

**Channel Study**

REFERENCE CH# 223D - 92.5 MHz, Pwr= 0.005 kW DA, HAAT= 96.4 M, COR= 437 M DISPLAY DATES  
42 26 30.2 N. Average Protected F(50-50)= 4.8 km DATA 05-14-22  
76 34 39.0 W. Standard Directional SEARCH 05-14-22

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
223B Rochester	WBEE-FM	LIC	CN NY	318.4 137.8	109.85 BMLH19900220KF	43 10 37.20 77 28 37.90	50.000 152	134.6 284	61.9 Audacy License, LLC	-28.4*	40.3
223D Ithaca	W223BR!	LIC	DCN NY	231.1 51.1	9.69 BLFT20121206AAQ	42 23 13.20 76 40 09.80	0.010 242	663	---Reference--- State University Of New Yo		
223A Conklin	WKGB-FM	LIC	CN NY	121.2 301.7	69.94 BLH20011101AAM	42 06 48.30 75 51 07.70	1.450 206	81.1 586	28.3 Ihm Licenses, LLC	-14.4*	35.3
226B Syracuse	WNTQ	LIC	CN NY	38.7 219.0	72.09 BMLH20000606AAN	42 56 48.20 76 01 26.70	97.000 201	8.6 512	78.9 Radio License Holding Cbc,	56.7	-7.1*
221D Ithaca	W221CW	LIC	DVN NY	6.5 186.5	15.69 0000129623	42 34 55.20 76 33 20.70	0.250	1.1 372	12.9 Wskg Public Telecommunicat	8.0	1.7
224A South Waverly	WENI-FM	LIC	NCN PA	200.5 20.4	48.61 BLH20171121AAU	42 01 55.00 76 47 01.00	1.250 221	45.0 620	29.3 Southern Belle, LLC	2.2	16.7
220A Watkins Glen	WRFI	LIC	CN NY	257.2 77.0	26.35 BLED20110826ADZ	42 23 20.20 76 53 25.80	0.420 -114	1.4 263	8.1 Ithaca Community Radio, In	23.3	18.2
220A Owego	WHVM	LIC	CN NY	161.6 341.7	40.67 BLED20141028ABN	42 05 40.20 76 25 18.70	0.160 128	0.9 501	13.9 Mt. St. Francis Hermitage.	37.7	25.5
226D Elmira	W226BA	LIC	DCN NY	206.9 26.8	38.73 BLFT20180522AAB	42 07 51.30 76 47 24.80	0.250	0.1 611	6.0 Southern Belle, LLC	37.0	31.1
222A Mansfield	WOGA	LIC	NCN PA	215.3 35.0	73.89 BLH20010821AAN	41 53 53.20 77 05 36.80	1.600 196	39.6 668	26.3 Southern Belle, LLC	32.7	45.3
221D Sayre	W221AS	LIC	DHN PA	178.5 358.5	46.43 BLFT19871230TC	42 01 27.20 76 33 46.80	0.008 81	0.2 451	3.7 Bible Lighthouse, Inc.	44.3	41.4
220D Penn Yan	W220CJ	LIC	CN NY	301.1 120.8	48.96 BLFT19990222TD	42 40 05.30 77 05 24.90	0.010 100	0.2 397	6.9 Family Life Ministries, In	46.2	41.5
221B1 Baldwinsville	WOLF-FM	LIC	NCN NY	21.5 201.8	85.06 BLH20171221AFE	43 09 10.20 76 11 33.70	25.000 99	3.6 227	40.6 Foxfur Communications, LLC	74.6	42.7
223D Syracuse	W223CP	LIC	DCN NY	25.9 206.2	76.33 BLFT20170424AAC	43 03 30.20 76 09 58.70	0.250 47	23.8 216	7.1 Wolf Radio, Inc.	45.7	45.7
220D Corning	WCEB	LIC	HN NY	229.5 49.1	54.91 BLED1249	42 07 10.20 77 05 00.80	0.015 123	0.3 542	6.0 Corning Community College	53.0	46.3
221D Binghamton	W221EJ	APP	DCN NY	129.5 309.9	66.75 0000173824	42 03 29.30 75 57 12.70	0.250	0.5 652	14.5 Townsquare License, LLC	63.6	48.7
221D Binghamton	W221EJ	CP	DCN NY	129.5 309.9	66.75 BNFFT20180502AAM	42 03 29.30 75 57 12.70	0.250	0.5 652	14.5 Townsquare License, LLC	63.6	48.7

Terrain database is NGDC 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= East Zone, 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.

### **Compliance with C.F.R. 74.1204**

The proposed FM Translator operation on channel 223D is located within the protected 54dBu contour of third adjacent channel station WNTQ, channel 226B, Syracuse, NY. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for W223BR.P:	5 watts
The proposed COR for W223BR.P:	10 meters
WNTQ F(50/50) contour at proposed site:	57.0dBu
The F(50/10) contour of proposed W223BR.P:	97.0dBu

The predicted distance to the 97.0dbu interfering contour is 221.5 meters. Taking into account the vertical elevation pattern of the Nicom BKG77 single bay antenna and the height above ground of 10M, it has been determined that the interfering contour of 97.0dbu extends 221.5m in all directions.

As can be seen in Exhibit 1–A2, the proposed antenna will be located at a distance greater than 221.5m from any potentially occupied structure. As seen in Exhibit 1-A2, the nearest potentially occupied structure is located at a distance of 259m from the proposed transmitter location.

Therefore, State University of New York respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

EXHIBIT 1 - A1  
74.1204(d) Showing  
W223BR  
Ithaca, NY

ERP (kw): 0.005  
Height of Antenna Above Ground (m): 10  
Translator's IX Contour: 97  
Antenna Type: Nic BKG77-1

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.0050	221.5568	10.000
5	0.999	0.0050	221.3352	-9.291
10	0.982	0.0048	217.5687	-27.780
15	0.954	0.0046	211.3651	-44.705
20	0.918	0.0042	203.3891	-59.563
25	0.872	0.0038	193.1975	-71.649
30	0.818	0.0033	181.1226	-80.561
35	0.758	0.0029	167.9400	-86.326
40	0.691	0.0024	153.0957	-88.408
45	0.616	0.0019	136.4790	-86.505
50	0.538	0.0014	119.1975	-81.311
55	0.465	0.0011	103.0239	-74.392
60	0.391	0.0008	86.6287	-65.023
65	0.313	0.0005	69.3473	-52.850
70	0.239	0.0003	52.9521	-39.759
75	0.176	0.0002	38.9940	-27.665
80	0.129	0.0001	28.5808	-18.147
85	0.103	0.0001	22.8203	-12.734
90	0.104	0.0001	23.0419	-13.042

# W223BR Proposed

**Legend**

-  Line Measure
-  W223BR Proposed

Yellow Pin Marker:  
42-26-30.2 N 76-34-39.0 W NAD83  
Red Line Marker: 259m distance

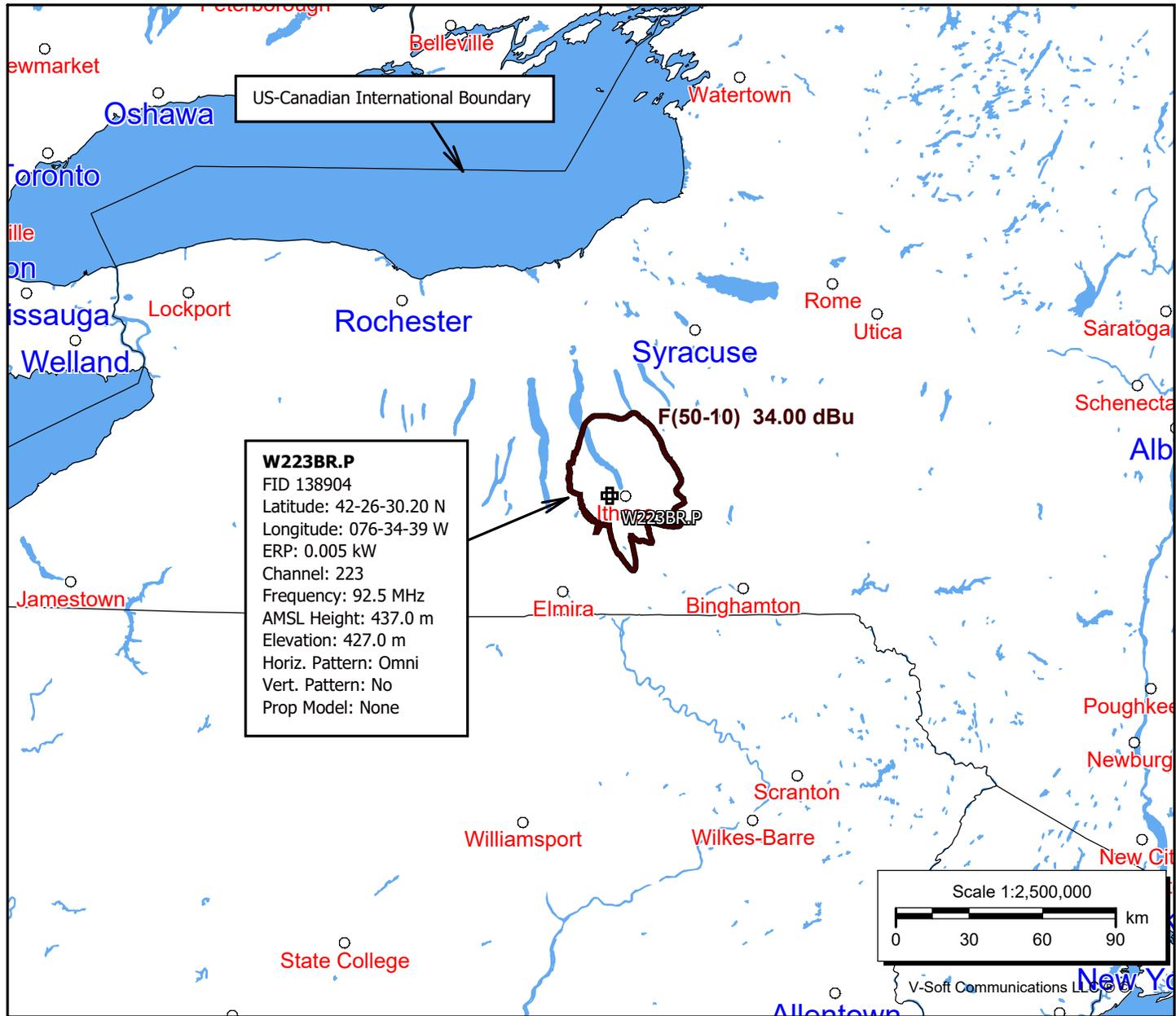
W223BR Proposed

### **Compliance with International Requirements**

The proposed FM translator is located approximately 133km from the Canadian border. The attached map (see Exhibit 2-A) shows 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 2-A  
International Compliance



### **RF Radiation Compliance**

According to 47 C.F.R. 1.1307(b)(1) Table 1, any “Part 74 – Subpart L” facility with an ERP greater than 100 watts, is subject to routine environmental evaluation.

Since the facility proposed in this application will operate with an ERP of less than 100 watts, it is “categorically excluded from making such studies or preparing an EA” [1.1307(b)(1)]

State University of New York will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.