24375	800.24375	Mobile-Fixed	<i>General Public Safety Service</i>	7TAC56	\$293		
	SIMPLEX	Base-Fixed-Mobile		7TAC56D	659		
770.99375	800.99375	Mobile-Fixed	<i>Other Public Service</i>	7GTAC57	\$293		YES
	SIMPLEX	Base-Fixed-Mobile		7GTAC57D	659		
770.89375	800.89375	Mobile-Fixed	<i>Mobile Repeater (MO3 Primary)</i>	7MOB59	\$293		YES
	SIMPLEX	Base-Fixed-Mobile		7MOB59D	659		
770.39375	800.39375	Mobile-Fixed	<i>Law Enforcement</i>	7LAW68	\$293		
	SIMPLEX	Base-Fixed-Mobile		7LAW68D	659		

Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

770.49375	800.49375	Mobile-Fixed	<i>Law Enforcement</i>	7LAW69	\$293			
	SIMPLEX	Base-Fixed-Mobile		7LAW69D	659			
769.89375	799.89375	Mobile-Fixed	<i>Fire</i>	7FIRE63	\$293			
	SIMPLEX	Base-Fixed-Mobile		7FIRE63D	659			
769.99375	799.99375	Mobile-Fixed	<i>Fire</i>	7FIRE64	\$293			
	SIMPLEX	Base-Fixed-Mobile		7FIRE64D	659			
769.39375	799.39375	Mobile-Fixed	<i>EMS</i>	7MED65	\$293			
	SIMPLEX	Base-Fixed-Mobile		7MED65D	659			
769.49375	799.49375	Mobile-Fixed	<i>EMS</i>	7MED66	\$293			
	SIMPLEX	Base-Fixed-Mobile		7MED66D	659			
770.74375	800.74375	Mobile-Fixed	<i>Mobile Data</i>	7DATA64	\$293	90.531(as)(1)(i)		
	SIMPLEX	Base-Fixed-Mobile		7DATA64D	659			
773.25625	803.25625	Mobile-Fixed	CALLING CHANNEL-2	7CALL70	\$293	90.531(as)(1)(ii)		YES
	SIMPLEX	Base-Fixed-Mobile		7CALL70D	659			
773.10625	803.10625	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC71	\$293	90.531(as)(1)(iii)		
	SIMPLEX	Base-Fixed-Mobile		7TAC71D	659			
773.60625	803.60625	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC72	\$293	90.531(as)(1)(iii)		
	SIMPLEX	Base-Fixed-Mobile		7TAC72D	659			
774.10625	804.10625	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC73	\$293	90.531(as)(1)(iii)		
	SIMPLEX	Base-Fixed-Mobile		7TAC73D	659			
774.60625	804.60625	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC74	\$293	90.531(as)(1)(iii)		
	SIMPLEX	Base-Fixed-Mobile		7TAC74D	659			
773.75625	803.75625	Mobile-Fixed	<i>General Public Safety Service</i>	7TAC75	\$293			YES
	SIMPLEX	Base-Fixed-Mobile		7TAC75D	659			
774.25625	804.25625	Mobile-Fixed	<i>General Public Safety Service</i>	7TAC76	\$293			
	SIMPLEX	Base-Fixed-Mobile		7TAC76D	659			
774.85625	804.85625	Mobile-Fixed	<i>Other Public Service</i>	7GTAC77	\$293			YES
	SIMPLEX	Base-Fixed-Mobile		7GTAC77D	659			
774.50625	804.50625	Mobile-Fixed	<i>Mobile Repeater (MO3 Primary)</i>	7MOB79	\$293			YES
	SIMPLEX	Base-Fixed-Mobile		7MOB79D	659			
774.00625	804.00625	Mobile-Fixed	<i>Law Enforcement</i>	7LAW81	\$293			
	SIMPLEX	Base-Fixed-Mobile		7LAW81D	659			
774.35625	804.35625	Mobile-Fixed	<i>Law Enforcement</i>	7LAW82	\$293			
	SIMPLEX	Base-Fixed-Mobile		7LAW82D	659			

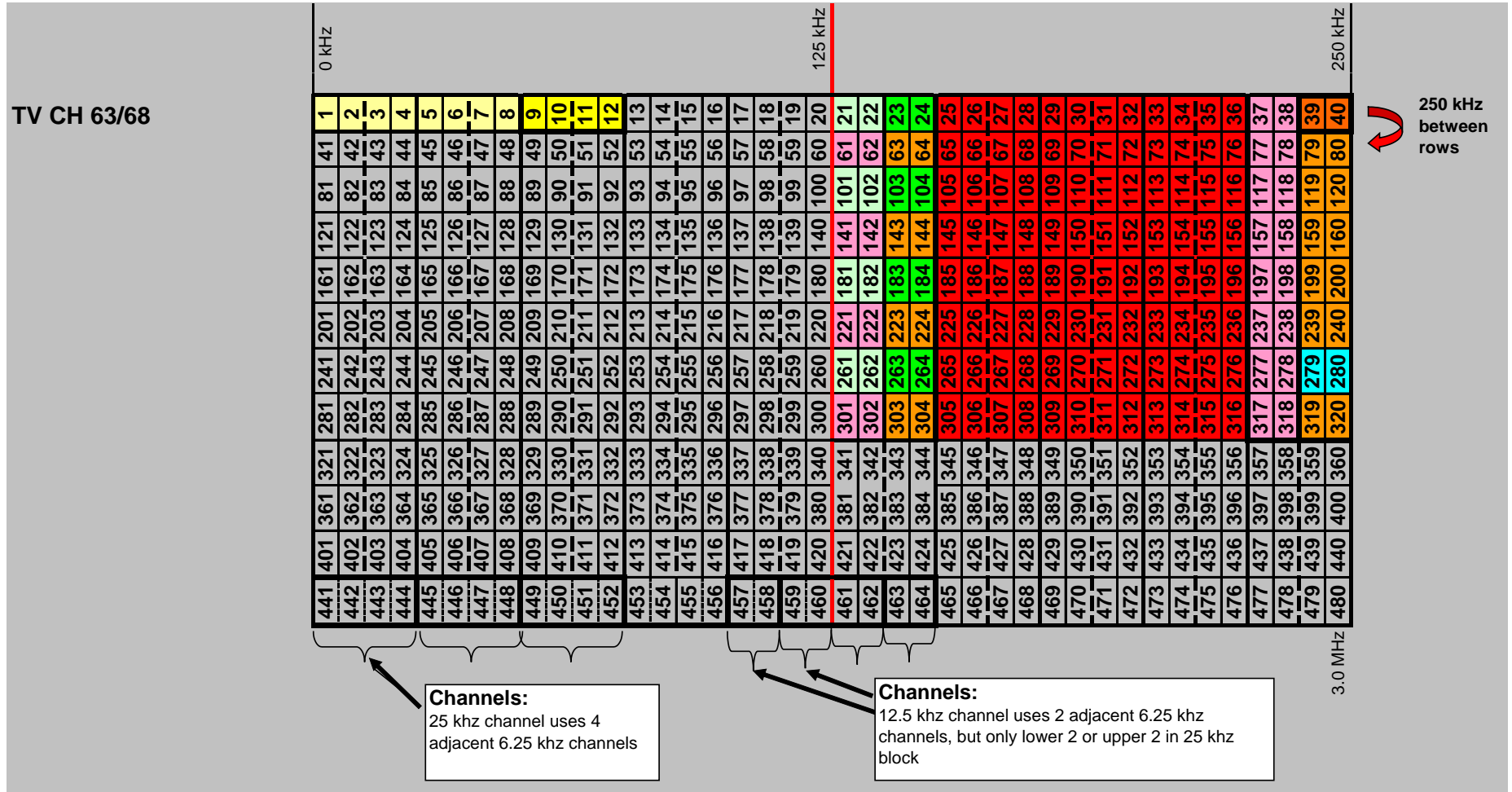
Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

773.50625	803.50625	Mobile-Fixed	<i>Fire</i>	7FIRE83	\$293		
	SIMPLEX	Base-Fixed-Mobile		7FIRE83D	659		
773.85625	803.85625	Mobile-Fixed	<i>Fire</i>	7FIRE84	\$293		
	SIMPLEX	Base-Fixed-Mobile		7FIRE84D	659		
773.00625	803.00625	Mobile-Fixed	<i>EMS</i>	7MED86	\$293		
	SIMPLEX	Base-Fixed-Mobile		7MED86D	659		
773.35625	803.35625	Mobile-Fixed	<i>EMS</i>	7MED87	\$293		
	SIMPLEX	Base-Fixed-Mobile		7MED87D	659		
774.75625	804.75625	Mobile-Fixed	<i>Mobile Data</i>	7DATA89	\$293	90.531(as)(1)(i)	
	SIMPLEX	Base-Fixed-Mobile		7DATA89D	659		

*Note: The Network Access Code (NAC) of \$293 (HEX) or 659 (DEC) is selected at the recommendation of the National Public Safety Telecommunication Council (NPSTC) and the National Regional Planning Council (NRPC).

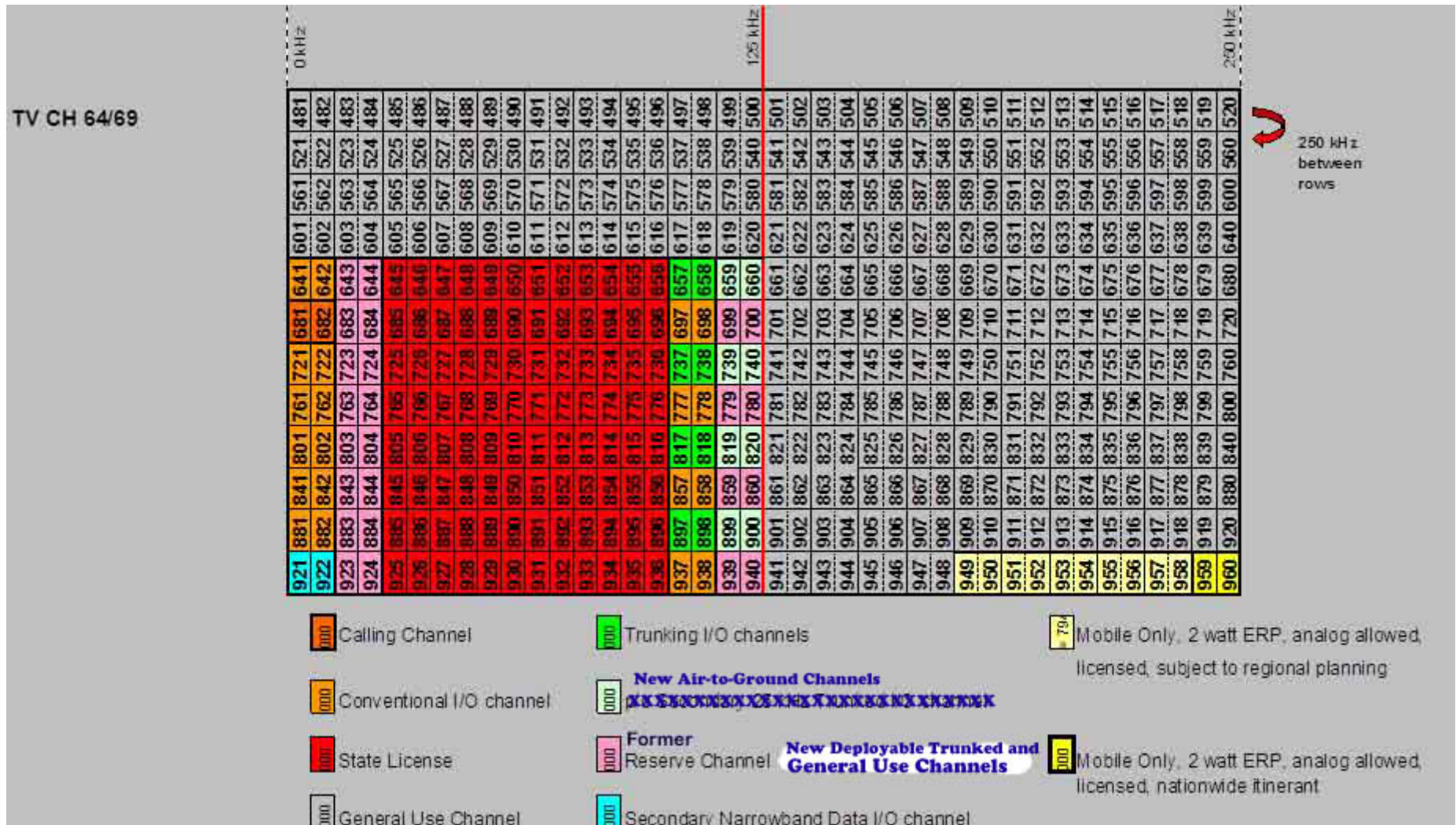
Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

700 MHz Narrowband Channel Layout Plan – TV Channel 63-68 (769-772/799-802 MHz)



Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

700 MHz Narrowband Channel Layout Plan – (772-775/802-805 MHz)



Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

Pursuant to Public Notice DA-15-483 and Order DA-15-476, Reserve Channels changed to General Use Channels; if not used as Deployable Trunked Channels or used with the priority for replacing T-Band frequencies.

Region 7 (Colorado) has no T-Band frequencies assigned or licensed. The current “deployable trunked system” is operated by the State of Colorado and is licensed one Secondary Trunked Channels as authorized by the FCC, with a waiver. That will be changed to “Deployable Trunked Channels” in 2016. See Appendix L for frequency/channel information.

Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

S

Interoperability Channel Technical Parameters

ANSI/TIA/EIA-102 (Project 25) Common Air Interface

Certain common Project 25 parameters need to be defined to ensure digital radios operating on the 700 MHz Interoperability Channels can communicate. This is analogous to defining the common CTCSS tone used on NPSPAC analog Interoperability Channels.

Network Access Code

In the Project 25v Common Air Interface definition, the Network Access Code is analogous to the use of CTCSS and CDCSS signals in analog radio systems. It is a code transmitted in the preamble of the Project 25 signal and repeated periodically throughout the transmission. Its purpose is to provide selective access to and maintain access to a receiver. It is also used to block nuisance and other co-channel signals. There are up to 4096 of these NAC codes. For ease of migration in other frequency bands, a NAC code table was developed which shows the mapping of CTCSS and CDCDD signals to corresponding NAC codes. Document TIA/EIA TSB102.BAAC contains NAC code table and other Project 25 Common Air Interface Reserve values. Since NPSPAC Interoperability Channels use CTCSS tone 156.7 Hz (5A), use of corresponding NAC code \$293/659 is recommended for the 700MHz Interoperability Channel NAC code.

Talkgroup ID

In the Project 25 Common Air Interface definition, the Talkgroup ID on conventional channels is analogous to the use of talkgroups in trunking. In order to ensure that all users can communicate, all units will use the default Talkgroup ID of \$0001.

Manufacturer's ID

The Project 25 Common Air Interface allows the ability to define manufacturer specific functions. In order to ensure that all users can communicate, all units should not use a specific Manufacturer's ID, but will use the default Manufacturer's ID of \$00

Message ID

The project 25 Common Air Interface allows the ability to define specific message functions. In order to ensure that all users can communicate, all units will use the default Message ID for unencrypted messages of \$00000000000000000000.

Appendix I (Interoperability Channels) Region 7 - 700 MHz Regional Plan

Encryption Algorithm ID and Key ID

The Project 25 Common Air Interface allows the ability to define specific encryption algorithms and encryption keys. In order to ensure that all users can communicate, encryption is prohibited on the Interoperability Calling Channels; all units will use the default Algorithm ID for unencrypted messages of \$80 and the default Key ID for unencrypted messages of \$0000. These same defaults will be used for the other Interoperability channels when encryption is not used.

The FCC permits the use of encryption on all Interoperability channels except the two Calling Channels. In order to ensure all units can communicate, agencies desiring to communicate with encryption must coordinate with the Region 7 Planning Committee to define and disseminate appropriate Message ID, Encryption Algorithm ID, and Encryption Key ID to be used in the encrypted mode on Interoperability channels.

Emission Designators

Based on a survey of the licensees in several states, we found that the emission designators used by various small and large agencies on their licenses for interoperable channels are as follows:

8K10F1E, and/or 8K10F1D.