

Minor Modification of Application

BNPFT-20030314CBQ-Facility ID No. 140503

This exhibit is for the Long Form of translator applications BNPFT-20030314CBQ-Facility ID No. 140503.

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The proposed antenna is to be mounted on an existing tower identified by registration number 1033919 at 200 meters above ground, to serve as a fill-in translator for station WIBA-FM, Facility ID 17385, Sauk City, WI. 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 primary station WIBA-FM and second adjacent channel station WTLX. Figure 1a details the proposed directional pattern considered in the overlap and spacing study.

Concerning WIBA-FM; this proposal is not predicted to cause interference in the community of Sauk City, WI – the principal community of WIBA-FM.

Concerning WTLX; 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 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.

In **Figure 2** a map showing the predicted 64.5 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 104.5 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 104.5 dBu signal developed by 105 watts, as proposed, emitted by the proposed antenna mounted 83 meters above ground, will not reach ground level. With examination of the images in **Figure 5** 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.

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 **Scala CL-FM two (2) element; full-wave spaced** antenna mounted 200 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 vertical plane. At 2 meters above the surface, at 12.4 meters from the base of the tower, this proposal will contribute worst case, 0.2 microwatts per square centimeter, or 0.48 percent of the allowable ANSI limit for controlled exposure, and 0.02 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.

CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY	STATE			<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
268B	WIBA-FM	LIC	_CX	0.0	0.00	43 03 21.0	12.000	5.4	65.9	-15.0*	-66.4*
	Sauk City	WI		0.0	BLH20110802AAB	89 32 06.0	309	609	Capstar Tx LLC		
265D	1564276	APP	DV_	0.0	0.00	43 03 21.0	0.250	31.9	9.6	-41.5*	-41.5*
	Madison	WI		0.0	BNPFT20030314CBQ	89 32 06.0		543	Capstar Tx Limited Partner		
265C3	WRCO-FM	LIC	_C_	292.1	77.98	43 18 55.5	8.400	105.9	41.4	-31.6*	23.3
	Richland Center	WI		111.5	BLH20080107ADV	90 25 34.6	170	438	Fruit Broadcasting, LLC		
265A	WQFL	LIC	ZC_	152.1	92.10	42 19 20.0	2.700	83.9	29.1	-9.5	6.9
	Rockford	IL		332.5	BMLED20110421ABV	89 00 41.0	149	396	Educational Media Foundati		
263A	WTLX	LIC	_CX	51.6	14.10	43 08 04.0	6.000	2.0	19.3	-6.6*	-6.0*
	Monona	WI		231.7	BLH20090306ABX	89 23 56.0	55	338	Good Karma Broadcasting, L		
264B	WKKV-FM	LIC	_CX	102.5	124.52	42 48 18.0	50.000	77.9	64.9	25.7	15.8
	Racine	WI		283.5	BMHLH20100809CJO	88 02 54.0	152	386	Clear Channel Broadcasting		
212B1	WJWD	LIC	DEX	47.4	47.56	43 20 40.0	9.900	0.0	0.0	12.0R	35.6M
	Marshall	WI		227.7	BLEDD20030213AAJ	89 06 10.0	95	380	Calvary Radio Network, Inc		
212A	WBCR-FM	LIC	_CN	146.1	73.87	42 30 13.0	0.130	0.0	0.0	10.0R	63.9M
	Beloit	WI		326.4	BLEDD19851108KI	89 01 55.0	18	266	The Board of Trustees/belo		
266C	WIXX	LIC	_CY	38.8	194.66	44 24 35.0	100.000	108.7	74.7	68.6	94.1
	Green Bay	WI		219.8	BMLH19811005AE	88 00 05.0	329	557	Midwest Communications, In		
262B1	WCCI	LIC	NCN	205.9	114.23	42 07 47.0	9.600	3.6	41.9	98.2	71.7
	Savanna	IL		25.5	BLH19901204KG	90 08 24.0	157	374	Carroll County Communicati		

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.
« = Station meets FCC minimum distance spacing for its class.

Figure 1a. Antenna Pattern

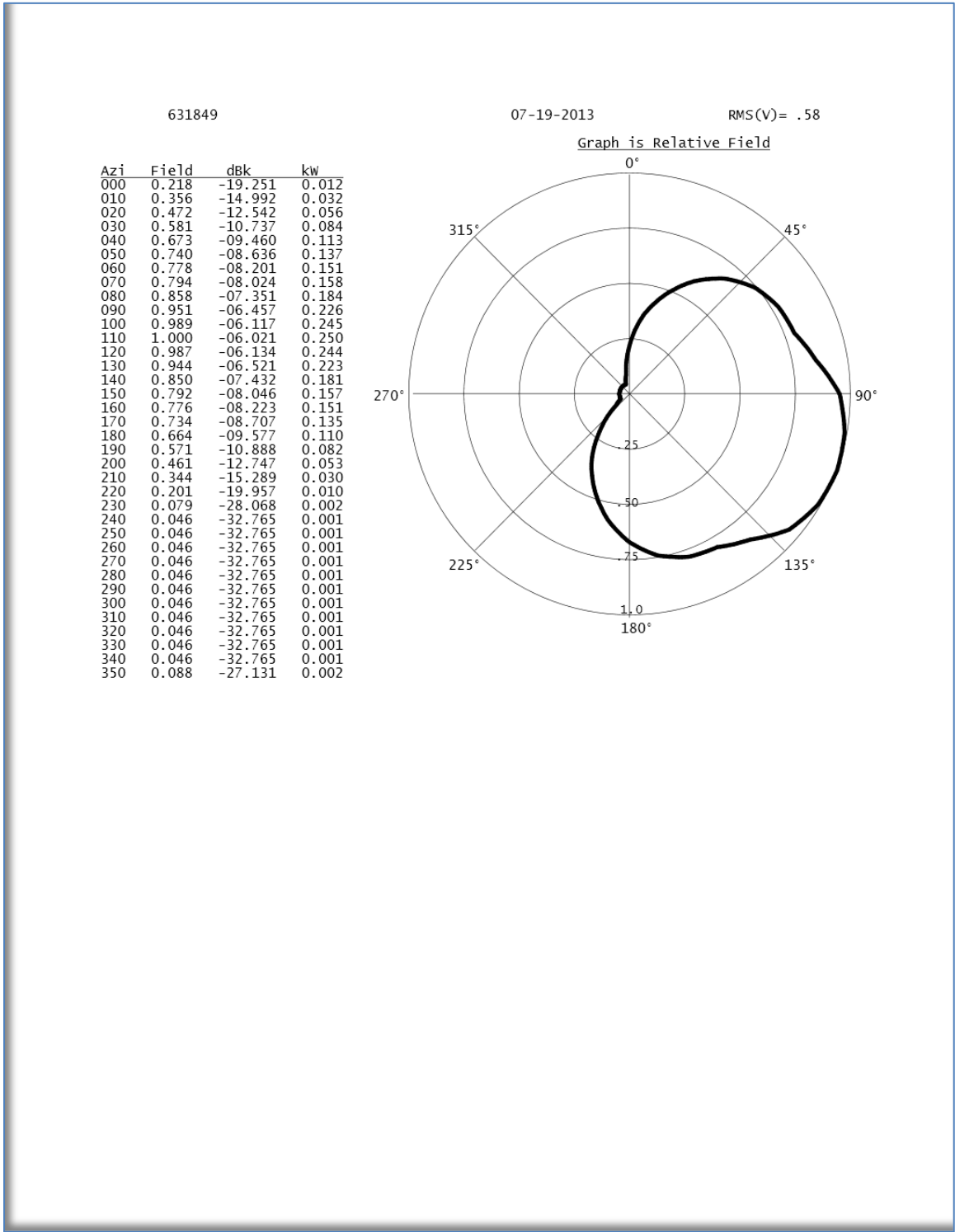


Figure 2. Contour Map

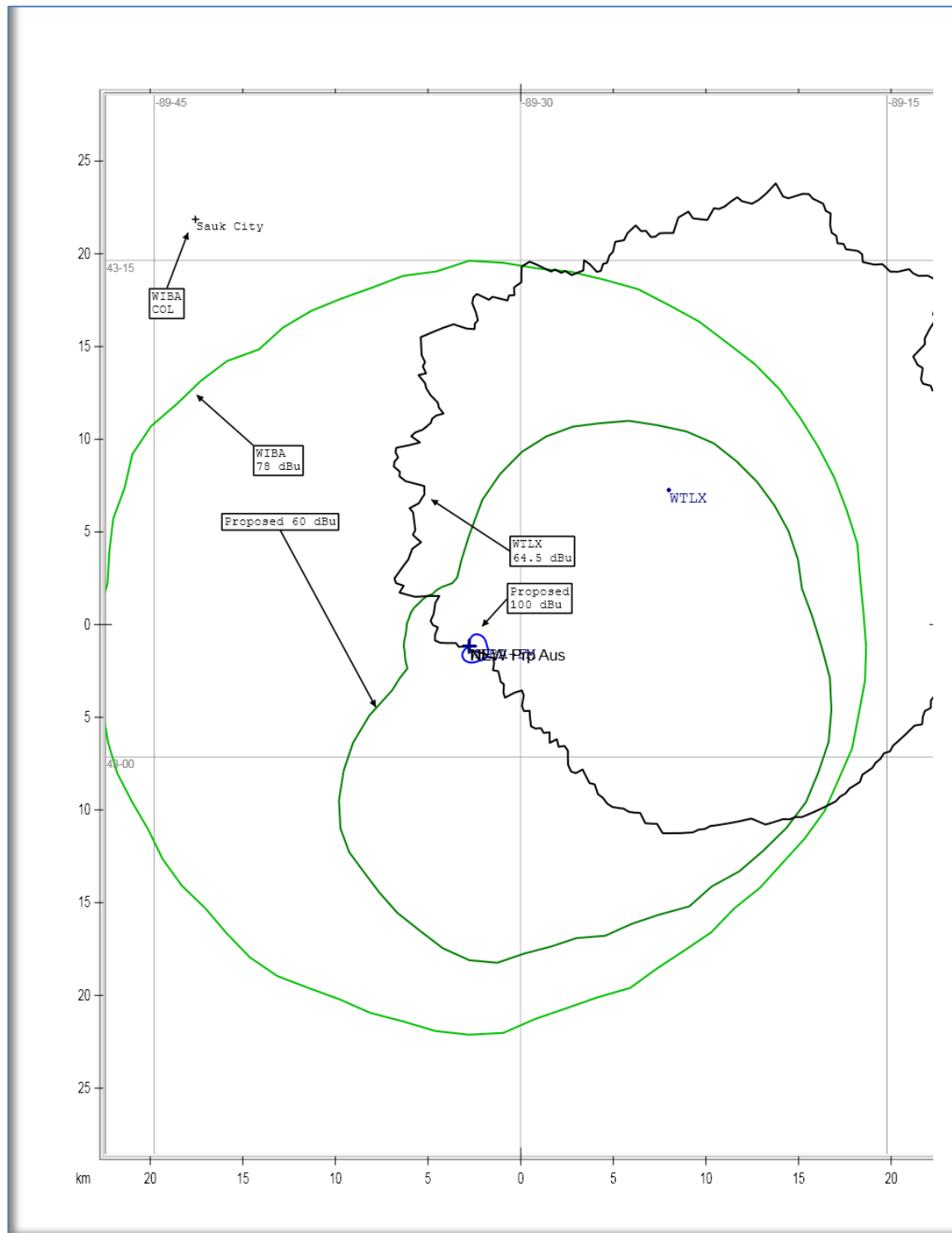


Figure 3. Signal Level at or Near Ground Level

Proposed Antenna: Scala CL-FMV 2 Stack full wave Proposed Power: 0.25 kW Antenna Height AGL: 200 meters Interference Contour: 104.5 f(50:10) Artificial Rcv Antenna Height: 2 meters Distance (Free Space) Equation: $=(10^{((106.92-[\text{desired dBu}]+[\text{ERP in dBk}])/20))} \times 1000)$ Field Strength (dBu) Equation $=106.92-(20 \times (\text{LOG10}[\text{DistMeters}/1000]))+[\text{ERP in dBk}]$								
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. to	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	660.65 m	infinite	---	infinite	---
-5°	0.948	0.225	-6.48	626.29 m	2271.80 m	93.31 dBu	2294.74 m	93.22 dBu
-10°	0.828	0.171	-7.66	547.02 m	1140.24 m	98.12 dBu	1151.75 m	98.03 dBu
-15°	0.646	0.104	-9.82	426.78 m	765.01 m	99.43 dBu	772.74 m	99.34 dBu
-20°	0.436	0.048	-13.23	288.04 m	578.91 m	98.44 dBu	584.76 m	98.35 dBu
-25°	0.233	0.014	-18.67	153.93 m	468.51 m	94.83 dBu	473.24 m	94.74 dBu
-30°	0.061	0.001	-30.31	40.30 m	396.00 m	84.65 dBu	400.00 m	84.56 dBu
-35°	0.069	0.001	-29.24	45.58 m	345.20 m	86.91 dBu	348.69 m	86.83 dBu
-40°	0.151	0.006	-22.44	99.76 m	308.03 m	94.71 dBu	311.14 m	94.62 dBu
-45°	0.178	0.008	-21.01	117.60 m	280.01 m	96.96 dBu	282.84 m	96.88 dBu
-50°	0.159	0.006	-21.99	105.04 m	258.47 m	96.68 dBu	261.08 m	96.59 dBu
-55°	0.116	0.003	-24.73	76.64 m	241.71 m	94.52 dBu	244.15 m	94.44 dBu
-60°	0.071	0.001	-29.00	46.91 m	228.63 m	90.74 dBu	230.94 m	90.65 dBu
-65°	0.040	0.000	-33.98	26.43 m	218.47 m	86.15 dBu	220.68 m	86.07 dBu
-70°	0.019	0.000	-40.45	12.55 m	210.71 m	80.00 dBu	212.84 m	79.91 dBu
-75°	0.010	0.000	-46.02	6.61 m	204.98 m	74.66 dBu	207.06 m	74.58 dBu
-80°	0.010	0.000	-46.02	6.61 m	201.05 m	74.83 dBu	203.09 m	74.75 dBu
-85°	0.010	0.000	-46.02	6.61 m	198.76 m	74.93 dBu	200.76 m	74.85 dBu
-90°	0.010	0.000	-46.02	6.61 m	198.00 m	74.97 dBu	200.00 m	74.88 dBu

Figure 4. Aerial Image of Area Near Proposed Support Tower

