

**Comprehensive Engineering Exhibit
Minor Modification of BMPFT-20140725AAZ
Facility ID No. 150854, W277CL
June 2015**

This exhibit is for a Minor Modification of translator W277CL, permit BMPFT-20140725AAZ. The modification is seeking to share the antenna of full power station WRBV at the permitted location. An operating power of 190 watts is requested.

The proposed shared WRBV antenna is to be mounted on ASR 1019743 at 87 meters above ground. Below as **Figure 1** is an overlap and spacing study from which it can be determined that this proposal is compliant with section 74.1204.

Compliance with contour and distance for this translator to serve as fill-in for standard band WIBB Facility ID 41989, Macon, GA is demonstrated in Figure 2.

RF Radiation Statement

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed antenna system is an ERI LPX-3E, 3- element "Roto-Tiller" antenna mounted 87 meters above ground. As this element type is available in the FM Model program, it has been set to calculate values for this type of antenna element array operated with a combined effective radiated power of 0.25 Kilowatts in vertical and horizontal. At 2 meters above the surface, at 42.8 meters from the base of the tower, this proposal will contribute worst case, 4.9 microwatts per square centimeter, or 0.49 percent of the allowable ANSI limit for controlled exposure, and 2.45 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1. Overlap and Spacing Study

Overlap and Spacing Study												
W277CL Diplex into WRBV Amfm Radio Licenses, L.L.C. CH# 277D - 103.3 MHz, Pwr= 0.19 kW, HAAT= 108.0 M, COR= 212 M Average Protected F(50-50)= 12.49 km Omni-directional												
REFERENCE	CH#	277D	-	103.3 MHz	Pwr= 0.19 kW	HAAT= 108.0 M	COR= 212 M	DISPLAY DATES				
32 38 19.0 N.								DATA	06-05-15			
83 38 19.0 W.								SEARCH	06-05-15			
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*	
CITY		STATE		--	FILE #	LANG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)		
277D	W277CL	CP	DC	332.8	0.01	32 38 19.5	0.250	33.1	9.8	-45.0°*	-50.9°*	
Sofkee		GA		152.8	BMFF720140725AAZ	83 38 33.3		200	Clear	Channel	Broadcasting	
277C0	WVEE	LIC	CA	332.9	140.03	33 45 33.0	100.000	175.5	74.6	-47.4°*	24.4	
Atlanta		GA		152.5	BMLH20080222ADZ	84 20 05.0	310	594	Cbs	Radio	East Inc.	
275D	W275CC	CP	CA	357.6	23.67	32 51 07.0	0.019	0.3	6.1	10.6	16.6	
Macon		GA		177.6	BNFF720130822AGD	83 39 11.0	70	189	Robbins	Partners, Llc		
280C3	WQXZ	LIC	CA	178.8	52.25	32 10 03.0	10.500	3.9	39.1	36.0	12.2	
Hawkinsville		GA		358.8	BLH19960122KE	83 37 51.0	151	248	Georgia	Eagle Media , Inc.		
From Channel 280A				Per D92-112								
279A	WVKX	LIC	CA	57.8	50.52	32 52 48.0	6.000	2.5	25.5	35.7	24.1	
Irwinton		GA		238.0	BLH19990315KC	83 11 07.0	100	200	Wilkinson	Broadcasting, Inc		
276A	WDBG	LIC	CA	100.9	66.49	32 31 25.0	6.000	28.0	19.0	25.2	27.5	
Dexter		GA		281.3	BLH20130115ABV	82 56 51.0	60	136	Radiojones, Llc			
275C	WVRK	LIC	CA	252.2	113.57	32 19 15.9	100.000	12.1	83.2	90.6	29.4	
Columbus		GA		71.5	BLH20140115AAE	84 47 28.5	482	600	cc	Licenses, Llc		
277C0	W0GA	LIC	CA	135.8	228.02	31 09 22.0	100.000	172.3	72.6	42.5	110.4	
Waycross		GA		316.7	BMLH20140627ABO	81 58 19.0	303	319	Amfm	Radio Licenses, L.L.C		
278C3	WJAD	LIC	CA	200.1	114.18	31 40 18.0	12.500	58.0	38.7	44.2	57.9	
Leesburg		GA		19.9	BLH19931213KC	84 03 32.0	141	212	Cumulus	Licensing Llc		

Terrain database is USGS 03 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= , 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 restricted contour.
< = Contour Overlap

Figure 2. Contour Map

