

250-Mile Window Application

Minor Mod of Application

BMPFT- 20160129AEK

Facility ID No: 140439

This exhibit is for minor modification of translator permit for W293CW Facility ID No. 140439, BMPFT- 20160129AEK, which specifies changes of location of approximately 133 miles, to channel 269, and of antenna location, elevation, type and model to become fill in for AM station WHEN, Facility ID No.: 7080, Syracuse, New York.

Antenna Location

The proposed antenna is to be mounted on an existing communications rooftop, same as W42EB-D, utilizing the location of former booster station WSYR-FM2 at 76 meters above ground. A directional antenna is proposed, the pattern is given in **Figure 0**. Below as **Figure 1** is an overlap and spacing study from which it can be determined that this proposal is within the protected contour of **second** adjacent channel full-power station WZUN, and translator station W267AL.

73.1204 Compliance

We will demonstrate that a lack of population and/or other factors allow this proposal to be compliant with 74.1204. The process commonly called "Living Way", allows for the use of D/U Analysis, also known as "signal strength ratio methodology" to be utilized to demonstrate compliance. In this instant case the facility to be protected is on a second or third adjacent channel and is to be afforded protection from signals 40 dB stronger than the protected facility presents near the proposed translator antenna location.

Concerning WZUN; In **Figure 2** a map showing that the predicted 74.2 dBu signal contour of the protected station falls 500 meters beyond the proposed translator antenna location is given. This proposal can only cause predicted interference to the protected facility by having a signal exceeding 114.2 dBu (74.2 + 40) in a habitable/populated area. Utilizing the line of sight equation considering the proposed antenna vertical pattern as shown in **Figure 3**, it has been determined that a 114.2 dBu signal developed by 50 watts, as proposed, will not reach habitable areas. With examination of the image in **Figure 4** it can be determined that no habitable space extends into the confines of the interference signal level contour area.

Concerning W267AL; In **Figure 2** a map showing that the predicted 82.2 dBu signal contour of the protected station falls 500 meters beyond the proposed translator antenna location is given. As this is a signal of greater value than that of WZUN, protection of the stronger W267AL signal is assured by the protection of the weaker WZUN signal.

Thus the provisions of the rules section concerning prohibited overlap will not apply as it has been demonstrated that no actual interference will occur due to a lack of population and other factors as applied in this instant proposal.

Fill-in and Minor Change Status

This proposal is to serve as a fill-in translator for station WHEN, Facility ID No.: 7080, Syracuse, New York. The map of **Figure 5** demonstrates that the proposed 60 dBu contour is contained within the 2 mV/M signal and a 25 mile radius of the WHEN facility. It can also be seen that the proposed and permitted facilities are within the allowed 250 mile distance.

RF Fields Statement

Due to the complexity of the surrounding RF environment, applicant will take power density measurements prior to filing of an application for license, demonstrating compliance with 73 CFR 1.1306.

Figure 1. Overlap and Spacing Study

WHEN W229CK Clear Channel Broadcasting Licenses, Inc.											
REFERENCE	CH#	269D - 101.7 MHz, Pwr= 0.05 kW DA, HAAT= 0.0 M, Average Protected F(50-50)= 4.71 km Standard Directional						COR= 196 M			DISPLAY DATES
43 03 01.0 N.									DATA	07-28-16	
76 09 02.0 W.									SEARCH	07-28-16	
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* (Overlap in km)	
269A	W229CK	LIC_CX	13.0	63.58	43 36 28.0	5.000	95.7	35.9	-33.7*	22.5	
	Pulaski	NY	193.1	BMLED20070319ACF	75 58 23.0	109	383	Educational Media Foundati			
271A	W2JUN	LIC_CN	297.8	12.15	43 06 04.0	6.000	2.8	28.4	7.8	-16.3*	
	Phoenix	NY	117.7	BLH19990819KC	76 16 58.0	81	234	Galaxy Syracuse Licensee L			
269A	WFLK	LIC_CN	253.4	73.11	42 51 34.0	5.400	83.4	26.4	-13.8*	35.3	
	Geneva	NY	72.8	BMLH19960118KB	77 00 29.0	38	239	Rsk Communications, Inc.			
Proposed to Canada as B1 on 901109-Accepted by Canada 901226											
267D	W267AL	LIC_CN	304.9	1.56	43 03 30.0	0.108	0.7	5.7	-0.7	-4.2*	
	Syracuse	NY	124.9	BMLFT20101122AJU	76 09 59.0	64	239	Educational Media Foundati			
268A	WXHC	LIC_CX	185.5	40.58	42 41 12.0	1.300	34.1	22.8	1.9	11.2	
	Homer	NY	5.5	BMLH20140528AHC	76 11 54.0	151	596	Eves Broadcasting, Inc.			
268D	W268AE	LIC_CN	87.3	39.34	43 03 57.0	0.075	14.1	10.1	20.8	23.0	
	Wampsville	NY	267.6	BLFT19991001ACE	75 40 05.0	50	277	Cram Communications, LLC			
269A	WLTB	LIC_CX	171.2	111.72	42 03 22.0	0.580	83.0	29.5	24.0	67.3	
	Johnson City	NY	351.4	BLH20070515AJQ	75 56 39.0	312	709	Gm Broadcasting, Inc.			
266D	W266BE	LIC_CN	248.6	36.14	42 55 53.0	0.027	0.4	4.0	32.1	31.8	
	Auburn	NY	68.4	BLFT20140903AHV	76 33 47.0	30	248	Calvary Chapel Of The Fing			
270B	WJIV	LIC_NCX	103.1	122.24	42 47 36.0	11.500	70.7	60.6	47.4	53.3	
	Cherry Valley	NY	284.0	BMLH20040901ABU	74 41 41.0	312	711	Christian Broadcasting Sys			
267A	WBRV-FM	LIC_CX	55.5	78.78	43 26 52.0	4.700	2.6	26.9	72.7	51.8	
	Boonville	NY	236.1	BLH20100324AAT	75 20 50.0	114	502	The Flack Broadcasting Gro			
269D	W269AW	LIC_DHN	201.2	75.59	42 24 56.0	0.009	8.9	2.8	62.4	59.0	
	Ithaca	NY	20.9	BLFT19870213TC	76 29 00.0	-49	306	Friends of Wmhr - Ithaca			
TRANSLATOR FOR WMR, SYRACUSE, NY											
267B	WRMM-FM	LIC_CX	276.7	124.64	43 10 13.0	27.000	5.9	65.2	115.9	59.2	
	Rochester	NY	95.6	BMLH20060130ASF	77 40 23.0	195	338	Stephens Media Group - Roc			
266D	W266CL	CP_CN	172.9	69.78	42 25 37.0	0.013	0.3	3.4	64.8	65.9	
	Marathon	NY	352.9	BNPFT20130829ABN	76 02 41.0	50	472	State University Of New Yo			
271D	W271CD	LIC_DV	199.7	73.25	42 25 45.0	0.010	0.2	3.5	68.7	69.3	
	East Ithaca	NY	19.5	BLFT20150821AAD	76 27 04.0		394	Calvary Chapel Of The Fing			
267D	W267AT	LIC_CN	131.6	78.86	42 34 40.0	0.008	0.2	8.8	74.4	69.7	
	Sherburne	NY	312.1	BLFT20070802AAA	75 25 51.0	228	670	Blount Communications, Inc			
266D	W266CI	CP_DC	202.5	75.36	42 25 24.0	0.045	0.4	4.3	70.6	70.6	
	Ithaca	NY	22.3	BNPFT20130814ABX	76 30 08.0	-80	275	Edward L Farmer			
272A	WVOR	LIC_CN	258.1	97.88	42 51 47.0	3.400	2.5	26.7	92.0	70.9	
	Canandaigua	NY	77.3	BLH19910726KC	77 19 22.0	86	358	Citicasters Licenses, Inc.			
Proposed to Canada as B1 on 910211-Specially negotiated short spaced allot- ment Ltd to 3.4Kw erp & 100m Ha at or equivalent towards Belleville ON-Accep- ted by Canada 910415											
270D	W270BY	LIC_DC	220.3	87.94	42 26 44.0	0.250	4.4	3.2	79.2	78.7	
	Watkins Glen	NY	39.9	BLFT20091125ACW	76 50 38.0	88	444	Fingerlakes Radio Group, I			
267D	W267BQ	LIC_DV	188.6	90.88	42 14 29.0	0.250	0.9	8.4	85.4	82.1	
	Richford	NY	8.5	BLFT20131223AGY	76 19 00.0	107	498	Radigan Broadcasting Group			
270AA	CFRCFM	ON	348.1	134.40	44 14 00.0	6.000	46.3	38.0	86.6	93.2	
	Kingston		167.8		76 30 00.0	100	189				
SPECIAL NEGOTIATED SHORT-SPACED ALLOCATION.											
271A	WAVR	LIC_CN	195.7	113.85	42 03 48.0	4.100	2.3	23.0	107.2	90.4	
	Waverly	NY	15.5	BMLH19990211KC	76 31 28.0	122	500	Wats Broadcasting, Inc.			
From Channel 272A per MM Docket 91-339.											
269D	W269BK	LIC_CN	209.5	113.92	42 09 24.0	0.099	18.5	5.6	91.1	94.6	
	Horseheads	NY	29.1	BLFT20060905AAX	76 49 54.0	-95	292	Europa Communications, Inc			
266A	WBUG-FM	LIC_CN	99.3	113.00	42 52 44.0	1.250	1.8	21.1	107.1	91.5	
	Fort Plain	NY	280.2	BLH19910312KD	74 47 07.0	219	584	Roser Communications Netwo			
Class B1 with respect to Canada											

Figure 2. Contour Map

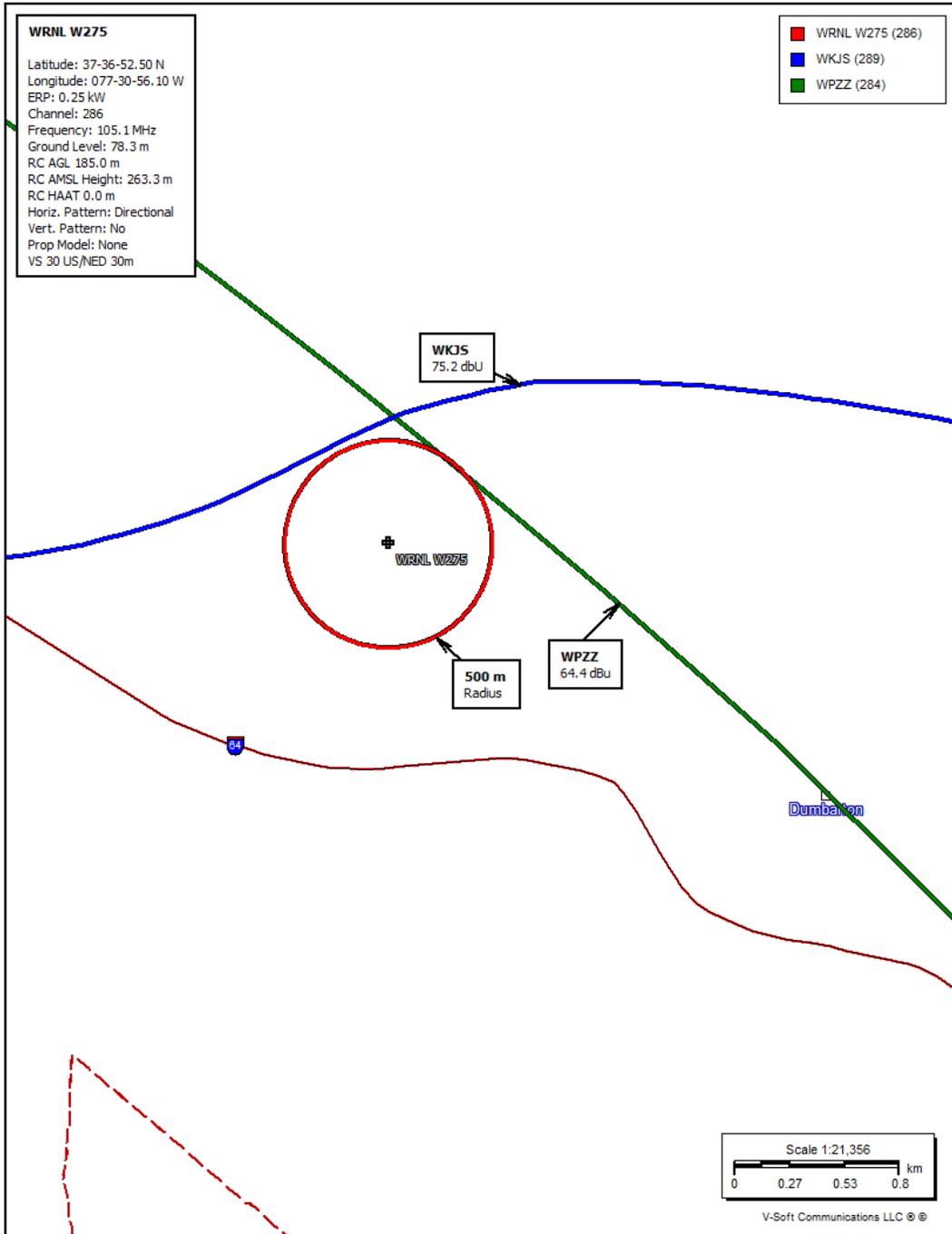


Figure 3. Signal Level at or Near Ground Level

<p>Proposed Antenna: Scala CL-FM V Pol</p> <p>Proposed Power: 0.05 kW</p> <p>Antenna Height AGL: 76 meters</p> <p>Interference Contour: 114.2 dBu f(50:10)</p> <p>Artificial Rcv Antenna Height: 2 meters</p> <p>Distance (Free Space) Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)}) * 1000$</p> <p>Field Strength (dBu) Equation: $= 106.92 - (20 * (\text{LOG}_{10}[\text{DistMeters} / 1000])) + [\text{ERP in dBk}]$</p>								
Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interf	rom Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.050	-13.01	96.71 m	infinite	---	infinite	---
-5°	0.980	0.048	-13.19	94.78 m	849.05 m	95.16 dBu	872.00 m	94.92 dBu
-10°	0.950	0.045	-13.46	91.88 m	426.15 m	100.87 dBu	437.67 m	100.64 dBu
-15°	0.895	0.040	-13.97	86.56 m	285.91 m	103.82 dBu	293.64 m	103.59 dBu
-20°	0.820	0.034	-14.73	79.30 m	216.36 m	105.48 dBu	222.21 m	105.25 dBu
-25°	0.735	0.027	-15.68	71.08 m	175.10 m	106.37 dBu	179.83 m	106.14 dBu
-30°	0.645	0.021	-16.82	62.38 m	148.00 m	106.70 dBu	152.00 m	106.46 dBu
-35°	0.562	0.016	-18.02	54.35 m	129.02 m	106.69 dBu	132.50 m	106.46 dBu
-40°	0.470	0.011	-19.57	45.46 m	115.12 m	106.13 dBu	118.24 m	105.90 dBu
-45°	0.360	0.006	-21.88	34.82 m	104.65 m	104.64 dBu	107.48 m	104.41 dBu
-50°	0.250	0.003	-25.05	24.18 m	96.60 m	102.17 dBu	99.21 m	101.94 dBu
-55°	0.155	0.001	-29.20	14.99 m	90.34 m	98.60 dBu	92.78 m	98.37 dBu
-60°	0.085	0.000	-34.42	8.22 m	85.45 m	93.86 dBu	87.76 m	93.63 dBu
-65°	0.045	0.000	-39.95	4.35 m	81.65 m	88.73 dBu	83.86 m	88.50 dBu
-70°	0.020	0.000	-46.99	1.93 m	78.75 m	82.01 dBu	80.88 m	81.77 dBu
-75°	0.010	0.000	-53.01	0.97 m	76.61 m	76.22 dBu	78.68 m	75.99 dBu
-80°	0.010	0.000	-53.01	0.97 m	75.14 m	76.39 dBu	77.17 m	76.16 dBu
-85°	0.010	0.000	-53.01	0.97 m	74.28 m	76.49 dBu	76.29 m	76.26 dBu
-90°	0.010	0.000	-53.01	0.97 m	74.00 m	76.53 dBu	76.00 m	76.29 dBu

Figure 4. Image Near Proposed Support Tower



Figure 5. Fill-in and Minor Change Distance Map

