

Missouri SIEC Document August 2006

National Mutual Aid Frequencies VHF, UHF & 800

These Mutual Aid Channels are designated by the Federal Communications Commission for multi-discipline public safety use nationally and are utilized in Missouri. The channels are used under guidelines established by either the Missouri State Interoperability Executive Committee (MOSIEC) or, in the case of the 800 MHz channels, the Region 24 800 MHz Regional Planning Committee.

VHF National Mutual Aid Channels (Interoperability under 512 MHz, Docket 96-86)

<u>Channel (MHz)</u>	<u>Label</u>	<u>Description</u>
155.7525 base/mobile	VCALL	National Calling (CSQ-No CTCSS tone utilized)
151.1375 base/mobile	VTAC 1	National Tactical (PL Tone 156.7HZ)
154.4525 base/mobile	VTAC 2	National Tactical (PL Tone 156.7HZ)
158.7375 base/mobile	VTAC 3	National Tactical (PL Tone 156.7HZ)
159.4725 base/mobile	VTAC 4	National Tactical (PL Tone 156.7HZ)

UHF National Mutual Aid Channels (Interoperability under 512 MHz, Docket 96-86)

<u>MO RX</u>	<u>MO TX</u>	<u>PL Tone</u>	<u>Label</u>	<u>Description</u>
453.2125	458.2125	CSQ	UCALL	National Calling
453.4625	458.4625	156.7HZ	UTAC-1	National Tactical
453.7125	458.7125	156.7HZ	UTAC-2	National Tactical
453.8625	458.8625	156.7HZ	UTAC 3	National Tactical

Note: For mobile and portable use of these channels, the FCC offers the use of these channels under a blanket authorization to Part 90 public safety licensees. The MOSIEC has provided complete operational and technical guidelines in the Missouri Memorandum of Understanding, which must be signed, agreed to and submitted prior to use of the channels. [Click here to download a complete copy of the Missouri VHF/UHF MOU.](#)

800 MHz National Mutual Aid Channels (Per Region 24 800 MHz Plan and Docket 87-112)

<u>MO Transmit</u>	<u>MO Receive</u>	<u>PL Tone</u>	<u>Label</u>	<u>Description</u>
821.0125	866.0125	156.7HZ	ICALL	National Calling
821.5125	866.5125	156.7HZ	ITAC-1	National Tactical
822.0125	867.0125	156.7HZ	ITAC-2	National Tactical
822.5125	867.5125	156.7HZ	ITAC-3	National Tactical
8230125	868.0125	156.7HZ	ITAC-4	National Tactical

NOTE The FCC provides limitations to channels immediate adjacent to the designated national interoperability channels listed in this document. Use of channels adjacent to the VHF/UHF national interoperability channels operating with a bandwidth wider than 11KHz after January 1, 2005 are operating secondary to the interoperability channel and will be required by FCC rules to cease operation should they cause interference to the adjacent interoperability channel. Those operating an adjacent frequency for internal agency based operations with a bandwidth of 11 KHz or less can operate primary the adjacent interoperability channel. See limitations below and the descriptions below.

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VHF UHF 800 MHz Multi-Discipline Interoperability Channel limitations

155.745 (Limitation 81)
VCALL 155.7525 MHz (Limitation 80,83)
155.760 (Limitation 81)

151.130 (Limitation 81)
VTAC1 151.1375 MHz (Limitation 80)
151.145 (Limitation 81)

154.445 (Limitation 81)
VTAC2 154.4525 MHz (Limitation 80)
154.460 (Limitation 81)

158.730 (Limitation 81)
VTAC3 158.7375 MHz (Limitation 80)
158.745 (Limitation 81)

159.465 (Limitation 81)
VTAC4 159.4725 MHz (Limitation 80)
159.480 (Limitation 81)

UHF Multi-Discipline Interoperability Channels

453/458.200 (Limitation 81)
453/458.20625 (Limitation 82)
U-CALLa/U-CALL 453/458.2125 (Limitation 80,83)
453/458.21875 (Limitation 82)
453/458.225 (Limitation 81)

453/458.450 (Limitation 81)
453/458.45625 (Limitation 82)
U-TAC1a/U-TAC1 453/458.4625 (Limitation 80)
453/458.46875 (Limitation 82)
453/458.475 (Limitation 81)

453/458.700 (Limitation 81)
453/458.70625 (Limitation 82)
U-TAC2a/U-TAC2 453/458.7125 (Limitation 80)
453/458.71875 (Limitation 82)
453/458.725 (Limitation 81)

453/458.850 (Limitation 81)

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453/458.85625 (Limitation 82)

U-TAC3a/U-TAC3 453/458.8625 (Limitation 80)

453/458.86875 (Limitation 82)

453/458.875 (Limitation 81)

Limitation (80) After December 7, 2000 this frequency is available primarily for public safety interoperability only communications. Stations licensed prior to December 7, 2000 may continue to use this frequency on a co-primary basis until January 1, 2005. After January 1, 2005, all operations will be secondary to co-channel interoperability communications.

Limitation (81) After December 7, 2000 new stations will only be licensed with an authorized bandwidth not to exceed 11.25 kHz. Licensees authorized prior to December 7, 2000 may continue to use bandwidths wider than 11.25 kHz on a co-primary basis until January 1, 2005. After January 1, 2005, all stations operating with an authorized bandwidth greater than 11.25 kHz will be secondary to adjacent channel interoperability operations.

Limitation (82) this frequency is reserved for assignment only in support of, and on a secondary basis to, nationwide interoperability use.

Limitation (83) this interoperability frequency is dedicated for the express purpose of nationwide interoperability calling.

800 MHz Radios See Region 24 NPSPAC plan and FCC Docket 87-112

Channel (MHz)	Label	Description
821/866.0125*	ICALL*	National Calling Channel*
821/866.5125	ITAC-1	National Tactical Channel
822/867.0125	ITAC-2	National Tactical Channel
822/867.5125	ITAC-3	National Tactical Channel
823/868.0125	ITAC-4	National Tactical Channel

* Per FCC regulations, the NPSPAC 800 MHz mutual-aid calling channel is to be used in a conventional analog mode with a dedicated CTCSS of 156.7 Hz.

** The public safety NPSPAC band (FCC Docket 87-112) currently consists of six (6) MHz in the 800 MHz band from 821-824 MHz (mobile transmit) and 866-869 MHz (base transmit). The recent 800 MHz re-banding decision from the FCC (Docket 02-55) will move the NPSPAC band, in its entirety, down 15 MHz to the 806-809 MHz band (mobile input) and 851-854 MHz (base transmit). Per the most recent timeline issued by the FCC appointed Transition Administrator, the re-banding process begins in Region 24 (Missouri) on or around October 1, 2005.