

Minnesota DNR Forestry Aviation

Technical Issue Bulletin

April 19, 2018

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Subject: Radio programming for VHF-FM aviation radios

Areas of Concern: Tone not enabled in channel **50-BIA—Red Lake (Five-Oh)** and programming change to channel **19-West Repeater* (Digital)** and channel **20-West Repeater* (Analog)**

Distribution: All users

Discussion: During radio testing on the first day on contract with a vendor helicopter platform it was discovered that there was an error in the computer generated program for channel 50. The radio frequency card (page 2) is correct, the transmit tone was not enabled. Additionally, due to difficulties communicating with aircraft dispatchers and flight followers at the MNCC Aviation Desk and Airtanker Bases we are changing the receive tone/NAC on channels 19 and 20.

Mitigation:

1. Inspect the radio program in your agency or companies VHF-FM aircraft radios and change the programming as follows:

CH	AREA / DESIGNATOR		FREQUENCY	TONE/NAC	N/D
19	WEST REPEATER *	Rx	151.3700	\$585	D
	New York Mills {Digital}	Tx	156.1350	\$585	
20	WEST REPEATER *	Rx	151.3700	141.3	N
	New York Mills {Analog}	Tx	156.1350	141.3	
50	BIA – RED LAKE (Five-Oh)		166.2750	Tx - 114.8	N

The changes listed above may be hand entered, or the new computer generated codeplug may be utilized. The file name is “TDP-136 2018 FILE.136” and will be sent to vendor and agency contacts with this bulletin. The hand-entry process on TDFM radios is as follows:

- Channel 19: Press the SQL button it will show Rn, press enter again, this shows the existing NAC code (\$555), to change press the sideways (6) arrow to the second number, from there press the up arrow to change this to 8, then press enter, enter, enter to get out of the program; the NAC is now changed to \$585.
- Channel 20: Press the SQL button then press enter as it shows Rt – the old tone of 136.5 shows, press the up arrow to change the tone to 141.3; press enter, enter, enter till you are out of that program change section; The “tone” is now changed to the new tone of 141.3.
- Channel 50: Press the SQL button, scroll through to the TX portion, press the up arrow to advance to “TT”; the tone will display as 114.8; press enter, enter, enter to get out of the

program. (This enables the tone on the transmit side, which was overlooked in the original program).

It is standard protocol that MN DNR personnel thoroughly examine the radio program as aviation resources are brought into the State. Please work to help ensure that the above identified radio programming problems have been alleviated.

2. Attached is an updated radio frequency card for page 1 and the Air Net card for your reference. These will not be printed and laminated. Instead, please make a change with stickers that have been provided, or a marker/ink change to the card. There is no change to radio frequency card pages 2-4.

Any further questions may be directed to MN DNR Aviation personnel:

Helicopter Operations Specialist—Robert Johnson

Fixed Wing Operations Specialist—Paul Wannarka

Assistant Wildfire Aviation Supervisor—Matt Woodwick

Wildfire Aviation Supervisor—Darren Neuman

/s/ Darren Neuman

Darren Neuman

Wildfire Aviation Supervisor, DNR

Attachment 1:

MN DNR FORESTRY AVIATION PROGRAM				
TAC, A/G, AIR NET & AM (Victor) RADIO FREQUENCY CARD				
Updated 4/18/18				
CH	AREA / DESIGNATOR	FREQUENCY	TONE/MAC	N/D
1	DNR TAC 1	151.4750	156.7	N
2	MINICS TAC 2	170.4750		N
3	DNR A/G 1	151.3400	110.9	N
4	DNR A/G 2	159.3000	110.9	N
5	A/G - 3	166.6125		N
6	A/G - 70	167.9500		N
7	AIR NET SIMPLEX (Digital)	151.3700	\$555	D
8	AIR NET SIMPLEX (Analog)	151.3700	136.5	N
9	CENTRAL REPEATER* Quadna (Digital)	Rx 151.3700 Tx 156.1350	\$555 \$455	D
10	CENTRAL REPEATER* Quadna (Analog)	Rx 151.3700 Tx 156.1350	136.5 110.9	N
11	NORTHEAST REPEATER* Eveleth (Digital)	Rx 151.3700 Tx 156.1350	\$555 \$40B	D
12	NORTHEAST REPEATER* Eveleth (Analog)	Rx 151.3700 Tx 156.1350	136.5 103.5	N
13	NORTH-CENTRAL RPTR* Northome (Digital)	Rx 151.3700 Tx 156.1350	\$555 \$4F9	D
14	NORTH-CENTRAL RPTR* Northome (Analog)	Rx 151.3700 Tx 156.1350	136.5 127.3	N
15	CARLOS SIMPLEX - Air Net (A)	151.3700	100.0	N
16	SOUTH REPEATER* Buffalo (Analog)	Rx 151.3700 Tx 156.1350	100.0 136.5	N
17	NORTHWEST REPEATER* Wannaska (Digital)	Rx 151.3700 Tx 156.1350	\$555 \$4A4	D
18	NORTHWEST REPEATER* Wannaska (Analog)	Rx 151.3700 Tx 156.1350	136.5 118.8	N
19	WEST REPEATER* New York Mills (Digital)	Rx 151.3700 Tx 156.1350	\$585 \$585	D
20	WEST REPEATER* New York Mills (Analog)	Rx 151.3700 Tx 156.1350	141.3 141.3	N
21	ARROWHEAD RPTR* Grand Marais (Digital)	Rx 151.3700 Tx 156.1350	\$455 \$4CE	D
22	ARROWHEAD RPTR* Grand Marais (Analog)	Rx 151.3700 Tx 156.1350	136.5 123.0	N
23	HELIBASE DECK / RAMP	159.2400	100.0	N
VHF - AM (VICTOR) FREQUENCIES				
DETECTION & HELICOPTER INITIAL ATTACK - AIR/AIR				
FIXED WING & ADDITIONAL AIR/AIR FREQUENCIES				
AS ASSIGNED THROUGH FIRE CENTER				
MINICS - ALL RISK FREQUENCY - AIR/AIR				
TANKER BASE OPERATIONS - AIR/GROUND/RAMP				
TRANSPONDER 1255				
LIGHTS ON				
MAC codes for Digital in "HEX" format (\$) -- * Indicates repeater				
Note: AIR GUARD toned on Tx only				
AIR GUARD				
168.625 Tx - 110.9 N				

Attachment 2:

