

Minor Modification of Permit W247BW; BNPFT - 20130806AAB Facility ID No. 140321

This exhibit is for minor modification of translator permit for W247BW Facility ID No. 140321, BNPFT - 20130806AAB. It specifies a change in primary station, antenna elevation, make and model only.

Antenna Location

The proposed antenna is to be mounted on an existing tower identified by registration number 1018922 at 171 meters above ground. 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 **third** adjacent channel co-owned station WIBB-FM; and that **second** adjacent channel translator W245CG which is permitted to be co-located with this proposal.

73.1204 Complinance

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 in the location of the proposed translator antenna location.

Concerning WIBB-FM; In **Figure 2** a map showing the predicted 63.5 dBu signal contour of the protected facility at the proposed translator antenna location is given. This proposal can only cause predicted interference to the protected facility by having a signal exceeding 103.5 dBu in a habitable/populated area. Utilizing the line of sight equation shown in **Figure 3** which considers the vertical elevation pattern of the proposed antenna, it has been determined that a 103.5 dBu signal developed by 250 watts, as proposed, emitted by the proposed antenna mounted 171 meters above ground, will not reach ground level. With examination of the images in **Figure 4** it can be determined that no habitable space extends above this height within the confines of this contour. 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.

Concerning W245CG; This W247BW facility and the permitted W245CG are to be co-located upon the same tower. The W245CG antenna is permitted for 147 m above ground level, thus no interference in a habitable/populated area could be caused to W245CG by this proposal.

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 Status

This proposal is to serve as a fill-in translator for station WIBB(AM), Facility ID 41989, Macon, GA. The map of Figure 2 demonstrates that the proposed 60 dBu contour is contained within that of the WIBB daytime 2 mV/m contour, and within a 25 mile radius of the WIBB daytime facility.

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 a composite **ERI 100A-4F-HW four (1) element, half-wave spaced**; antenna mounted 171 meters above ground. As this element type is not modeled in any current computer program, for purposes of this analysis the FM Model program has been set to calculate values for a "worst case" type of antenna element array, "Ring Stub", operated with an effective radiated power of 0.25 Kilowatts in the Horizontal and Vertical plane. At 2 meters above the surface, at 150 meters from the base of the tower, this proposal will contribute worst case, 0.02 microwatts per square centimeter, or 0.002 percent of the allowable ANSI limit for controlled exposure, and 0.01 percent of the allowable limit for uncontrolled exposure. This figure is less than 0.10% 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

W247BW With New Elev and Ant 10-16-2014 Cleveland Radio Licenses, LLC CH# 247D - 97.3 MHz, Pwr= 0.25 kW, HAAT= 185.5 M, COR= 304 M Average Protected F(50-50)= 17.88 km Omni-directional										
REFERENCE 32 50 28.0 N. 83 40 17.5 W.									DISPLAY DATES DATA 10-15-14 SEARCH 10-16-14	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PHR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)
247D W247BW Macon	CP _C_	GA		0.0 0.0	0.00 BNPFT20130806AAB	32 50 28.0 83 40 17.5	0.250 180	53.9 298	16.9 Cleveland Radio Licenses,	-71.1* -71.5*
245D W245CG Macon	CP _C_	GA		270.0 90.0	0.01 BNPFT20130820ABH	32 50 28.0 83 40 18.0	0.005 162	0.2 280	6.2 American Family Associatio	-18.0* -7.3*
250C3 WIBB-FM Fort Valley	LIC _CN	GA		194.9 14.9	31.12 BMLH19990112KB	32 34 12.0 83 45 26.0	10.500 152	3.8 271	37.9 Amfm Radio Licenses, L.L.C	9.0 -7.9*
246C WSRV Gainesville	LIC _CY	GA		353.1 173.0	143.51 BLH19980825KB	34 07 32.0 83 51 32.0	100.000 483	129.9 797	87.0 Cox Radio, Inc.	-4.0 30.3
246L1 WLVN-LP Fort Valley	LIC _	GA		198.7 18.6	33.57 BLL20020924AAJ	32 33 16.0 83 47 12.0	0.100 27	153	7.3 Calvary Chapel Heartland,	0.7
247C0 WGEX Bainbridge	LIC _CX	GA		203.9 23.4	204.49 BMLH20110728ADK	31 09 12.0 84 32 38.0	100.000 304	172.7 348	72.9 Cc Licenses, LLC	13.6 74.4
248A WUFF-FM Eastman	LIC _C_	GA		148.2 328.4	80.84 BLH20080304ABL	32 13 18.0 83 13 04.0	4.620 113	41.1 211	26.8 Dodge Broadcasting, Inc.	20.7 25.8
245D W245AN Milledgeville	LIC _C_	GA		56.1 236.3	43.73 BLFT20070514ABA	33 03 35.0 83 16 56.0	0.019 85	0.3 203	5.3 Community Public Radio, In	26.5 37.4
249C3 WMGZ Eatonton	LIC _C_	GA		36.3 216.5	69.52 BLH19991018ABS	33 20 41.0 83 13 41.0	8.500 169	3.9 315	39.6 Southern Stone Broadcastin	47.7 28.8
245A WFVS-FM Reynolds One Step Application	CP _CX	GA		213.7 33.6	57.22 BMPED20140610AAR	32 24 44.0 84 00 38.0	5.300 106	2.5 222	25.3 Bd. Regents, U. Syst.of Ga	36.5 30.9
246C1 WSRV Gainesville	CP _CX	GA		348.1 167.9	147.61 BPH20070118ACV	34 08 34.0 84 00 11.0	100.000 212	95.7 548	64.7 Cox Radio, Inc.	33.8 56.0
244D W244CL Cochran	LIC _C_	GA		148.6 328.8	55.77 BLFT20100406ACX	32 24 43.0 83 21 42.0	0.250 69	1.1 163	11.4 Georgia Eagle Broadcasting	35.7 43.3
247C0 WAEV Savannah	LIC _CX	GA		111.4 292.6	236.24 BLH20020604AAW	32 02 45.0 81 20 27.0	100.000 396	182.0 402	79.0 Capstar Tx LLC	35.8 99.4
248C3 WUMJ Fayetteville	LIC _CX	GA		311.2 130.7	112.35 BLH20130605ABH	33 30 13.0 84 34 58.0	8.500 165	58.7 443	39.7 Roa Licenses, LLC	37.0 47.8
245D W245BT Dublin	LIC _C_	GA		115.3 295.8	78.36 BLFT20110218AAG	32 32 15.0 82 55 01.0	0.250 23	1.1 100	7.1 John M. Dowdy	58.8 70.2
249C1 WMGZ Lexington	CP _CX	GA		25.2 205.5	124.84 BPH20070416ACW	33 51 28.0 83 05 45.0	100.000 154	6.9 338	57.6 Southern Stone Broadcastin	99.8 66.2

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= , Co to 3rd adjacent.
 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.

Figure 2. Contour Map

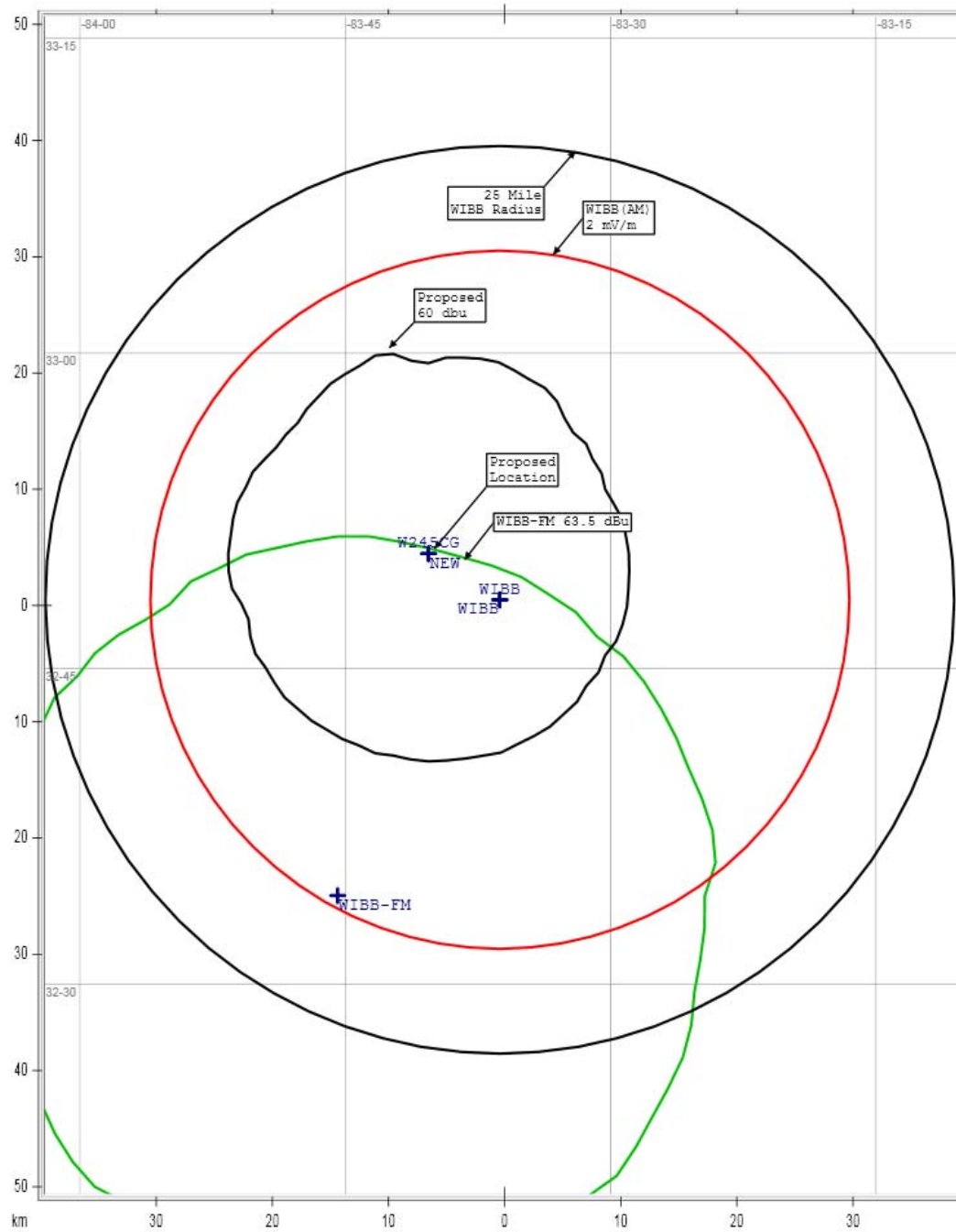


Figure 3. Signal Level at or Near Ground Level

Proposed Antenna: ERI 100A-4F-HW Proposed Power: 0.25 kW Antenna Height AGL: 171 meters Interference Contour: 103.5 dBu Artificial Rcv Antenna Height: 2 meters Distance (Free Space) Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)}) * 1000$ Field Strength (dBu) Equation: $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters} / 1000])) + [\text{ERP in dBk}]$								
<div>Fill in "yellow" cells</div>								
Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interf	from 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	0.250	-6.02	741.26 m	infinite	---	infinite	---
-5°	0.951	0.226	-6.46	704.94 m	1939.06 m	94.71 dBu	1962.00 m	94.61 dBu
-10°	0.841	0.177	-7.52	623.40 m	973.23 m	99.63 dBu	984.75 m	99.53 dBu
-15°	0.615	0.095	-10.24	455.87 m	652.97 m	100.38 dBu	660.69 m	100.28 dBu
-20°	0.391	0.038	-14.18	289.83 m	494.12 m	98.87 dBu	499.97 m	98.76 dBu
-25°	0.178	0.008	-21.01	131.94 m	399.89 m	93.87 dBu	404.62 m	93.77 dBu
-30°	0.004	0.000	-53.98	2.97 m	338.00 m	62.36 dBu	342.00 m	62.26 dBu
-35°	0.117	0.003	-24.66	86.73 m	294.64 m	92.88 dBu	298.13 m	92.78 dBu
-40°	0.182	0.008	-20.82	134.91 m	262.92 m	97.70 dBu	266.03 m	97.60 dBu
-45°	0.200	0.010	-20.00	148.25 m	239.00 m	99.35 dBu	241.83 m	99.25 dBu
-50°	0.184	0.008	-20.72	136.39 m	220.61 m	99.32 dBu	223.22 m	99.22 dBu
-55°	0.150	0.006	-22.50	111.19 m	206.31 m	98.13 dBu	208.75 m	98.03 dBu
-60°	0.110	0.003	-25.19	81.54 m	195.14 m	95.92 dBu	197.45 m	95.82 dBu
-65°	0.072	0.001	-28.87	53.37 m	186.47 m	92.63 dBu	188.68 m	92.53 dBu
-70°	0.042	0.000	-33.56	31.13 m	179.85 m	88.27 dBu	181.97 m	88.16 dBu
-75°	0.021	0.000	-39.58	15.57 m	174.96 m	82.48 dBu	177.03 m	82.38 dBu
-80°	0.008	0.000	-47.96	5.93 m	171.61 m	74.27 dBu	173.64 m	74.17 dBu
-85°	0.002	0.000	-60.00	1.48 m	169.65 m	62.33 dBu	171.65 m	62.23 dBu
-90°	0.001	0.000	-66.02	0.74 m	169.00 m	56.34 dBu	171.00 m	56.24 dBu

Figure 4. Aerial Image of Area Near Proposed Support Tower

