

Comprehensive Engineering Exhibit

Minor Modification of BPFT-20130820ABL

Facility ID No. 144998

This engineering exhibit is part of an application seeking to operate W259BW with a directional antenna mounted 67 meters above ground on a support structure identified by ASR# 1242890 with 250 watts maximum power. It will be serving as fill-in translator for station WAKS as shown in **Figure 1**. The overlapping 60 dBu contours of the permitted facility is also shown.

Below as **Figure 2** is a spacing study from which it can be determined that this proposal is not within the protected contour of any other protected channel facilities, and no interfering contour of this proposal will overlap the protected contour of any other facility by utilization of the proposed directional antenna of **Figure 3**.

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 antenna system is an array of Scala CA2-FM/CP antenna mounted 67 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 0.250 Kilowatts in both the horizontal and vertical planes. At 2 meters above the surface, at 16.8 meters from the base of the tower, this proposal will contribute worst case, 2.7 microwatts per square centimeter, or 0.27 percent of the allowable ANSI limit for controlled exposure, and 1.35 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. Contour, and Distance Map

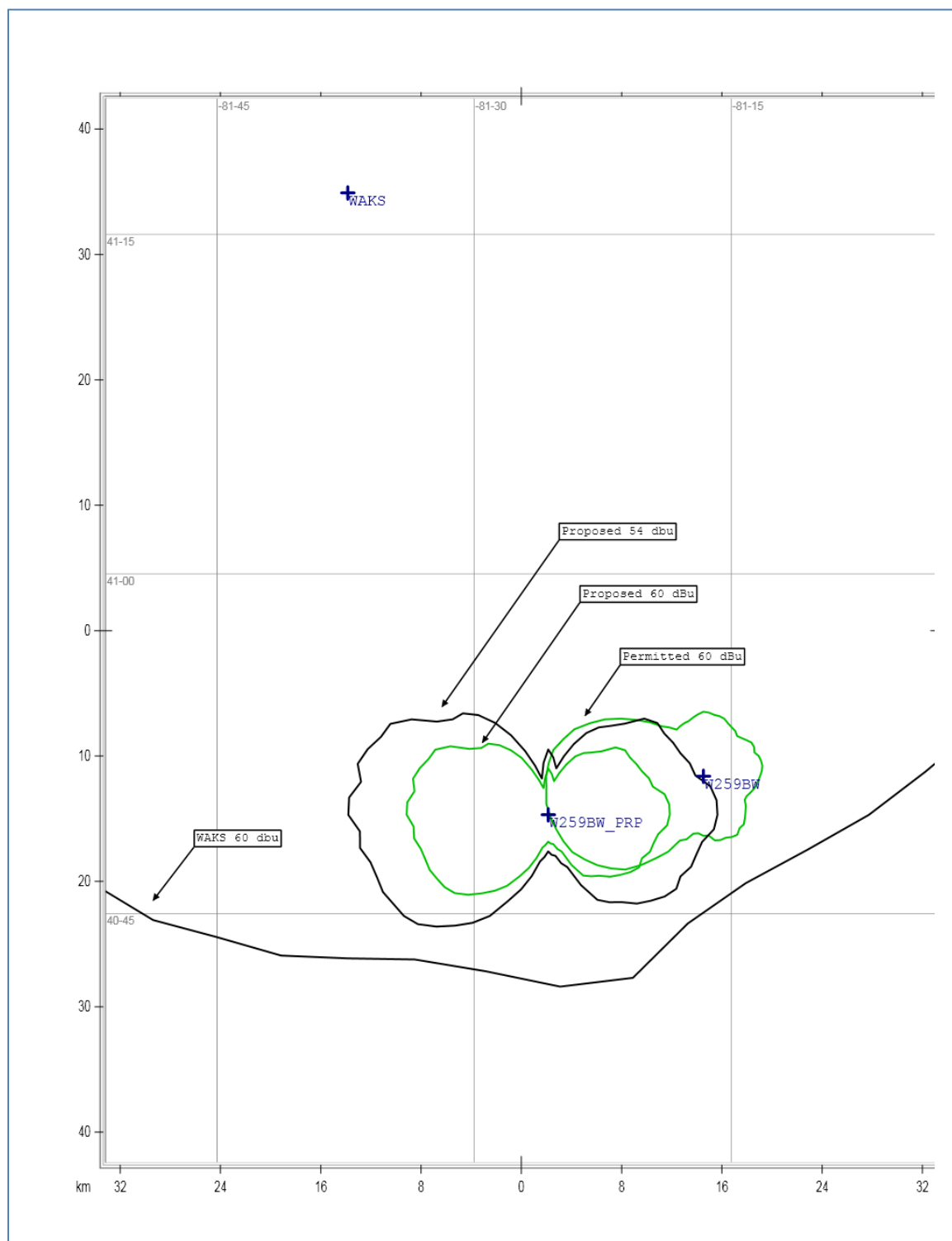


Figure 2. Spacing Study

Overlap Study with Proposed Antenna from 40-49-21.8 N 81-25-40.6								
Fac_id	Callsign	Chanl	Licensee	ARN	Class	Status	Dist_km	Clr
144998	W259BW	259	CAPSTAR TX LIMITED PARTNERSHIP	BNPFT20130820ABL	D	CP	13.12	-70.67 dB
47740	WGAR-FM	258	CITICASTERS LICENSES, INC.	BMLH19810227AF	B	LIC	65.65	0.23 dB
55709	WSHH	259	RENDA BROADCASTING	BPH20131118BKE	B	APP	126.85	2.80 dB
55709	WSHH	259	RENDA BROADCASTING	BXPB20131017AJK	B	CP	126.85	2.82 dB
74144	WTUZ	260	WTUZ RADIO, INC.	BLH20000612AAQ	A	LIC	42.66	2.56 dB
55709	WSHH	259	RENDA BROADCASTING	BLH20060810AFK	B	LIC	126.85	2.78 dB
41077	WNIR	261	MEDIA-COM, INC.	BLH20000118ABB	A	LIC	32.24	3.21 dB
47740	WGAR-FM	258	CITICASTERS LICENSES, INC.	BLH19850809KF	B	LIC	65.65	13.62 dB
49107	WRKZ	259	NORTH AMERICAN BROADCASTING	BLH19881128KA	B	LIC	165.5	13.84 dB
74144	WTUZ	260	WTUZ RADIO, INC.	BXLH19991020ABH	A	LIC	42.66	16.69 dB
71285	WCLT-FM	262	WCLT RADIO, INC.	BLH3646	B	LIC	120.45	18.78 dB
13983	WTNS-FM	257	COSHOCTON BROADCASTING CO.	BLH4024	A	LIC	69.58	25.33 dB
142648	NEW	258	STARBOARD MEDIA FOUNDATION, INC.	BNPFT20030311APU	D	APP	72.37	26.21 dB
142648	NEW	258	STARBOARD MEDIA FOUNDATION, INC.	BNPFT20130822AFV	D	APP	71.7	26.03 dB

Figure 3. Proposed Antenna Pattern

