

Comprehensive Engineering Exhibit
W260BJ – Tupelo, Mississippi
Facility ID No. 140561

This application seeks to modify the facilities of FM Translator W260BJ by changing the operating frequency to mutually exclusive, first adjacent channel 261. The applicant proposed to continue to utilize 250 watts ERP, with a directional antenna mounted 46 meters above ground level, on a tower identified by ASR No. 1043847 to serve as a fill-in translator for AM station WTUP. As with the existing operation, the proposed facility will utilize a common antenna with translator W266BC and since no changes will be made to the antenna system, this proposal will have no impact upon the collocated AM stations WTUP and WKMQ.

Below as Figure 1 is a spacing/clearance table demonstrating compliance with the spacing requirements of section 74.1204 of the FCC Rules.

As shown in Figure 2, the entire 60 dBu contour fits within the predicted daytime 2 mV/m contour of the primary AM station for which this translator is to be "fill-in".

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."

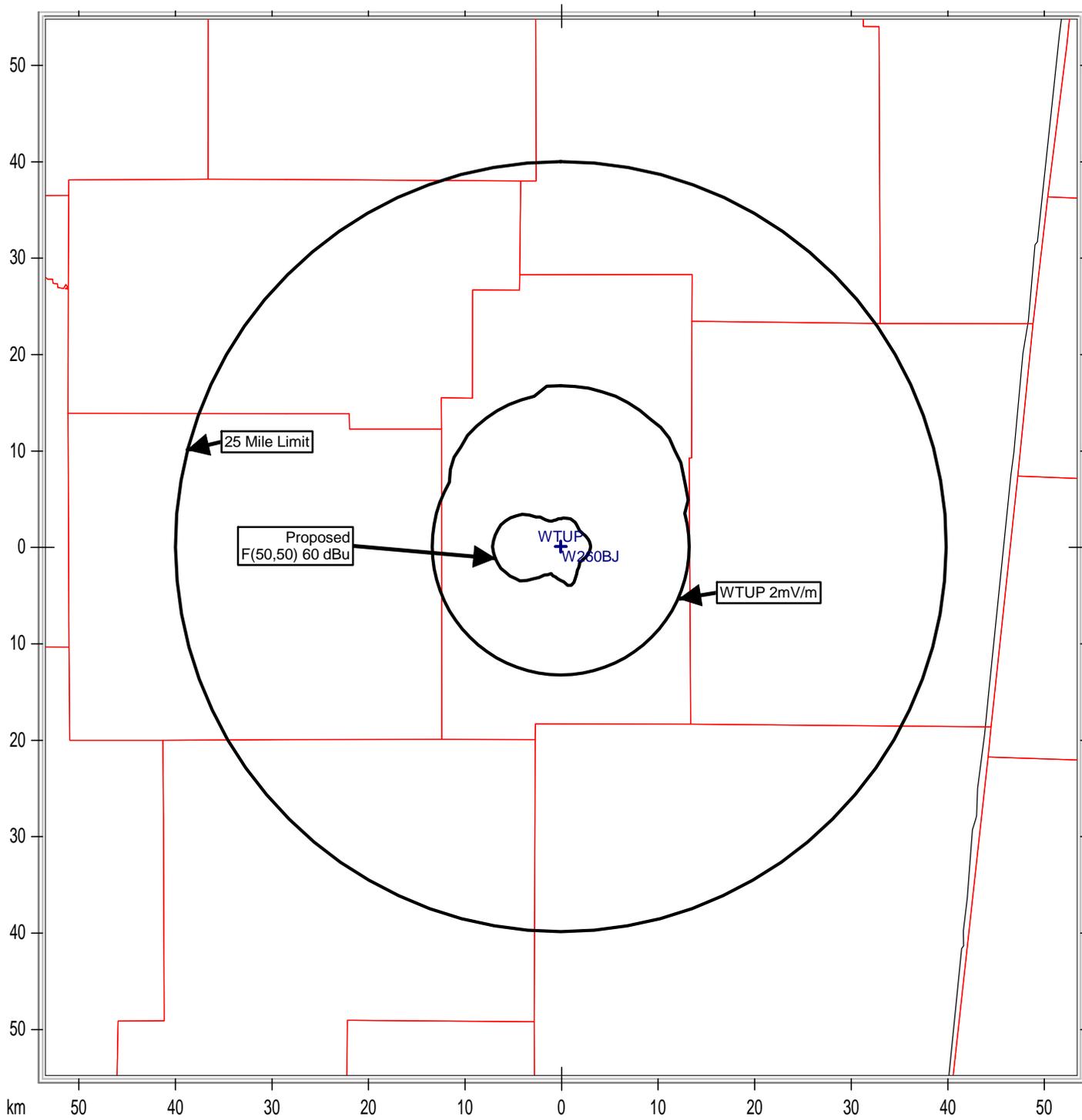
The proposed antenna system is a Scala Model CA5-FM/CP/RM, circularly polarized yagi antenna mounted 46 meters above ground. For purposes of this analysis the FM Model program has been set to calculate values for a worst case "Ring Stub" antenna element, operated with an effective radiated power of 0.250 Kilowatts in both the horizontal and vertical polarizations. At 2 meters above the surface, at 12 meters from the base of the tower, this proposal will contribute worst case, 5.193 microwatts per square centimeter, or 0.52 percent of the allowable ANSI limit for controlled exposure, and 2.60 percent of the allowable limit for uncontrolled exposure. This figure is less the 5% of the applicable FCC 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 his proposal is in compliance with OET Bulletin Number 65 as required by the FCC.

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, was necessary to limit human exposure to levels less than specified by the FCC should anyone be required to climb the tower for maintenance or inspection.

Figure 1. Spacing/Clearance Table

Callsign	Channel	ERP_w	ARN	Class	Status	Dist_km	Sep	Clr	Clr Notes
WSMS	260	47000	BLH-19960730KC	C2	LIC	66.98	0	5.17 dB	Clear
WQXB	261	48000	BLH-20030725ADA	C2	LIC	121.93	0	14.32 dB	Clear
WYDL	262	25000	BLH-20111007ABB	C3	LIC	83.09	0	18.15 dB	Clear
WBLE	263	50000	BLH-19890828KD	C2	LIC	99.97	0	20.91 dB	Clear
W261CE	261	250	BLFT-20140331AAT	D	LIC	137.66	0	21.01 dB	Clear
WMC-FM	259	290000	BMLH-20050308AAR	C	LIC	149.3	0	22.01 dB	Clear
WMAE-FM	208	85000	BMLED-20090522AAQ	C1	LIC	46.01	22	24	Clear
NEW	258	1800	BNPH-20130723AAC	A	CP	71.9	0	24.06 dB	Clear
W261BT	261	250	BLFT-20140519AHW	D	LIC	163.14	0	24.57 dB	Clear
W261BY	261	80	BMPFT-20150624ABY	D	CP MOD	123.58	0	28.22 dB	Clear
W261BS	261	250	BLFT-20140418AAA	D	LIC	167.11	0	28.08 dB	Clear
W261CF	261	100	BNPFT-20130826AFJ	D	CP	150.39	0	31.62 dB	Clear
WZRR	258	100000	BLH-19980128KB	C0	LIC	191.65	0	33.85 dB	Clear
WJQX	263	69000	BLH-20071210ADE	C1	LIC	185.14	0	34.55 dB	Clear
K261EA	261	250	BNPFT-20130315ABY	D	CP	214.97	0	36.50 dB	Clear
W261CS	261	250	BPFT-20150325ACJ	D	APP	213.93	0	36.15 dB	Clear
W261BX	261	35	BMPFT-20140814ACL	D	CP MOD	194.19	0	38.97 dB	Clear

Figure 2. Contour and Distance Map



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