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**8191 Southpark Lane, Unit 205  
Littleton, CO 80120-4641  
PH: 303-649-1843  
FAX: 303-649-1844  
Toll free: 1-866-807-4755  
www.NPSTC.org  
NPSTC@highlands-group.com**

## **National Public Safety Telecommunications Council Interoperability Committee - Regional Planning Committee Channel Naming Task Group**

### **Report of Committee**

February 19, 2007

### **Background**

In 1998, the Federal Communications Commission (FCC) declared “...we believe that it is necessary for the Commission to dedicate sufficient spectrum to nationwide interoperability, and charter a federal advisory committee (The National Coordinating Committee [NCC]) that will develop operational and technical recommendations.”<sup>1</sup> The NCC was organized in 1999, and was dissolved at the conclusion of its work in July, 2003. It was designated by the FCC as an “Open Membership” advisory committee, with participants representing all aspects (administrative, operational, and technical) of all public safety disciplines (Law Enforcement, Fire, Forestry Conservation, Emergency Medical, Highway Transportation, etc.) at all levels of government and industry, from all areas of the country.

Among the many recommendations developed by the NCC, the Interoperability Subcommittee and its Working Groups generated a series of recommendations for public safety communications interoperability, including the standardized naming of all of the interoperability channels used by first responders. These recommendations built off of the FCC’s National Public Safety Planning Advisory Committee’s work in the 800 MHz band, in the late 1980s. The final (July 2003) version of the *Standard Channel Nomenclature for the Public Safety Interoperability Channels* included all of the public safety radio bands (not only 700 MHz), together in one succinct proposal including a proposed single set of rules for the Interoperability Channels, instead of having the various generic and service-specific interoperability channels distributed between different sub-parts of the Commission’s rules, with different licensing and operating constraints.<sup>2</sup>

NPSTC is a federation of national organizations representing various aspects of public safety telecommunications. NPSTC was originally formed in 1997 to encourage and facilitate implementation of the findings and recommendations of the Public Safety Wireless Advisory Committee (PSWAC) established in 1994 by the FCC and the National Telecommunications and Information Administration to evaluate the wireless communications needs of local, tribal, State, and Federal public safety agencies through the year 2010, identify problems, and recommend possible solutions. NPSTC has since taken on additional responsibilities

<sup>1</sup> See The Development of Operational, Technical and Spectrum Requirements for Meeting Federal, State and Local Public Safety Agency Communications Requirements Through the Year 2010, WT Docket No. 96-86, *First Report and Order and Third Notice of Proposed Rulemaking*, 14 FCC Rcd 152 (1998) at 7.

<sup>2</sup> See [http://www.fcc.gov/pshs/spectrum/ncc/ncc\\_releases/NCCBandPlan.pdf](http://www.fcc.gov/pshs/spectrum/ncc/ncc_releases/NCCBandPlan.pdf)

including the facilitation and implementation of the recommendations of the NCC, following that body's dissolution.

## The Issue

The FCC has elected not to adopt the *Standard Channel Nomenclature*, even though the Commission has in the past adopted a similar standard for public safety channel naming<sup>3</sup>. As a result, as NPSTC has worked to implement the recommendations of the NCC, it found interoperability planning entities around the country have a wide variance in their awareness of the *Standard Channel Nomenclature*, with a resulting lack of uniformity in channel naming across the country. At the November 2006 quarterly NPSTC meetings, the Council received a request that the *Standard Channel Nomenclature* be modified. In the interest of facilitating a standard acceptable to public safety communications entities, the NPSTC Governing Board established the Channel Naming Task Group consisting of members of the NPSTC Interoperability and Regional Planning Committees, and scheduled time for a public forum to address the issue at its next quarterly meetings in February 2007. The Task Group established the process for conducting the evaluation and standard modification.

## The Process

On November 30, 2006, NPSTC issued a Public Notice announcing the *Public Forum on Standard Channel Naming Nomenclature for Public Safety Voice Interoperability Channels* to be held February 5, 2007 in Orlando, FL, and inviting recommendations for modification from interested parties. Background information and the procedure for submission of recommendations were posted on the NPSTC web site. A cutoff date for submissions of January 15, 2007 was established. Six proponent organizations submitted recommendations for modification of the *Standard Channel Nomenclature*.

On February 5, 2007 the Forum was held in conjunction with NPSTC's quarterly meetings.<sup>4</sup> The Forum opened with an overview of the background of the NCC efforts; the processes by which the *Standard Channel Nomenclature* document was developed; events since the development of the *Standard Channel Nomenclature* where the lack of naming uniformity has stood out as a major operational impediment to achieving interoperability; and the ongoing need for an adopted standard that facilitates interoperability operations and is understandable by the first responder.

Each of the six proponents was then given 10 minutes to describe their recommendation and offer supporting arguments. Following a short question and answer period, a consensus format was agreed to. An initial draft standard was developed overnight and presented to the NPSTC Interoperability Committee meeting on February 6, 2007. After discussion and minor editorial adjustments, the draft standard was accepted and forwarded to the NPSTC Governing Board, where it was accepted along with the recommendation that it be presented as a Report of Committee and posted for a 90 day comment period; that any substantive comments be addressed, including a second public forum (if required), and that the final modified *NCC/NPSTC Standard Channel Nomenclature for the Public Safety Interoperability Channels* document be presented for adoption by the NPSTC Governing Board at its next meeting June 13, 2007 in Denver, CO.

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<sup>3</sup> See 47CFR90.20(d)(65) and 47CFR90.20(d)(66)(i)

<sup>4</sup> Minutes of the Forum proceedings are available at <http://www.npstc.org/channelNaming.jsp>

## Recommendations of the Task Group

### 1. Common Naming Standard

Tables 1 and 2 show the FCC designated Interoperability Channels and the related Channel Name.

**Each FCC designated Interoperability Channel in the Public Safety Radio Services (47CFR Part 90) will have a unique common name, following a standardized format. This format consists of a maximum of 8 characters, as follows:**

**Btype##M**

**B**            **Spectrum Band**

The Spectrum Band designator is a unique single alpha or numeric character to designate the Public Safety spectrum segment the channel is found within:

- L**    VHF Low band (30 – 50 MHz)
- V**    VHF High Band (150.8 – 162.0 MHz)
- U**    UHF Band (450 – 470 MHz)
- 7**    700 MHz Public Safety Band. As the spectrum for voice communications use in this band is further divided into two individual blocks, for interoperability channel numbering purposes these blocks are identified as follows:
  - “A” Block: Television Channels 63 and 68
  - “B” Block: Television Channels 64 and 69
- 8**    800 MHz NPSPAC band after the rebanding process (806 – 809 / 851 – 854 MHz)

**type**            **Channel Use designator**

The Channel Use designator is an alphanumeric 3 or 4 place tag to signify the primary purpose of operations on the channel. In some cases, the Channel Use has been specified in FCC rules or related Orders.

- CALL**    Channel is dedicated nationwide for the express purpose of Interoperability calling only.
- DATA**    Channel is reserved nationwide for the express purpose of data transmission only.
- FIRE**    Primarily used for interagency incident communications by Fire licensees
- GTAC**    Primarily used for interagency incident communications between Public Safety eligible entities and eligible non-governmental entities
- LAW**    Primarily used for interagency incident communications by Police licensees
- MED**    Primarily used for interagency incident communications by Emergency Medical Service licensees
- MOB**    Primarily used for on-scene interagency incident communications by any Public Safety eligible, using vehicular repeaters (FCC Station Class MO3)
- TAC**    Primarily used for interagency communications by any Public Safety eligible

## ##      Unique Channel Identifier

The Unique Channel Identifier is a numeric 1 or 2 place tag to uniquely identify the specific channel. Channel Identifiers are grouped by band segment as follows:

1-9	VHF Low band (30-50 MHz) [No leading Zero used]
10-39	VHF High band (150.8 – 162 MHz)
40-49	UHF band (450 – 470 MHz)
50-69	700 MHz “A” block (TV 63/68)
70-89	700 MHz “B” block (TV 64/69)
90-99	800 MHz “NPSPAC” band (806-809/851-854 MHz) [Post-rebanding]

Notes:

- Starting in VHF High band, Channel Identifiers are grouped by Channel Use type, with Channel Identifiers ending in “0” reserved for Interoperability Calling use.
- Channels Identifiers specified for Emergency Medical Services (“MED”) in this document are numbered to avoid conflict with the FCC’s UHF medical channel naming methodology specified in 47CFR90.20(d)(65) and 47CFR90.20(d)(66)(i).
- Channel Identifiers not specified in Table 1 are reserved for future use.

## M      Modifier

The Modifier character is a single alphanumeric tag to identify a modification to the default operation type on the channel / channel pair:

D	Direct or “Talk around” use [Simplex operations on the output channel of a pair normally designated for half-duplex or mobile relay operations.
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## **2. Reserving of Interoperability Channel sets in the 700 MHz band for Specific Uses and Services**

Channel naming and the reserving of specific tactical channels in the 700 MHz band for first responder operations by EMS, Fire and Law Enforcement agencies were subjects of Petitions for Reconsideration to the 4<sup>th</sup> Report & Order in FCC Docket 96-86. While these Petitions were denied by the FCC for codification into its Rules, the FCC nonetheless recognized the importance of such standardization if it was implemented at the State and/or Region Level.

In light of the national events since the FCC’s denial, with numerous reports recommending national standardization of channel names to facilitate interoperability, and with the note that none of the six proponents recommended a change to the existing NCC designations of the usage of these channels, **it is the recommendation of the Task Group that the final modified *NCC/NPSTC Standard Channel Nomenclature for the Public Safety Interoperability Channels* continue to designate channel sets in**

**the 700 MHz blocks for specific uses and first responder services such as EMS, Fire, and Law Enforcement.**

### **3. Use of Common “Tone Protection” (CTCSS or NAC) Codes:**

The use of a common Continuous Tone Controlled Squelch System (CTCSS) tone of 156.7 Hz for transmit and receive on national Interoperability Channels was originally specified in the NPSPAC proceedings (Docket 87-112). In many areas, the 800 MHz Planning Regions allowed the use of an additional (secondary) access tone for in-cabinet repeat operations, as long as the 156.7 Hz tone was monitored by a live dispatcher.

In the development process of the *Standard Channel Nomenclature for the Public Safety Interoperability Channels*, the NCC Interoperability Committee’s Working Group recommended that 156.7 Hz CTCSS transmit and receive be used for all analog voice operations on all interoperability channels in all bands. For P-25 voice operations, the NCC Working Group initially recommended the 156.7 Hz equivalent Network Access Code (NAC) of \$61F. This recommendation was changed in 2001 to use the default (“carrier squelch equivalent”) NAC of \$293.

During the February 2007 Forum, the use of a common CTCSS tone on channels below 700 MHz was discussed. The agreement was that all analog transmitters on national interoperability channels should transmit 156.7 Hz; however, due to the lack of standardization *at this time*, receivers should be configured for carrier squelch operation unless tone protection is required to mitigate adjacent channel or intermodulation interference. Digital (P-25) operations on any Interoperability Channel should use the common NAC of \$293. It was also noted that the NCC-developed guidebook for Regional Planning Committees still contains the reference to NAC \$61F; the consensus agreed that the Task Group should recommend updating the guidebook.

**It is the recommendation of the Task Group that the final modified *NCC/NPSTC Standard Channel Nomenclature for the Public Safety Interoperability Channels* continue to designate:**

- 1. The use of CTCSS Tone 157.7 Hz for all analog operations on Interoperability Channels**
  - a. All (fixed and subscriber) analog transmitters will encode 156.7 Hz.**
  - b. Subscriber receivers should be set for carrier squelch operations unless conditions in the area require the use of tone protection to mitigate adjacent channel interference, or interference from intermodulation products. In those cases, receivers will decode 156.7 Hz.**
  - c. Subject to the approval of applicable Statewide Communications Interoperability Plans and/or FCC-approved Regional Plans, Mobile Relay stations that are part of a Local, Regional, or Statewide interoperability network may be equipped with a second receive CTCSS tone to provide local (“in cabinet”) relay operation, provided:**
    - i. The relay transmitter continues to transmit the Common CTCSS Tone of 156.7 Hz so that all users within range of the station are aware the station is in use;**
    - ii. The relay will accept the Common CTCSS Tone of 156.7 Hz and present the audio accompanying the 156.7 Hz-encoded transmission to either the Network or a live operator at the appropriate controlling dispatch facility; and**
    - iii. The operational configuration of the Mobile Relay Station is published in applicable interoperability resource tracking documents (such as the**



appropriate Tactical Interoperability Communications Plan, Statewide Communications Interoperability Plan, and/or FCC-approved Regional Plan) and databases (CAPRAD and/or CASM).

2. The use of Network Access Code (NAC) \$293 for all digital operations on Interoperability Channels
  - a. Subject to the approval of applicable Statewide Communications Interoperability Plans and/or FCC-approved Regional Plans, Mobile Relay stations that are part of a Local, Regional, or Statewide interoperability network may be equipped with a second receive NAC to provide local (“in cabinet”) relay operation, provided:
    - i. The relay transmitter continues to transmit the Common NAC of \$293 so that all users within range of the station are aware the station is in use;
    - ii. The relay will accept the Common NAC of \$293 and present the audio accompanying the \$293-encoded transmission to either the Network or a live operator at the appropriate controlling dispatch facility; and
    - iii. The operational configuration of the Mobile Relay Station is published in applicable interoperability resource tracking documents (such as the appropriate Tactical Interoperability Communications Plan, Statewide Communications Interoperability Plan, and/or FCC-approved Regional Plan) and databases (CAPRAD and/or CASM).

Further, it is the recommendation of the Task Group that all references in the NCC-developed *Guidebook for Regional Planning Committees* to the use of NAC \$61F on Interoperability Channels be updated to reflect the change to NAC \$293 as soon as possible.

#### 4. Implementation Timelines:

It is the recommendation of the Task Group that the implementation of channel names and technical parameters outlined in the final modified *NCC/NPSTC Standard Channel Nomenclature for the Public Safety Interoperability Channels* in a coordinated fashion within a State or Planning Region, as appropriate:

- For operations in the 800 MHz Band, in conjunction with the implementation of Rebanding. In areas that are not in compliance with the *Standard* at this time, implementing the change will assist the end user (and any Incident Communications Leader) in knowing that the radio has been rebanded.
- For operations in the 700 MHz band, as new systems are implemented (for those systems already operating in the 700 MHz band, implementation should take place at the earliest opportunity).
- For operations below 512 MHz, in conjunction with the implementation of narrow band [11K3F3E or similar] operations to meet the requirements of Docket 92-235. Existing ‘wide band’ [16K0F3E or wider emissions] operations on legacy channels in the VHF High Band should retain their existing identifier to denote the wide band operating mode until all wide band operations have ceased in the applicable State.

#### 5. Recommendations to the NPSTC Governing Board:

It is the recommendation of the Task Group that the NPSTC Governing Board:

- **Recommend to the Federal Communications Commission that the FCC reconsider their denial of the codification of the NCC’s *Standard Channel Nomenclature for the Public Safety Interoperability Channels* in their rules, in light of the reports of the 9/11 Commission and the Hurricane Katrina Independent Panel, and adopt the NCC/NPSTC modified *Standard Channel Nomenclature for the Public Safety Interoperability Channels* as a tool to further enhance Public Safety Interoperability in all communications bands**
- **Recommend to the Department of Homeland Security and other Federal agencies providing Interoperability-related grants, that the cost of reprogramming communications infrastructure and subscriber equipment to implement the *Standard Channel Nomenclature for the Public Safety Interoperability Channels* be allowed to facilitate interoperability**

## **Channel Naming Spreadsheet (Tables 1 and 2)**

The consensus Channel Names for the FCC-designated Public Safety Interoperability Channels is presented in two formats. **Table 1** presents the methodology in **Band - Consensus Name** order. **Table 2** presents the methodology in **Band - Frequency** order.

Notes:

- There are 108 discrete lines of data in the tables. To facilitate the review of comments regarding specific entries in the tables, Table 1 includes a leading column with a Line ID designation for each line. Commenters are requested to include the Line ID(s) in their comments to assist staff in identifying the entry you are commenting about
- The “*BASE, MOBILE, OR FIXED (REPEATER or CONTROL)*” column denotes the permitted type of operation for the particular frequency combination. These designations equate to FCC Station class “FB” for BASE (simplex or half-duplex), “MO” for MOBILE, “FB2” for FIXED (when used in the “Base-Fixed-Mobile” context) or “FX1” for FIXED (when used in the “Mobile-Fixed” context).
- As noted in the tables, the NTIA Interoperability Channels were removed from the tables while NPSTC and our Federal partner agencies address discrepancies that exist between the FCC’s and the NTIA’s published information for the use of these channels by FCC licensees.

Table 1  
Interoperability Channels in Channel Name Order

LINE ID	FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
	RECEIVE	TRANSMIT						
	<b>MHz</b>	<b>MHz</b>	<b>FCC 30 MHz Public Safety Band</b>					
1	39.4600	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	3LAW1	LLAW1	90.20(c)(3) [15]	
2	<del>39.4800</del>	<del>SIMPLEX</del>	<del>Base-Fixed-Mobile</del>	<del>Fire Proposed</del>	<del>3FIR2</del>	<del>LFIRE2</del>	<del>Prop. 90.20(c)(3) [19]</del>	<del>Proposed use</del>
3	45.8600	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	3LAW3	LLAW3	90.20(c)(3) [15]	
4	45.8800	SIMPLEX	Base-Fixed-Mobile	Fire	3FIR4	LFIRE4	90.20(c)(3) [19]	
	<b>MHz</b>	<b>MHz</b>	<b>FCC 150 - 162 MHz Public Safety Band</b>					
5	155.7525	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1CAL18	VCALL10	90.20(c)(3) [80,83]	
6	151.1375	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC5	VTAC11	90.20(c)(3) [80]	
7	154.4525	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC13	VTAC12	90.20(c)(3) [80]	
8	158.7375	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC22	VTAC13	90.20(c)(3) [80]	
9	159.4725	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC23	VTAC14	90.20(c)(3) [80]	
10	161.8500	157.2500	Mobile-Fixed	Allocated for Public Safety Use in 33 Inland VPCAs / EAs	1TAC19D	VTAC17	90.20(g)	
11		SIMPLEX	Base-Fixed-Mobile		1TAC24	VTAC17D		
12	161.8250	157.2250	Mobile-Fixed	Allocated for Public Safety Use in 33 Inland VPCAs / EAs	1TAC20D	VTAC18	90.20(g)	
13		SIMPLEX	Base-Fixed-Mobile		1TAC25	VTAC18D		
14	161.8750	157.2750	Mobile-Fixed	Allocated for Public Safety Use in 33 Inland VPCAs / EAs	1TAC21D	VTAC19	90.20(g)	
15		SIMPLEX	Base-Fixed-Mobile		1TAC26	VTAC19D		
16	154.2800	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR9	VFIRE21	90.20(c)(3) [19]	
17	154.2650	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR7	VFIRE22	90.20(c)(3) [19]	
18	154.2950	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR11	VFIRE23	90.20(c)(3) [19]	
19	154.2725	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR8	VFIRE24	90.20(c)(3) [19]	
20	154.2875	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR10	VFIRE25	90.20(c)(3) [19]	
21	154.3025	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR12	VFIRE26	90.20(c)(3) [19]	
22	155.3400	SIMPLEX	Base-Fixed-Mobile	EMS	1EMS14	VMED28	90.20(c)(3) [40]	
23	155.3475	SIMPLEX	Base-Fixed-Mobile	EMS	1EMS15	VMED29	90.20(c)(3) [40]	
24	155.4750	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	1LAW16	VLAW31	90.20(c)(3) [41]	
25	155.4825	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	1LAW17	VLAW32	90.20(c)(3) [41]	
26	<del>152.0075</del>	<del>SIMPLEX</del>	<del>Base-Fixed-Mobile</del>	<del>Special Emergency</del>	<del>1EMS6</del>		<del>90.20(c)(3) [13,30]</del>	<del>Deleted</del>
	<b>MHz</b>	<b>MHz</b>	<b>NTIA VHF Law Enforcement Channels</b>					
	<p><b>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</b></p> <p><b>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</b></p>							



Table 1  
Interoperability Channels in Channel Name Order

LINE ID	FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
	RECEIVE	TRANSMIT						
	MHz	MHz	NTIA VHF Incident Response Channels					
	<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							
	MHz	MHz	NTIA UHF Law Enforcement Channels					
	<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							
	MHz	MHz	NTIA UHF Incident Response Channels					
	<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							
	MHz	MHz	FCC 450 - 470 MHz Public Safety Band					
27	453.2125	458.2125	Mobile-Fixed	Any Public Safety Eligible	4CAL27D	UCALL40	90.20(c)(3) [80,83]	
28		SIMPLEX	Base-Fixed-Mobile		4CAL27	UCALL40D		
29	453.4625	458.4625	Mobile-Fixed	Any Public Safety Eligible	4TAC28D	UTAC41	90.20(c)(3) [80]	
30		SIMPLEX	Base-Fixed-Mobile		4TAC28	UTAC41D		
31	453.7125	458.7125	Mobile-Fixed	Any Public Safety Eligible	4TAC29D	UTAC42	90.20(c)(3) [80]	
32		SIMPLEX	Base-Fixed-Mobile		4TAC29	UTAC42D		
33	453.8625	458.8625	Mobile-Fixed	Any Public Safety Eligible	4TAC30D	UTAC43	90.20(c)(3) [80]	
34		SIMPLEX	Base-Fixed-Mobile		4TAC30	UTAC43D		

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Interoperability Channels in Channel Name Order

LINE ID	FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
	RECEIVE	TRANSMIT						
	CHANNEL	CHANNEL	FCC 700 MHz Public Safety Band (TV 63 + 68)					
35	39-40	999-1000	Mobile-Fixed	Calling Channel	7CAL59	7CALL50	90.531(a)(1)(ii)	
36		SIMPLEX	Base-Fixed-Mobile			7CALL50D		
37	23-24	983-984	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC58	7TAC51	90.531(a)(1)(iii)	
38		SIMPLEX	Base-Fixed-Mobile			7TAC51D		
39	103-104	1063-1064	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC62	7TAC52	90.531(a)(1)(iii)	
40		SIMPLEX	Base-Fixed-Mobile			7TAC52D		
41	183-184	1143-1144	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC66	7TAC53	90.531(a)(1)(iii)	
42		SIMPLEX	Base-Fixed-Mobile			7TAC53D		
43	263-264	1223-1224	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC70	7TAC54	90.531(a)(1)(iii)	
44		SIMPLEX	Base-Fixed-Mobile			7TAC54D		
45	119-120	1079-1080	Mobile-Fixed	General Public Safety Service	7TAC63	7TAC55		
46		SIMPLEX	Base-Fixed-Mobile			7TAC55D		
47	199-200	1159-1160	Mobile-Fixed	General Public Safety Service	7TAC67	7TAC56		
48		SIMPLEX	Base-Fixed-Mobile			7TAC56D		
49	319-320	1279-1280	Mobile-Fixed	Other Public Service	7TAC73	7GTAC57		
50		SIMPLEX	Base-Fixed-Mobile			7GTAC57D		
51	303-304	1263-1264	Mobile-Fixed	Mobile Repeater	7MOB72	7MOB59		MO3 operations Primary
52		SIMPLEX	Base-Fixed-Mobile			7MOB59D		
53	223-224	1183-1184	Mobile-Fixed	Law Enforcement	7LAW68	7LAW61		
54		SIMPLEX	Base-Fixed-Mobile			7LAW61D		
55	239-240	1199-1200	Mobile-Fixed	Law Enforcement	7LAW69	7LAW62		
56		SIMPLEX	Base-Fixed-Mobile			7LAW62D		
57	143-144	1103-1104	Mobile-Fixed	Fire	7FIR64	7FIRE63		
58		SIMPLEX	Base-Fixed-Mobile			7FIRE63D		
59	159-160	1119-1120	Mobile-Fixed	Fire	7FIR65	7FIRE64		
60		SIMPLEX	Base-Fixed-Mobile			7FIRE64D		
61	63-64	1023-1024	Mobile-Fixed	EMS	7MED60	7MED65		
62		SIMPLEX	Base-Fixed-Mobile			7MED65D		
63	79-80	1039-1040	Mobile-Fixed	EMS	7EMS61	7MED66		
64		SIMPLEX	Base-Fixed-Mobile			7MED66D		
65	279-280	1239-1240	Mobile-Fixed	Mobile Data	7DAT71	7DATA69	90.531(a)(1)(i)	
66		SIMPLEX	Base-Fixed-Mobile			7DATA69D		

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LINE ID	FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED OR CONTROL)	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
	RECEIVE	TRANSMIT						
	CHANNEL	CHANNEL	FCC 700 MHz Public Safety Band (TV 64 + 69)					
67	681-682	1641-1642	Mobile-Fixed	Calling Channel	7CAL75	7CALL70	90.531(a)(1)(ii)	
68		SIMPLEX	Base-Fixed-Mobile					7CALL70D
69	657-658	1617-1618	Mobile-Fixed	General Public Safety Service (secondary trunked)	7TAC74	7TAC71	90.531(a)(1)(iii)	
70		SIMPLEX	Base-Fixed-Mobile					7TAC71D
71	737-738	1697-1698	Mobile-Fixed	General Public Safety Service (secondary trunked)	7TAC78	7TAC72	90.531(a)(1)(iii)	
72		SIMPLEX	Base-Fixed-Mobile					7TAC72D
73	817-818	1777-1778	Mobile-Fixed	General Public Safety Service (secondary trunked)	7TAC82	7TAC73	90.531(a)(1)(iii)	
74		SIMPLEX	Base-Fixed-Mobile					7TAC73D
75	897-898	1857-1858	Mobile-Fixed	General Public Safety Service (secondary trunked)	7TAC86	7TAC74	90.531(a)(1)(iii)	
76		SIMPLEX	Base-Fixed-Mobile					7TAC74D
77	761-762	1721-1722	Mobile-Fixed	General Public Safety Service	7TAC79	7TAC75		
78		SIMPLEX	Base-Fixed-Mobile				7TAC75D	
79	841-842	1801-1802	Mobile-Fixed	General Public Safety Service	7TAC83	7TAC76		
80		SIMPLEX	Base-Fixed-Mobile				7TAC76D	
81	937-938	1897-1898	Mobile-Fixed	Other Public Service	7TAC89	7GTAC77		
82		SIMPLEX	Base-Fixed-Mobile				7GTAC77D	
83	881-882	1841-1842	Mobile-Fixed	Mobile Repeater	7MOB88	7MOB79		MO3 operations Primary
84		SIMPLEX	Base-Fixed-Mobile				7MOB79D	
85	801-802	1761-1762	Mobile-Fixed	Law Enforcement	7LAW84	7LAW81		
86		SIMPLEX	Base-Fixed-Mobile				7LAW81D	
87	857-858	1817-1818	Mobile-Fixed	Law Enforcement	7LAW85	7LAW82		
88		SIMPLEX	Base-Fixed-Mobile				7LAW82D	
89	721-722	1681-1682	Mobile-Fixed	Fire	7FIR80	7FIRE83		
90		SIMPLEX	Base-Fixed-Mobile				7FIRE83D	
91	777-778	1737-1738	Mobile-Fixed	Fire	7FIR81	7FIRE84		
92		SIMPLEX	Base-Fixed-Mobile				7FIRE84D	
93	641-642	1601-1602	Mobile-Fixed	EMS	7EMS76	7MED86		
94		SIMPLEX	Base-Fixed-Mobile				7MED86D	
95	697-698	1657-1658	Mobile-Fixed	EMS	7EMS77	7MED87		
96		SIMPLEX	Base-Fixed-Mobile				7MED87D	
97	921-922	1881-1882	Mobile-Fixed	Mobile Data	7DAT87	7DATA89	90.531(a)(1)(i)	
98		SIMPLEX	Base-Fixed-Mobile					7DATA89D

Table 1  
Interoperability Channels in Channel Name Order

LINE ID	FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED OR CONTROL)	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
	RECEIVE	TRANSMIT						
	MHz	MHz	FCC 800 MHz NPSPAC Band (Post-Rebanding)					
99	851.0125	806.0125	Mobile-Fixed	Any Public Safety Eligible	8CAL90	<b>8CALL90</b>	90.16	
100		SIMPLEX	Base-Fixed-Mobile		8CAL90D	<b>8CALL90D</b>		
101	851.5125	806.5125	Mobile-Fixed	Any Public Safety Eligible	8TAC91	<b>8TAC91</b>	90.16	
102		SIMPLEX	Base-Fixed-Mobile		8TAC91D	<b>8TAC91D</b>		
103	852.0125	807.0125	Mobile-Fixed	Any Public Safety Eligible	8TAC92	<b>8TAC92</b>	90.16	
104		SIMPLEX	Base-Fixed-Mobile		8TAC92D	<b>8TAC92D</b>		
105	852.5125	807.5125	Mobile-Fixed	Any Public Safety Eligible	8TAC93	<b>8TAC93</b>	90.16	
106		SIMPLEX	Base-Fixed-Mobile		8TAC93D	<b>8TAC93D</b>		
107	853.0125	808.0125	Mobile-Fixed	Any Public Safety Eligible	8TAC94	<b>8TAC94</b>	90.16	
108		SIMPLEX	Base-Fixed-Mobile		8TAC94D	<b>8TAC94D</b>		

Table 2  
Interoperability Channels in Frequency / Channel Order

FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
RECEIVE	TRANSMIT						
<b>MHz</b>	<b>MHz</b>	<b>FCC 30 MHz Public Safety Band</b>					
39.4600	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	3LAW1	LLAW1	90.20(c)(3) [15]	
<del>39.4800</del>	<del>SIMPLEX</del>	<del>Base-Fixed-Mobile</del>	<del>Fire Proposed</del>	<del>3FIR2</del>	<del>LFIRE2</del>	<del>Prop. 90.20(c)(3) [19]</del>	<i>Proposed use</i>
45.8600	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	3LAW3	LLAW3	90.20(c)(3) [15]	
45.8800	SIMPLEX	Base-Fixed-Mobile	Fire	3FIR4	LFIRE4	90.20(c)(3) [19]	
<b>MHz</b>	<b>MHz</b>	<b>FCC 150 - 162 MHz Public Safety Band</b>					
151.1375	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC5	VTAC11	90.20(c)(3) [80]	
<del>152.0075</del>	<del>SIMPLEX</del>	<del>Base-Fixed-Mobile</del>	<del>Special Emergency</del>	<del>1EMS6</del>		<del>90.20(c)(3) [13,30]</del>	<i>Deleted</i>
154.2650	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR7	VFIRE22	90.20(c)(3) [19]	
154.2725	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR8	VFIRE24	90.20(c)(3) [19]	
154.2800	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR9	VFIRE21	90.20(c)(3) [19]	
154.2875	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR10	VFIRE25	90.20(c)(3) [19]	
154.2950	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR11	VFIRE23	90.20(c)(3) [19]	
154.3025	SIMPLEX	Base-Fixed-Mobile	Fire	1FIR12	VFIRE26	90.20(c)(3) [19]	
154.4525	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC13	VTAC12	90.20(c)(3) [80]	
155.3400	SIMPLEX	Base-Fixed-Mobile	EMS	1EMS14	VMED28	90.20(c)(3) [40]	
155.3475	SIMPLEX	Base-Fixed-Mobile	EMS	1EMS15	VMED29	90.20(c)(3) [40]	
155.4750	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	1LAW16	VLAW31	90.20(c)(3) [41]	
155.4825	SIMPLEX	Base-Fixed-Mobile	Law Enforcement	1LAW17	VLAW32	90.20(c)(3) [41]	
155.7525	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1CAL18	VCALL10	90.20(c)(3) [80,83]	
158.7375	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC22	VTAC13	90.20(c)(3) [80]	
159.4725	SIMPLEX	Base-Fixed-Mobile	Any Public Safety Eligible	1TAC23	VTAC14	90.20(c)(3) [80]	
161.8500	157.2500	Mobile-Fixed	Allocated for Public Safety Use in 33 Inland VPCAs / EAs	1TAC19D	VTAC17	90.20(g)	
	SIMPLEX	Base-Fixed-Mobile		1TAC24	VTAC17D		
161.8250	157.2250	Mobile-Fixed	Allocated for Public Safety Use in 33 Inland VPCAs / EAs	1TAC20D	VTAC18	90.20(g)	
	SIMPLEX	Base-Fixed-Mobile		1TAC25	VTAC18D		
161.8750	157.2750	Mobile-Fixed	Allocated for Public Safety Use in 33 Inland VPCAs / EAs	1TAC21D	VTAC19	90.20(g)	
	SIMPLEX	Base-Fixed-Mobile		1TAC26	VTAC19D		
<b>MHz</b>	<b>MHz</b>	<b>NTIA VHF Law Enforcement Channels</b>					
<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							



Table 2  
Interoperability Channels in Frequency / Channel Order

FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE,MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
RECEIVE	TRANSMIT						
MHz	MHz	NTIA VHF Incident Response Channels					
<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							
MHz	MHz	NTIA UHF Law Enforcement Channels					
<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							
MHz	MHz	NTIA UHF Incident Response Channels					
<p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. There are discrepancies between DA 01-1621 and the current NTIA "Red Book."</i></p> <p><i>NPSTC is working with our Federal partners to clarify the discrepancies and develop a revised name plan for the NTIA channels</i></p>							
MHz	MHz	FCC 450 - 470 MHz Public Safety Band					
453.2125	458.2125	Mobile-Fixed	Any Public Safety Eligible	4CAL27D	<b>UCALL40</b>	90.20(c)(3) [80,83]	
	SIMPLEX	Base-Fixed-Mobile		4CAL27	<b>UCALL40D</b>		
453.4625	458.4625	Mobile-Fixed	Any Public Safety Eligible	4TAC28D	<b>UTAC41</b>	90.20(c)(3) [80]	
	SIMPLEX	Base-Fixed-Mobile		4TAC28	<b>UTAC41D</b>		
453.7125	458.7125	Mobile-Fixed	Any Public Safety Eligible	4TAC29D	<b>UTAC42</b>	90.20(c)(3) [80]	
	SIMPLEX	Base-Fixed-Mobile		4TAC29	<b>UTAC42D</b>		
453.8625	458.8625	Mobile-Fixed	Any Public Safety Eligible	4TAC30D	<b>UTAC43</b>	90.20(c)(3) [80]	
	SIMPLEX	Base-Fixed-Mobile		4TAC30	<b>UTAC43D</b>		

Table 2  
Interoperability Channels in Frequency / Channel Order

FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
RECEIVE	TRANSMIT						
CHANNEL	CHANNEL	<b>FCC 700 MHz Public Safety Band (TV 63 + 68)</b>					
23-24	983-984	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC58	7TAC51	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC51D		
39-40	999-1000	Mobile-Fixed	Calling Channel	7CAL59	7CALL50	90.531(a)(1)(ii)	
	SIMPLEX	Base-Fixed-Mobile			7CALL50D		
63-64	1023-1024	Mobile-Fixed	EMS	7MED60	7MED65		
	SIMPLEX	Base-Fixed-Mobile			7MED65D		
79-80	1039-1040	Mobile-Fixed	EMS	7EMS61	7MED66		
	SIMPLEX	Base-Fixed-Mobile			7MED66D		
103-104	1063-1064	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC62	7TAC52	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC52D		
119-120	1079-1080	Mobile-Fixed	General Public Safety Service	7TAC63	7TAC55		
	SIMPLEX	Base-Fixed-Mobile			7TAC55D		
143-144	1103-1104	Mobile-Fixed	Fire	7FIR64	7FIRE63		
	SIMPLEX	Base-Fixed-Mobile			7FIRE63D		
159-160	1119-1120	Mobile-Fixed	Fire	7FIR65	7FIRE64		
	SIMPLEX	Base-Fixed-Mobile			7FIRE64D		
183-184	1143-1144	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC66	7TAC53	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC53D		
199-200	1159-1160	Mobile-Fixed	General Public Safety Service	7TAC67	7TAC56		
	SIMPLEX	Base-Fixed-Mobile			7TAC56D		
223-224	1183-1184	Mobile-Fixed	Law Enforcement	7LAW68	7LAW61		
	SIMPLEX	Base-Fixed-Mobile			7LAW61D		
239-240	1199-1200	Mobile-Fixed	Law Enforcement	7LAW69	7LAW62		
	SIMPLEX	Base-Fixed-Mobile			7LAW62D		
263-264	1223-1224	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC70	7TAC54	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC54D		
279-280	1239-1240	Mobile-Fixed	Mobile Data	7DAT71	7DATA69	90.531(a)(1)(i)	
	SIMPLEX	Base-Fixed-Mobile			7DATA69D		
303-304	1263-1264	Mobile-Fixed	Mobile Repeater	7MOB72	7MOB59		<i>MO3 operations Primary</i>
	SIMPLEX	Base-Fixed-Mobile			7MOB59D		
319-320	1279-1280	Mobile-Fixed	Other Public Service	7TAC73	7GTAC57		
	SIMPLEX	Base-Fixed-Mobile			7GTAC57D		

Table 2  
Interoperability Channels in Frequency / Channel Order

FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
RECEIVE	TRANSMIT						
CHANNEL	CHANNEL	FCC 700 MHz Public Safety Band (TV 64 + 69)					
641-642	1601-1602	Mobile-Fixed	EMS	7EMS76	7MED86		
	SIMPLEX	Base-Fixed-Mobile			7MED86D		
657-658	1617-1618	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC74	7TAC71	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC71D		
681-682	1641-1642	Mobile-Fixed	Calling Channel	7CAL75	7CALL70	90.531(a)(1)(ii)	
	SIMPLEX	Base-Fixed-Mobile			7CALL70D		
697-698	1657-1658	Mobile-Fixed	EMS	7EMS77	7MED87		
	SIMPLEX	Base-Fixed-Mobile			7MED87D		
721-722	1681-1682	Mobile-Fixed	Fire	7FIR80	7FIRE83		
	SIMPLEX	Base-Fixed-Mobile			7FIRE83D		
737-738	1697-1698	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC78	7TAC72	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC72D		
761-762	1721-1722	Mobile-Fixed	General Public Safety Service	7TAC79	7TAC75		
	SIMPLEX	Base-Fixed-Mobile			7TAC75D		
777-778	1737-1738	Mobile-Fixed	Fire	7FIR81	7FIRE84		
	SIMPLEX	Base-Fixed-Mobile			7FIRE84D		
801-802	1761-1762	Mobile-Fixed	Law Enforcement	7LAW84	7LAW81		
	SIMPLEX	Base-Fixed-Mobile			7LAW81D		
817-818	1777-1778	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC82	7TAC73	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC73D		
841-842	1801-1802	Mobile-Fixed	General Public Safety Service	7TAC83	7TAC76		
	SIMPLEX	Base-Fixed-Mobile			7TAC76D		
857-858	1817-1818	Mobile-Fixed	Law Enforcement	7LAW85	7LAW82		
	SIMPLEX	Base-Fixed-Mobile			7LAW82D		
881-882	1841-1842	Mobile-Fixed	Mobile Repeater	7MOB88	7MOB79		<i>MO3 operations Primary</i>
	SIMPLEX	Base-Fixed-Mobile			7MOB79D		
897-898	1857-1858	Mobile-Fixed	<i>General Public Safety Service (secondary trunked)</i>	7TAC86	7TAC74	90.531(a)(1)(iii)	
	SIMPLEX	Base-Fixed-Mobile			7TAC74D		
921-922	1881-1882	Mobile-Fixed	Mobile Data	7DAT87	7DATA89	90.531(a)(1)(i)	
	SIMPLEX	Base-Fixed-Mobile			7DATA89D		
937-938	1897-1898	Mobile-Fixed	Other Public Service	7TAC89	7GTAC77		
	SIMPLEX	Base-Fixed-Mobile			7GTAC77D		

Table 2  
Interoperability Channels in Frequency / Channel Order

FREQ / FCC CHANNEL (SUBSCRIBER LOAD)		BASE, MOBILE, OR FIXED	ELIGIBILITY / PRIMARY USE	ORIGINAL NCC NAME	TASK GROUP CONSENSUS NAME	LIMITATIONS	TASK GROUP NOTES
RECEIVE	TRANSMIT						
MHz	MHz	FCC 800 MHz NPSPAC Band (Post-Rebanding)					
851.0125	806.0125	Mobile-Fixed	Any Public Safety Eligible	8CAL90	<b>8CALL90</b>	90.16	
	SIMPLEX	Base-Fixed-Mobile		8CAL90D	<b>8CALL90D</b>		
851.5125	806.5125	Mobile-Fixed	Any Public Safety Eligible	8TAC91	<b>8TAC91</b>	90.16	
	SIMPLEX	Base-Fixed-Mobile		8TAC91D	<b>8TAC91D</b>		
852.0125	807.0125	Mobile-Fixed	Any Public Safety Eligible	8TAC92	<b>8TAC92</b>	90.16	
	SIMPLEX	Base-Fixed-Mobile		8TAC92D	<b>8TAC92D</b>		
852.5125	807.5125	Mobile-Fixed	Any Public Safety Eligible	8TAC93	<b>8TAC93</b>	90.16	
	SIMPLEX	Base-Fixed-Mobile		8TAC93D	<b>8TAC93D</b>		
853.0125	808.0125	Mobile-Fixed	Any Public Safety Eligible	8TAC94	<b>8TAC94</b>	90.16	
	SIMPLEX	Base-Fixed-Mobile		8TAC94D	<b>8TAC94D</b>		