

Application Purpose

Mars Hill Broadcasting (Mars Hill) proposes to modify station WMHY FIN 174409 Richfield Springs, NY.

Contingent Processing Requested

Contingent processing is requested for this WMHY proposal along with a proposed modification of WCIJ FIN 174290 Unadilla, NY. WMHY proposes to change operation from Channel 204A to Channel 203A with no change in the Antenna Pattern or the Effective Radiated Power. WCIJ proposes to continue operation on Channel 205B with an increase in Effective Radiated Power to 6.5kw utilizing an omni directional antenna. As seen in Exhibit 1-A, when both proposals are considered together, no prohibited overlap will be occur between WMHY and WCIJ.

Terrain Database Specification

Note: Globe 30 Terrain Database is used throughout the Interference and Coverage Studies.

Channel Study

REFERENCE		CH# 203A - 88.5 MHz, Pwr= 0.61 kW DA, HAAT= 116.0 M, COR= 505 M								DISPLAY DATES	
42 55 11.2 N.		Average Protected F(50-50)= 17.7 km								DATA 12-09-21	
74 57 00.5 W.		Standard Directional								SEARCH 12-09-21	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
204A Richfield Springs	WMHY!	LIC	DVN NY	0.0 0.0	0.00 BLED20130215AAK	42 55 11.20 74 57 00.50	0.610 116	505	---	Reference---	
06 1 Schenectady	WRGB	STA	HN NY	112.8 293.4	83.40 0000035622	41 12 45.20 76 57 07.79	60.000 392	9.8 649	92.5	102.2R	-18.8M
203D West Schuyler	W203BZ!	LIC	DVN NY	323.6 143.5	30.82 BLFT20160128BCF	43 08 34.30 75 10 31.60	0.010 387	28.7	8.7	-9.9	-16.9*
06 1 Schenectady	WRGB	LI	HN NY	112.8 293.4	83.40 BLCDT-20110428ABT	41 12 45.20 76 57 07.79	30.200 392	9.8 649	85.3	95.1R	-11.7M
06 1 Schenectady	WRGB	LI	HN NY	112.8 293.4	83.40 BMLCDT-20110816AAF	41 12 45.20 76 57 07.79	30.200 392	9.8 649	85.3	95.1R	-11.7M
201A Dolgeville	WVVC-FM	LIC	CN NY	2.2 182.2	20.33 BLED20150505AAI	43 06 09.30 74 56 25.60	0.150 206	0.9 500	18.8	1.3	0.5
201D Utica	W201DQ!	LIC	DCN NY	303.4 123.2	23.86 BLFT20190508AAE	43 02 15.30 75 11 43.60	0.010 463	0.0	0.2	13.6	23.3
203B Spencer	WCII	LIC	DCN NY	227.4 46.5	147.50 BLED19940523KA	42 00 50.20 76 15 51.70	17.000 180	118.9 561	47.5	16.2	72.2
203C1 Ottawa	CILV-FM+«	PRO	?CN ON	349.4 168.9	259.88 20150909CA1	45 13 01.17 75 33 48.89	90.000 131	148.7 219	68.2	243.0R	16.9M
204A Clinton	WHCL-FM	LIC	CN NY	291.6 111.3	39.87 BLED19840427CI	43 03 04.20 75 24 22.60	0.270 29	14.2 299	7.2	20.1	17.6
202B Syracuse	WAER	LIC	DCN NY	277.9 97.1	96.88 BLED19950203KA	43 02 01.20 76 07 51.70	50.000 84	70.7 282	43.4	18.7	43.1
256D Utica	W256AJ«!	LIC	DCN NY	323.8 143.7	31.23 BLFT20120926AFQ	43 08 46.30 75 10 38.60	0.250 237	30.5 481	20.7	9.5R	21.7M
205B Unadilla	WCIIJ	LIC	DVN NY	207.8 27.6	66.40 BLED20100506ABT	42 23 27.30 75 19 39.60	5.000 241	3.2 677	34.2	49.2	29.3
202B1 Loudonville	WVCR-FM	LIC	CN NY	111.8 292.4	83.59 BLED20010404AAV	42 38 13.30 74 00 03.50	2.800 256	38.2 496	21.9	32.6	37.8
257D Hamilton	W257BE«!	LIC	CN NY	256.0 75.6	49.09 BLFT20050510ACT	42 48 42.20 75 31 57.60	0.012 48	30.5 480	20.7	9.5R	39.6M
206B Schenectady	WMHT-FM	LIC	CN NY	112.8 293.4	83.40 BLED20121121ACB	42 37 31.30 74 00 36.50	6.100 361	3.8 627	40.4	66.0	41.9
257D Oneonta	W257BL«!	LIC	DCN NY	191.4 11.3	52.50 BLFT20050518AEW	42 27 23.20 75 04 35.50	0.250 2	30.5 490	20.7	9.5R	43.0M
204A Old Forge	767618	APP	CN NY	359.4 179.4	86.10 0000166845	43 41 39.00 74 57 40.00	0.350 124	21.0 706	14.1	47.0	44.8
201B1 Greene	WSQN	LIC	DVN NY	220.8 40.4	70.71 BLED20181029AAV	42 26 13.20 75 30 48.60	4.500 182	1.7 604	21.1	56.1	47.1

Mars Hill Broadcasting

Exhibit 2 Richfield Springs, NY

Westvale	CP	DHN	279.3	100.10	41 12 45.20	1.500	6.8	8.3	15.2R	84.9M
		NY	98.4	0000150238	76 57 07.79		220			
06+-- WVOA-LP«	STA	D N	279.3	100.10	41 12 45.20	0.300	4.1	10.1	14.1R	86.0M
Westvale		NY	98.4	0000157033	76 57 07.79		220			
06+-- WVOA-LP«	LI	D N	279.3	100.10	41 12 45.20	0.300	4.1	10.1	14.1R	86.0M
Westvale		NY	98.4	BLTVL-20090622AAX	76 57 07.79		220			
06--- WXXW-LD/W«	CP	HN	221.5	121.06	41 12 45.20	0.016	11.1	3.2	14.2R	106.8M
Binghamton		NY	40.8	0000144350	76 57 07.79		275			
06--- WXXW-LP«	LI	N	221.1	120.31	41 12 45.20	0.016	6.6	3.2	9.7R	110.6M
Binghamton		NY	40.4	BLTVL-20060515AAC	76 57 07.79		324			
06Z-- WNDR-LP«	STA	D N	272.1	133.22	41 12 45.20	1.450	5.3	6.1	11.4R	121.8M
Auburn		NY	91.0	0000156880	76 57 07.79		185			
06Z-- WNDR-LP«	LI	D N	272.1	133.22	41 12 45.20	1.450	5.3	6.1	11.4R	121.8M
Auburn		NY	91.0	BLTVL-20120312AAI	76 57 07.79		185			
6 CJOH-TV-6««	CHA	D Y	309.1	218.94	41 12 45.20	2.200	13.4	56.8	70.2R	148.7M
Deseronto		ON	127.7	DTVBL703894	76 57 07.79		396			
06 CJOH-TV-6««	LI	DHN	309.1	218.94	41 12 45.20	2.200	13.4	56.8	70.2R	148.7M
Deseronto		ON	127.7	CANADA170	76 57 07.79		396			

Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

In & Out distances between contours are shown at closest points. Reference Zone= - Zone 1, Co to 3rd adjacent.

All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

""affixed to 'IN' or 'OUT' values = site inside restricted contour.

« = Station meets FCC minimum distance spacing for its class.

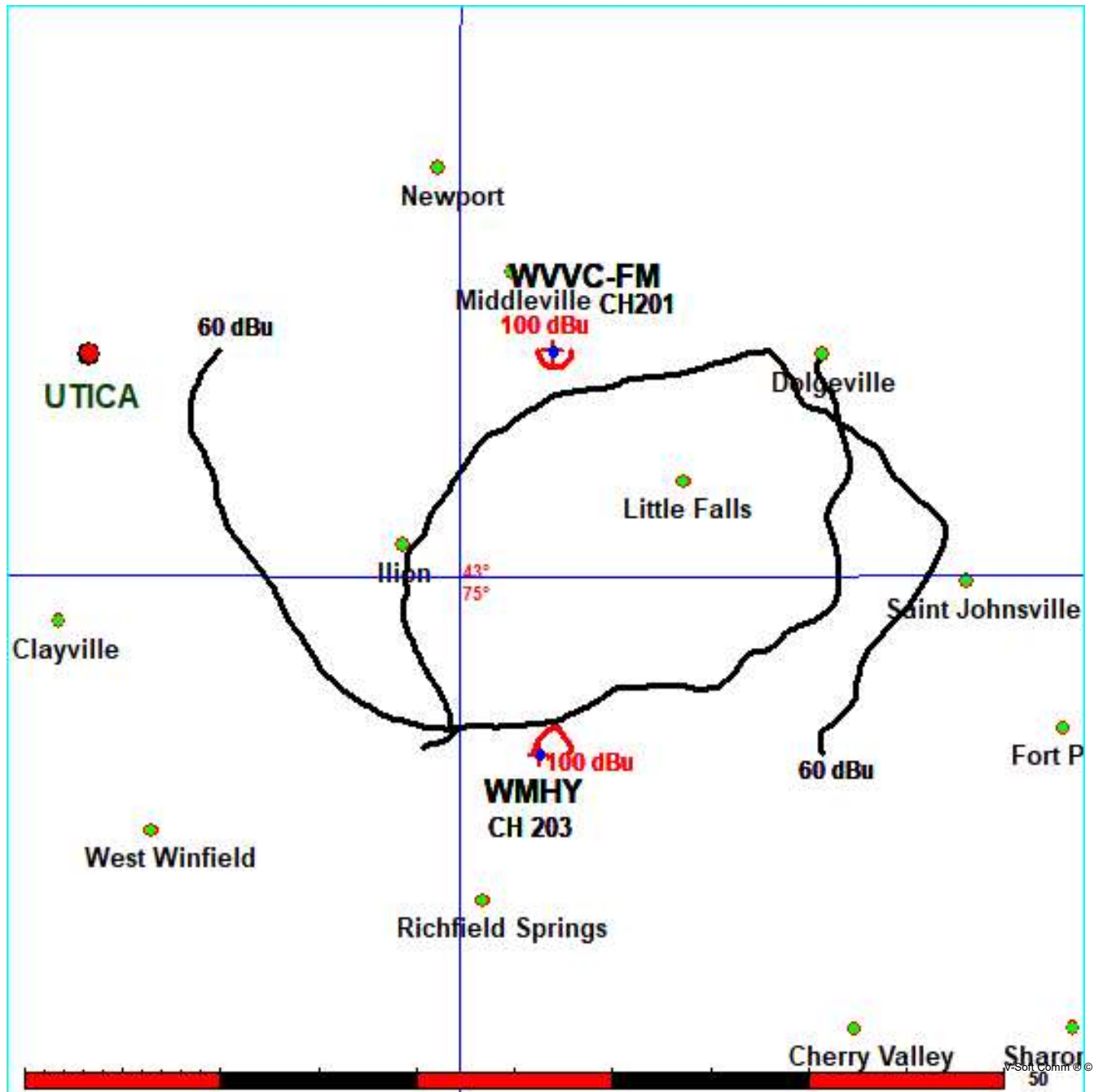
Reference station has protected zone issue: Canada

Mars Hill Broadcasting Co., I

FMCommander Single Allocation Study - 12-09-2021 - GLOBE 30 Sec
WMHY's Overlaps (In= 1.34 km, Out= 0.48 km)

WMHY CH 203 A DA
Lat= 42 55 11.20, Lng= 74 57 00.50
0.61 kW 116 m HAAT, 505 m COR
Prot.= 60 dBu, Intef.= 100 dBu

WVVC-FM CH 201 A BLED20150505AAI
Lat= 43 06 09.30, Lng= 74 56 25.60
0.15 kW 206 m HAAT, 500 m COR
Prot.= 60 dBu, Intef.= 100 dBu



Mars Hill Broadcasting Co., I

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0.61 kW 116 m HAAT, 505 m COR
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WVVC-FM CH 201 A BLED20150505AAI
Lat= 43 06 09.30, Lng= 74 56 25.60
0.15 kW 206 m HAAT, 500 m COR
Prot.= 60 dBu, Intef.= 100 dBu

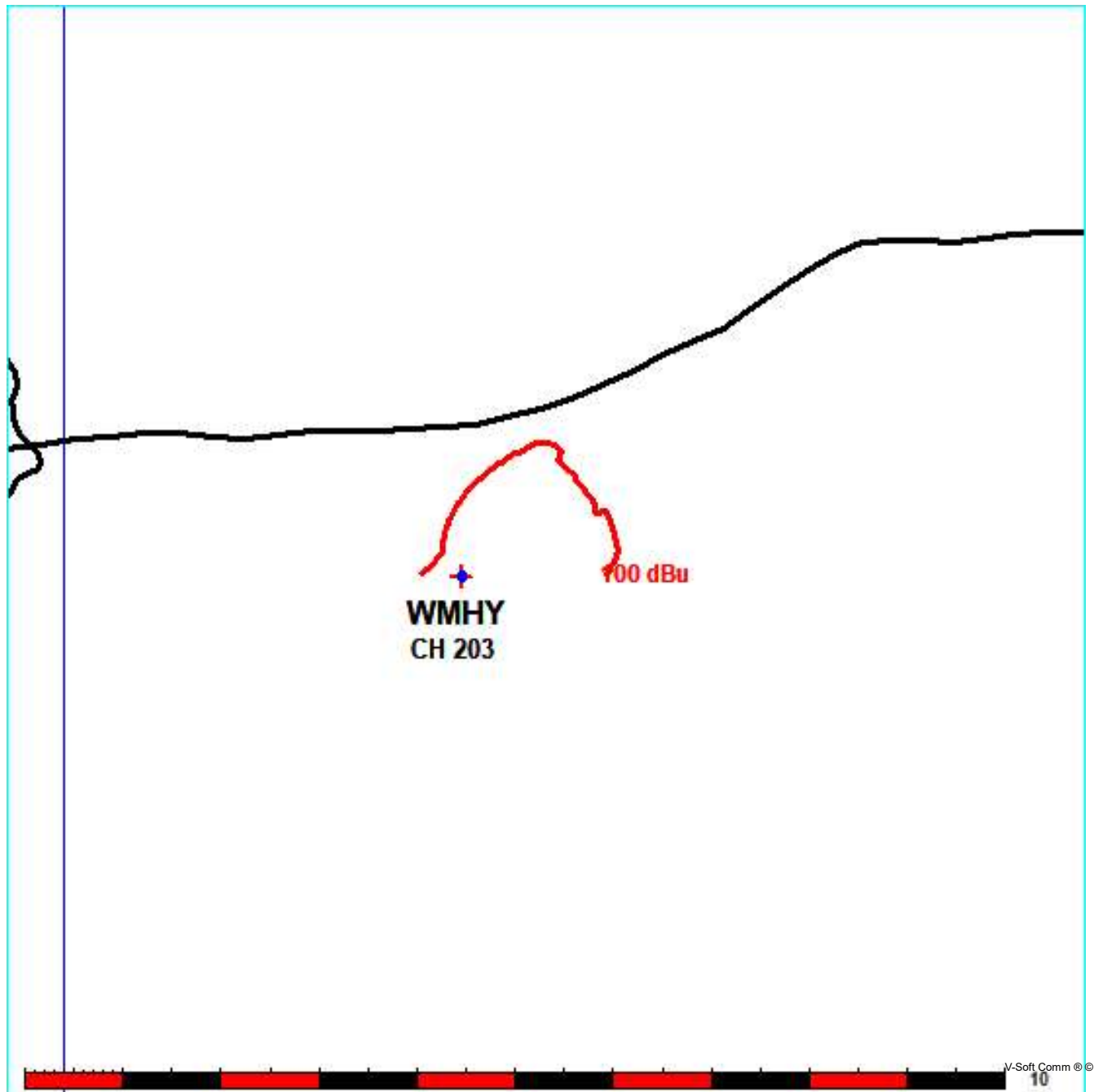
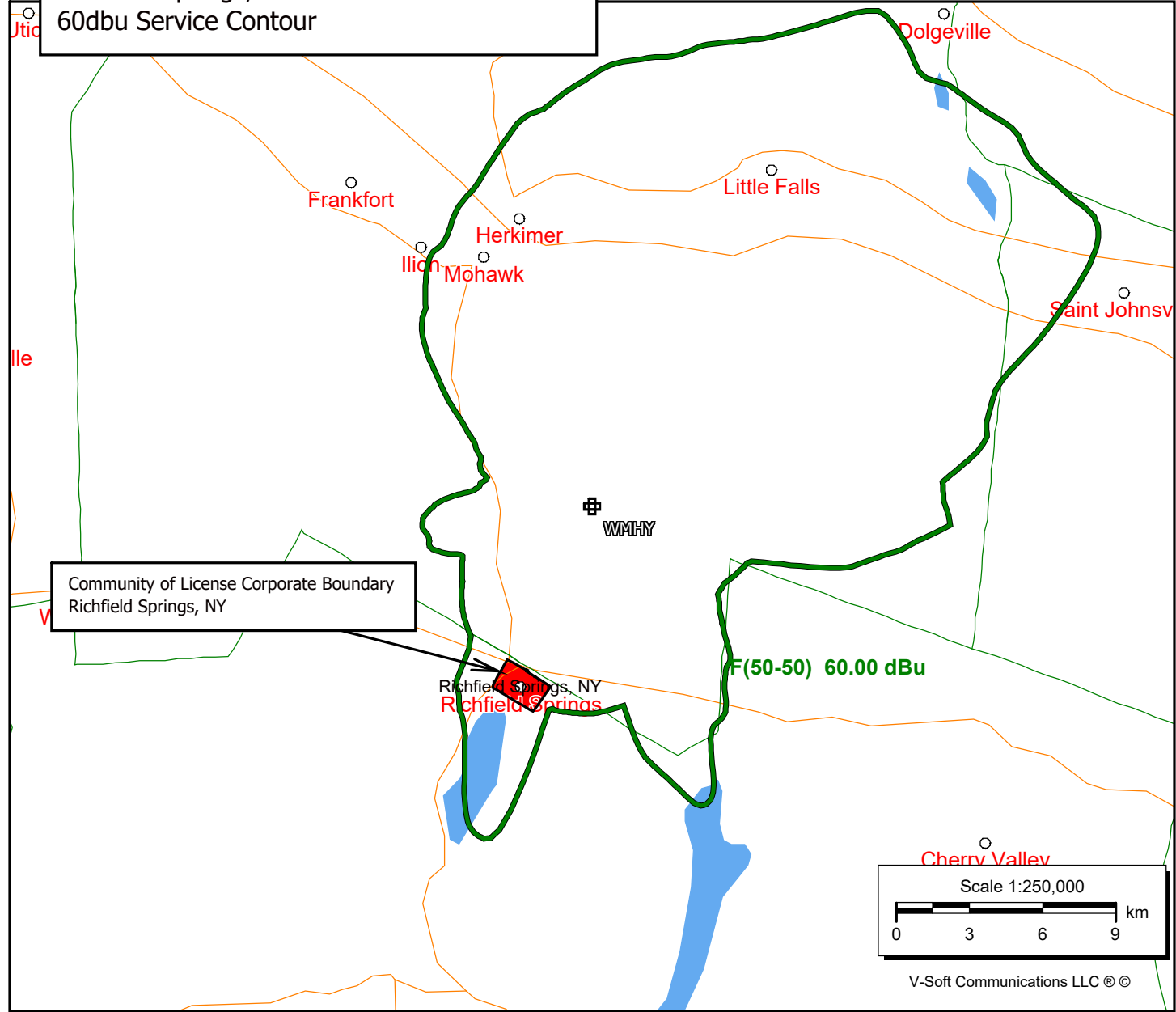


Exhibit 3
Community of License Coverage
Note: 100% of the Area and Population of
Richfield Springs, NY are contained within the
60dbu Service Contour

WMHY
BLED20130215AAK
Latitude: 42-55-11.20 N
Longitude: 074-57-00.50 W
ERP: 0.61 kW
Channel: 204
Frequency: 88.7 MHz
AMSL Height: 505.0 m
Elevation: 488.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None



Compliance with International Requirements

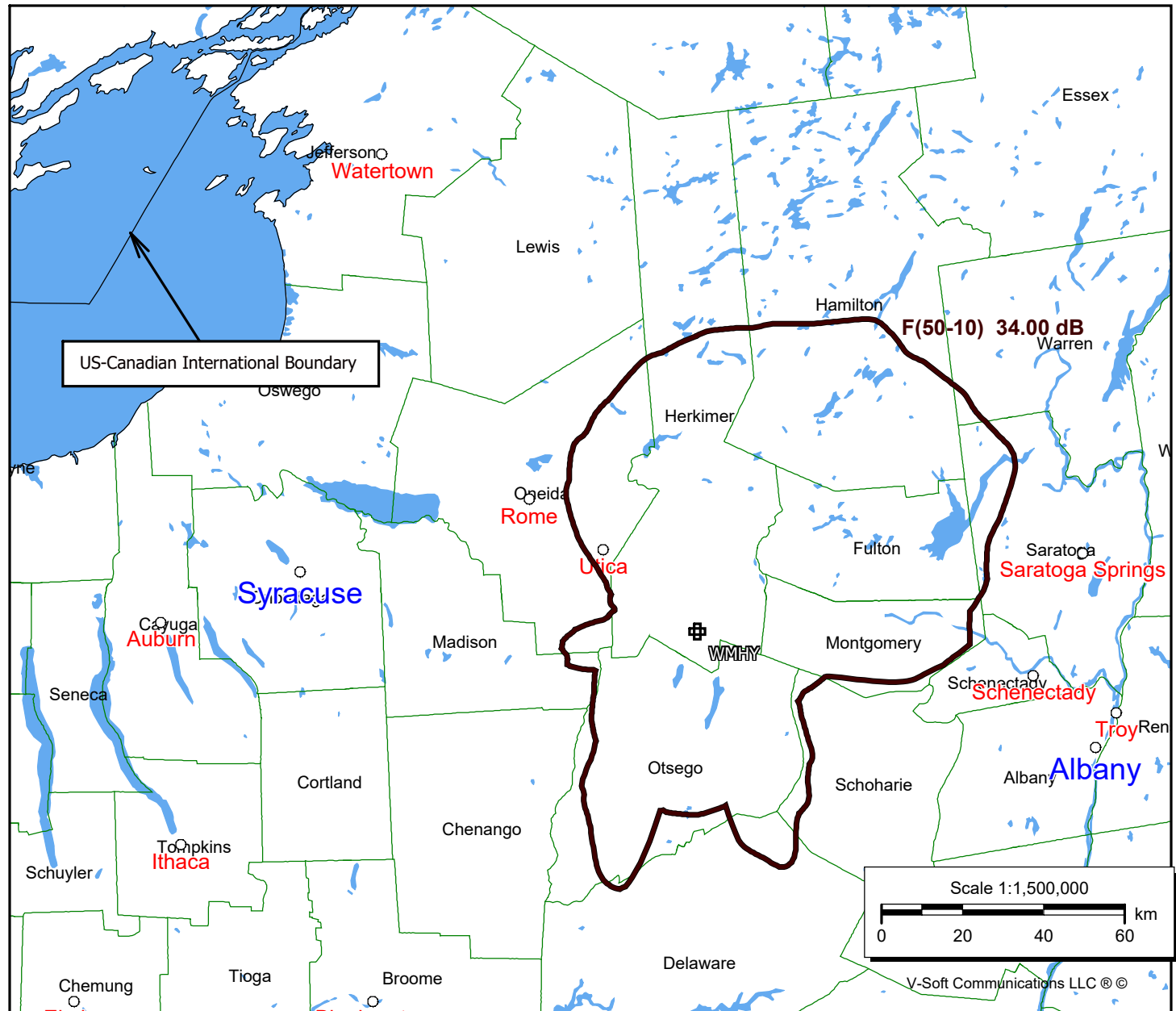
The proposed FM translator is located approximately 170km from the Canadian border. Mars Hill Broadcasting has included the attached map (see Exhibit 3-A) to show that the 34dBu interfering contour of the proposed facility at no point extends beyond the Canadian border.

Therefore, the proposed facility will not cause interference to any existing or proposed Canadian facilities.

Exhibit 4-A
US - Canadian International Compliance

WMHY

BLED20130215AAK
Latitude: 42-55-11.20 N
Longitude: 074-57-00.50 W
ERP: 0.61 kW
Channel: 203
Frequency: 88.5 MHz
AMSL Height: 505.0 m
Elevation: 488.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None



Radiation Hazard Worksheet

NY Richfield Springs 203A

From FCC 301/340 Worksheet

COR above ground:

17.0 m

ERP:

V 0.614 kW

H 0 kW

Results

9.1% of Controlled Limit

45.5% of Uncontrolled Limit