



ANDREW M. CUOMO
Governor

PATRICK A. MURPHY
Acting Commissioner

COMMUNICATIONS GUIDELINE NUMBER 16-02

**New York State Minimum Channel Programming of
Interoperability and Common Channels for Public Safety
Mobile and Portable Radios**

Effective: Immediately

Date issued: June 20th, 2019

Valid: Until revoked or superseded

Revision: 2 (7CALL70D, 7TAC76D Names)

SUMMARY:

This document establishes a minimum programming for interoperability and common channels into all subscriber unit (e.g. mobile and portable radios) used by **public safety** in New York State.

JUSTIFICATION:

In order to ensure radio subscriber units are prepared to communicate at an incident, public safety radios should be programmed with a minimum set of common channels. This document describes that set.

DESCRIPTION:

In order to ensure that public safety has the necessary common channels available this guideline contains the **minimum** channels that should be programmed into to all public safety radio users, appropriate to the frequency band(s) the radio is capable of supporting. The exact channel position in the “zone” or “bank” to place these channels in are left to the user agency. However, it is imperative that users are able to access these channels when needed and are trained in their location and use. This document presents a minimum guideline; it does not prevent the programming and use of other channels authorized and available to a user. The State encourages the sharing of channels among jurisdictions, within the appropriate license and authorization authority.

LICENSING:

- Certain channels are licensed by Federal Communications Commission rule for mobile and portable users for agencies with a valid FCC Part 90 license and further licensing is not required. These include: VCALL10, VTAC11-14, UCALL40/UCALL40D, UTAC41-43/UTAC41-43D, and all 700 MHz and 800 MHz Interoperability channels listed here.
- All other channels require the user to have an FCC license or be authorized through agreement with a licensee before use.
- **IN ALL CASES, base stations MUST have a fixed point license for any of these channels.** Further information on base stations are detailed in a separate guideline.
- VHF and UHF channels may be subject to “Line-A” restrictions in areas of the State.

PERMITTED USES:

- Interoperable communications, such as multiagency and/or multijurisdictional responses.

PROHIBITED USES:

- Dispatching a single agency or as substitution for internal agency operations;
- Substitution for an internal agency operational channel;
- Single agency tactical communications;
- Routine fire ground communications;
- Routine National Crime Information Center (NCIC) or Department of Motor Vehicles (DMV) type checks.
- NOTE: Certain channels and users may be grandfathered for operational agency use with a valid FCC license for those uses.
- CAUTION: Some of these frequencies are not for the exclusive use of interoperable communications, as they are licensed by other entities for their own operational purposes. Transient users of the frequencies operating in other areas of the state (during mutual-aid conditions) must avoid causing interference with other licensed users.

TECHNICAL PARAMETERS:

- For VHF-Low channels, **only analog** transmissions are permitted.
- For VHF-HI and UHF channels, only **analog, narrowband** transmissions are permitted.
- For 700 MHz channels, the use of **Project-25 (P25) is required**.
- For 800 MHz channels, only the use of 16K0F3E **analog** transmissions is permitted.
- The use of a radio programmed “**time out timer**” is mandatory, with transmissions not permitted to exceed 120 seconds (2 minutes) each.

- All frequencies are list in megahertz (MHz).
- CTCSS is Continuous Tone-Coded Squelch System. CSQ refers to carrier squelch operation (no tone). Most channels are indicated as CSQ receive to improve interoperability. Agencies wishing to program the National Interoperability Field Operations Guide (NIFOG) standard receive CTCSS must ensure their radios and users are able to disable the tone if necessary.
- An “X” in the service column indicates to program that channel.

Low Band - Interoperability and Common Channels							
FCC License Required							
<i>Channel name</i>	<i>Receive Frequency (MHz)</i>	<i>Receive CTCSS (Hz)</i>	<i>Transmit Frequency (MHz)</i>	<i>Transmit CTCSS (Hz)</i>	<i>EMS¹</i>	<i>Fire</i>	<i>Law Enforcement</i>
LLAW1D	39.46	CSQ	39.46	156.7			X
LFIRE4D	45.88	156.7 Opt ²	45.88	156.7		X	
NYFIRE22	46.22	CSQ	46.22	156.7		X	
NYFIRE30 ³	46.30	CSQ	46.30	156.7		X	

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¹ The “EMS” category also includes the Fire service when engaged in EMS activities.

² See “New York State Interoperability Channel Naming: 45.88” for more information on receive CTCSS for LFIRE4D.

³ 46.30 limited to 10-watt transmit power per FCC Rules. Must observe license restrictions.

National Interoperability Channels – VHF High Band							
Mobiles and Portables Licensed by FCC Rule							
Restricted to Interoperability Use Only							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
VCALL10	155.7525	CSQ	155.7525	156.7	X	X	X
VTAC11	151.1375	CSQ	151.1375	156.7	X	X	X
VTAC12	154.4525	CSQ	154.4525	156.7	X	X	X
VTAC13	158.7375	CSQ	158.7375	156.7	X	X	X
VTAC14	159.4725	CSQ	159.4725	156.7	X	X	X
VTAC36	151.1375	CSQ	159.4725	136.5	X	X	X
VTAC37	154.4525	CSQ	158.7375	136.5	X	X	X
VTAC38	158.7375	CSQ	159.4725	136.5	X	X	X
FIRE SERVICE - VHF Common Channels							
FCC License Required							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
VFIRE21	154.2800	CSQ	154.2800	156.7		X	
VFIRE22	154.2650	CSQ	154.2650	156.7		X	
VFIRE23	154.2950	CSQ	154.2950	156.7		X	
VFIRE24	154.2725	CSQ	154.2725	156.7		X	
VFIRE25	154.2875	CSQ	154.2875	156.7		X	
VFIRE26	154.3025	CSQ	154.3025	156.7		X	
NYFIRE83 ⁴	153.8300	CSQ	153.8300	156.7		X	
LAW ENFORCEMENT - VHF Common Channels							
FCC License Required							
Restricted access to LAW ENFORCEMENT ONLY							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
NYLAW1	155.3700	110.9 Opt. ⁵	155.3700	110.9			X
VLAW31	155.4750	CSQ	155.4750	156.7			X
VLAW32	155.4825	CSQ	155.4825	156.7			X

⁴ 153.830 limited to 100-watt transmit power per FCC Rules. Must observe license restrictions.

⁵ See “New York State Interoperability Channel Naming: 155.370 MHz” for more details on receive CTCSS for NYLAW1.

EMS – VHF Common channels							
FCC License Required							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
NYMED175	155.1750	CSQ	155.1750	156.7	X	X	
NYMED220	155.2200	CSQ	155.2200	156.7	X	X	
NYMED280	155.2800	CSQ	155.2800	156.7	X	X	
NYMED295	155.2950	CSQ	155.2950	156.7	X	X	
NYMED400	155.4000	CSQ	155.4000	156.7	X	X	
NYMED715	155.7150	CSQ	155.7150	156.7	X	X	
VMED28	155.3400	CSQ	155.3400	156.7	X	X	
VMED29	155.3475	CSQ	155.3475	156.7	X	X	
VSAR16	155.1600	CSQ	155.1600	127.3	X	X	

National Interoperability Channels – UHF							
Mobiles and Portables Licensed by FCC Rule							
Restricted to Interoperability Use Only							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
UCALL40	453.2125	CSQ	458.2125	156.7	X	X	X
UCALL40D	453.2125	CSQ	453.2125	156.7	X	X	X
UTAC41	453.4625	CSQ	458.4625	156.7	X	X	X
UTAC41D	453.4625	CSQ	453.4625	156.7	X	X	X
UTAC42	453.7125	CSQ	458.7125	156.7	X	X	X
UTAC42D	453.7125	CSQ	453.7125	156.7	X	X	X
UTAC43	453.8625	CSQ	458.8625	156.7	X	X	X
UTAC43D	453.8625	CSQ	453.8625	156.7	X	X	X

MED Channels – UHF							
FCC License Required							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
MED-9	462.9500	CSQ	467.9500	CSQ	X		
MED-9D	462.9500	CSQ	462.9500	CSQ	X		
MED-10	462.9750	CSQ	467.9750	CSQ	X		
MED-10D	462.9750	CSQ	462.9750	CSQ	X		
MED-92D ⁶	462.9625	CSQ	462.9625	CSQ	X		

⁶ Designated by the New York State Department of Health for Air-to-Ground coordination.

National Interoperability Channels – 700 MHz

Mobiles and Portables Licensed by FCC Rule

Restricted to Interoperability Use Only – Use of P-25 is required by FCC Rules

<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive NAC</i>	<i>Transmit Frequency</i>	<i>Transmit NAC</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
7CALL50	769.24375	\$F7E	799.24375	\$293	X	X	X
7CALL50D	769.24375	\$F7E	769.24375	\$293	X	X	X
7TAC51	769.14375	\$F7E	799.14375	\$293	X	X	X
7TAC51D	769.14375	\$F7E	769.14375	\$293	X	X	X
7TAC52	769.64375	\$F7E	799.64375	\$293	X	X	X
7TAC52D	769.64375	\$F7E	769.64375	\$293	X	X	X
7TAC53	770.14375	\$F7E	800.14375	\$293	X	X	X
7TAC53D	770.14375	\$F7E	770.14375	\$293	X	X	X
7TAC54	770.64375	\$F7E	800.64375	\$293	X	X	X
TAC54D	770.64375	\$F7E	770.64375	\$293	X	X	X
7TAC55	769.74375	\$F7E	799.74375	\$293	X	X	X
7TAC55D	769.74375	\$F7E	769.74375	\$293	X	X	X
7TAC56	770.24375	\$F7E	800.24375	\$293	X	X	X
7TAC56D	770.24375	\$F7E	770.24375	\$293	X	X	X
7GTAC57	770.99375	\$F7E	800.99375	\$293	X	X	X
7GTAC57D	770.99375	\$F7E	770.99375	\$293	X	X	X
7CALL70	773.25625	\$F7E	803.25625	\$293	X	X	X
7CALL70D	773.25625	\$F7E	773.25625	\$293	X	X	X
7TAC71	773.10625	\$F7E	803.10625	\$293	X	X	X
7TAC71D	773.10625	\$F7E	773.10625	\$293	X	X	X
7TAC72	773.60625	\$F7E	803.60625	\$293	X	X	X
7TAC72D	773.60625	\$F7E	773.60625	\$293	X	X	X
7TAC73	774.10625	\$F7E	804.10625	\$293	X	X	X
7TAC73D	774.10625	\$F7E	774.10625	\$293	X	X	X
7TAC74	774.60625	\$F7E	804.60625	\$293	X	X	X
7TAC74D	774.60625	\$F7E	774.60625	\$293	X	X	X
7TAC75	773.75625	\$F7E	803.75625	\$293	X	X	X
7TAC75D	773.75625	\$F7E	773.75625	\$293	X	X	X
7TAC76	774.25625	\$F7E	804.25625	\$293	X	X	X
7TAC76D	774.25625	\$F7E	774.25625	\$293	X	X	X
7GTAC77	774.85625	\$F7E	804.85625	\$293	X	X	X
7GTAC77D	774.85625	\$F7E	774.85625	\$293	X	X	X

National Interoperability Channels – 800 MHz Mobiles and Portables Licensed by FCC Rule Restricted to Interoperability Use Only							
<i>Channel name</i>	<i>Receive Frequency</i>	<i>Receive CTCSS</i>	<i>Transmit Frequency</i>	<i>Transmit CTCSS</i>	<i>EMS</i>	<i>Fire</i>	<i>Law Enforcement</i>
8CALL90	851.0125	CSQ	806.0125	156.7	X	X	X
8CALL90D	851.0125	CSQ	851.0125	156.7	X	X	X
8TAC91	851.5125	CSQ	806.5125	156.7	X	X	X
8TAC91D	851.5125	CSQ	851.5125	156.7	X	X	X
8TAC92	852.0125	CSQ	807.0125	156.7	X	X	X
8TAC92D	852.0125	CSQ	852.0125	156.7	X	X	X
8TAC93	852.5125	CSQ	807.5125	156.7	X	X	X
8TAC93D	852.5125	CSQ	852.5125	156.7	X	X	X
8TAC94	853.0125	CSQ	808.0125	156.7	X	X	X
8TAC94D	853.0125	CSQ	853.0125	156.7	X	X	X

UNIT IDENTIFICATION:

- Users shall identify their agency when initiating transmissions on interoperability and common channels. E.g. “Empire County Sheriff Unit 241 to Any town Police K-9 Unit”).
- Users shall utilize plain language when operating on interoperability and common channels.
- Automatic Number Identification (ANI) is not required on these channels. It is discouraged to transmit a default radio unit ANI on these channels due to the varying formats in use.

MISUSE OF CHANNELS:

- **Concerns** regarding this document or misuse of interoperability and common channels should be reported to the New York State Division of Homeland Security and Emergency Services, Office of Interoperable and Emergency Communications by Email: DHSES.OIEC@dhSES.ny.gov or Phone: 518-322-4911.
- **Issues affecting the immediate use of these channels or interference** should be reported to the FCC public safety support center at 202-418-1122.