

New York State Federation of Search and Rescue Teams

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Communications Plans for Interoperability and Training Events

The purpose of this document is to give you the information on communications during searches and training events. The New York State Federation of SAR Teams hold a statewide FCC Radio License of WQYS406. In accordance with the license specifications there are these items to be followed –

1. NYS FEDERATION OF SAR TEAMS, INC (NY) agrees to operate the statewide mobiles on this application in a secondary manner. We agree to accept interference from primary users of the spectrum and will not cause interference to those primary licensees. The frequencies subject to secondary operation for statewide use are: 155.160MHz
2. Power levels depend on the location utilized in NYS. Location 1 is above Line A and power is limited to 5 watts ERP. Location 2 is below Line A and power is limited to 25 watts ERP. (See Figure 1)
3. 3 - NYS Federation of SAR Teams will utilize a CTCSS(PL) tone of 127.3 in accordance with NYS Interoperability Channel Naming Document and the NIFOG Version 1.6.1 Page 29
4. NYS Federation of SAR Teams will utilize the Alias of VSAR 16 in accordance with the NIFOG V 1.6.1

Along with the “VSAR 16” SAR frequency there are 5 frequencies that can be used for training without licensing.

MURS Radio Frequencies

These frequencies can be used for any SAR activity as outlined in the FCC rules. As these frequencies are open to every one you might experience interference on certain channels depending on the area. This will give SAR team’s additional frequencies for training missions and any other activity.

151.820 – 12.5 KHz
151.880 – 12.5 KHz
151.940 – 12.5 KHz
154.570 – 20 KHz
154.600 – 20 KHz

Per 95.639 ERP is maximum of 2 watts.

Per 95.1301 No license is needed. MURS is available for unlicensed business or personnel use.

Per 95.1315 Antenna height is limited to 20 feet above a structure or 60 feet above ground, whichever is greater

Recommended channel lineup:

151.820 / 131.8 – TAC 1
151.880 / 131.8 – TAC 2
151.940 / 131.8 – TAC 3
154.600 / 131.8 – TAC 4
154.570 / 131.8 – TAC 5

National Mutual Aid Frequencies

The National Mutual Aid Frequencies should be in your radios and available to use on a SAR Mission if needed. NIFOG Version 1.6.1 should be reviewed for specific information on the National Interop Frequencies.

Non-Federal VHF National Interoperability Channels					
VHF High Band					
Description	Channel Name	Mobile Receive Freq.	Mobile Receive CTCSS Tone	Mobile Transmit Freq.	Mobile Transmit CTCSS Tone
Calling	VCALL10	155.7525	156.7 (5A)	155.7525	156.7 (5A)
Tactical	VTAC11 *	151.1375	156.7 (5A)	151.1375	156.7 (5A)
Tactical	VTAC12 *	154.4525	156.7 (5A)	154.4525	156.7 (5A)
Tactical	VTAC13	158.7375	156.7 (5A)	158.7375	156.7 (5A)
Tactical	VTAC14	159.4725	156.7 (5A)	159.4725	156.7 (5A)
Tac Rpt	VTAC33 * •	159.4725	156.7 (5A)	151.1375	136.5 (4Z)
Tac Rpt	VTAC34 * •	158.7375	156.7 (5A)	154.4525	136.5 (4Z)
Tac Rpt	VTAC35 •	159.4725	156.7 (5A)	158.7375	136.5 (4Z)
Tac Rpt	VTAC36 * •	151.1375	156.7 (5A)	159.4725	136.5 (4Z)
Tac Rpt	VTAC37 * •	154.4525	156.7 (5A)	158.7375	136.5 (4Z)
Tac Rpt	VTAC38 •	158.7375	156.7 (5A)	159.4725	136.5 (4Z)

*VTAC11-12, VTAC33-34, and VTAC36-37 may not be used in Puerto Rico or the USVI.
 • VTAC33-38 recommended for deployable tactical repeater use only (FCC Station Class FB2T).
 • VTAC36-38 are preferred; VTAC33-35 should be used only when necessary due to interference.
 All channels on this page are NARROWBAND only. Limited to 3 watts ERP North of Line A or East of Line C.

National Mutual Aid Frequencies are designed for interoperability with Fire, Police, EMS, and Government Agencies.

At this time any P25 use on SAR channels will follow the NIFOG frequency plan and use NAC code of 293.

Questions or comments please contact:

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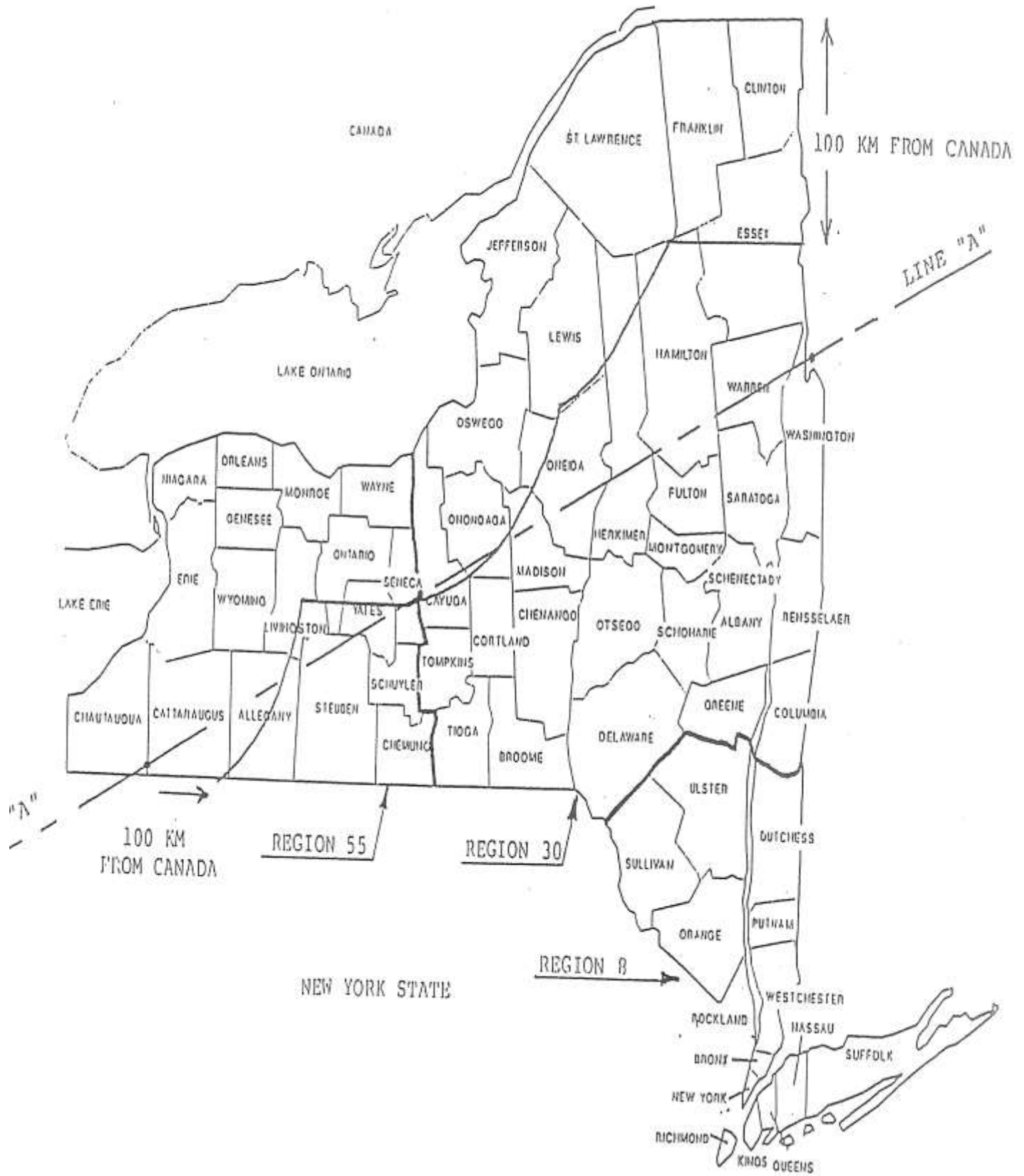


Figure 1 – Line A