

Channel Study

REFERENCE CH# 267D - 101.3 MHz, Pwr= 0.01 kW DA, HAAT= 153.4 M, COR= 653 M DISPLAY DATES
 42 25 27.0 N. Average Protected F(50-50)= 7.2 km DATA 04-11-13
 75 02 33.0 W. Standard Directional SEARCH 04-16-13

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
270B Cherry Valley	WJIV	LIC	NCX NY	34.6	49.96	42 47 36.0	11.500	4.3	54.6	45.2	-4.7*<
				214.9	BMLH20040901ABU	74 41 41.0	312	711	Christian Broadcasting Sys		
265A Sidney	WCDO-FM	LIC	CN NY	241.4	30.50	42 17 33.0	1.900	2.5	31.1	23.7	-0.7*<
				61.2	BLH19930226KC	75 22 03.0	176	623	Cdo Broadcasting, Inc.		
267D Sherburne	W267AT	LIC	C NY	298.3	36.19	42 34 40.0	0.008	28.2	8.4	-0.3	-0.1
				118.1	BLFT20070802AAA	75 25 51.0	228	670	Educational Media Foundati		
267B Scranton	WGGY	LIC	CX PA	208.0	125.24	41 25 38.0	7.000	111.9	58.3	12.9	63.0
				27.5	BLH20031124AOM	75 44 53.0	365	710	Entercom Wilkes-barre Scra		
267A Boonville	WBRV-FM	LIC	CX NY	347.8	116.40	43 26 52.0	4.700	91.0	32.4	19.0	61.9
				167.6	BLH20100324AAT	75 20 50.0	114	502	The Flack Broadcasting Gro		
266A Fort Plain	WBUG-FM	LIC	CN NY	22.5	54.73	42 52 44.0	1.250	32.1	21.6	22.1	32.0
				202.7	BLH19910312KD	74 47 07.0	219	584	Roser Communications Netwo		
268B Poughkeepsie	WPDH	LIC	CN NY	131.9	116.73	41 43 09.0	4.400	79.0	66.2	35.6	46.5
				312.6	BLH198611110KF	73 59 47.0	469	580	Cumulus Licensing Llc		
267A Stillwater	WJKE	LIC	CN NY	59.1	129.03	43 00 42.0	2.900	82.7	28.2	45.9	97.9
				240.0	BLH19950309KA	73 41 01.0	143	235	Empire Broadcasting Corpor		
264A Utica	WUTQ-FM	LIC	C NY	349.6	69.28	43 02 15.0	1.600	1.7	17.7	61.3	51.4
				169.5	BMLH20120105ABZ	75 11 45.0	191	486	Roser Communications Netwo		
269A Johnson City	WLTB	LIC	CX NY	241.4	84.91	42 03 22.0	0.580	1.5	29.9	79.1	54.9
				60.8	BLH20070515AJQ	75 56 39.0	312	709	Gm Broadcasting, Inc.		
268A Homer	WXHC	LIC	CN NY	287.5	99.30	42 41 12.0	1.300	33.0	22.2	58.2	65.6
				106.7	BLH19940912KB	76 11 54.0	151	596	Eves Broadcasting, Inc.		
266D Marathon	629658	APP	C NY	270.6	82.48	42 25 37.0	0.010	6.9	4.9	67.9	66.6
				89.9	BNPFT20030310BEC	76 02 41.0	50	472	State University Of New Yo		

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding
 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 protected contour.
 < = Contour Overlap

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 54dBu contour of third adjacent channel station WJIV, channel 270B, Cherry Valley, 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 W267AT.P:	10 watts
The proposed COR for W267AT.P:	40 meters
WJIV F(50/50) contour at proposed site:	56.3dBu
The F(50/10) contour of proposed W256AT.P:	96.3dbu

The predicted distance to the 96.3dbu interfering contour is 339.6 meters. Taking into account the pattern of the Scala CA2-CP single bay antenna, it has been determined that the interfering contour of 96.3dbu does not extend to any regularly occupied structures.

As can be seen in Exhibit 13–A2, there are no regularly occupied structures at the base of the tower and there are no structures within the interfering contour.

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

EXHIBIT 13 - A1
 74.1204(d) Showing
 W267AT
 Sherbourne, NY

ERP (kw): 0.01
 Height of Antenna above Ground (m): 40
 Translator's IX Contour: 96.3
 Antenna Type: Scala CA2-CP

<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	0.0100	339.6253	40.000
5	0.990	0.0098	336.2290	10.696
10	0.978	0.0096	332.1535	-17.678
15	0.957	0.0092	325.0214	-44.122
20	0.915	0.0084	310.7571	-66.285
25	0.865	0.0075	293.7759	-84.155
30	0.808	0.0065	274.4172	-97.209
35	0.745	0.0056	253.0208	-105.127
40	0.675	0.0046	229.2471	-107.357
45	0.595	0.0035	202.0770	-102.890
50	0.510	0.0026	173.2089	-92.686
55	0.430	0.0018	146.0389	-79.628
60	0.345	0.0012	117.1707	-61.473
65	0.265	0.0007	90.0007	-41.568
70	0.190	0.0004	64.5288	-20.637
75	0.125	0.0002	42.4532	-1.007
80	0.075	0.0001	25.4719	14.915
85	0.055	0.0000	18.6794	21.392
90	0.050	0.0000	16.9813	23.019

Exhibit 13-A2



Google earth



NAD27

42 25' 27" N

75 02' 33" W

Yellow Marker: 340M at 300 degrees true North

Red Contour: 96.3dbu(F50-10)

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60dBu contour of second adjacent channel station WCDO, channel 265A, Sidney, 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 W267AT.P:	10 watts
The proposed COR for W267AT.P:	40 meters
WCDO F(50/50) contour at proposed site:	60.3dBu
The F(50/10) contour of proposed W256AT.P:	100.3dbu

The predicted distance to the 100.3dbu interfering contour is 213.3 meters. Taking into account the pattern of the Scala CA2-CP single bay antenna, it has been determined that the interfering contour of 100.3dbu does not extend to any regularly occupied structures.

As can be seen in Exhibit 13–A2, there are no regularly occupied structures at the base of the tower and there are no structures within the interfering contour of 100.3dbu, which is 127.3M less than the interfering contour shown in Exhibit 13-A2.

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

EXHIBIT 13 - A1
74.1204(d) Showing
W267AT
Sherbourne, NY

ERP (kw): 0.01
Height of Antenna above Ground (m): 40
Translator's IX Contour: 100.3
Antenna Type: Scala CA2-CP

<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	0.0100	214.2891	40.000
5	0.990	0.0098	212.1462	21.510
10	0.978	0.0096	209.5747	3.608
15	0.957	0.0092	205.0746	-13.077
20	0.915	0.0084	196.0745	-27.061
25	0.865	0.0075	185.3600	-38.337
30	0.808	0.0065	173.1456	-46.573
35	0.745	0.0056	159.6453	-51.569
40	0.675	0.0046	144.6451	-52.976
45	0.595	0.0035	127.5020	-50.158
50	0.510	0.0026	109.2874	-43.719
55	0.430	0.0018	92.1443	-35.480
60	0.345	0.0012	73.9297	-24.025
65	0.265	0.0007	56.7866	-11.466
70	0.190	0.0004	40.7149	1.740
75	0.125	0.0002	26.7861	14.127
80	0.075	0.0001	16.0717	24.172
85	0.055	0.0000	11.7859	28.259
90	0.050	0.0000	10.7145	29.286