

Comprehensive Engineering Exhibit
Application for Minor Change
Facility ID: 146875
K243AT
Meraux, Louisiana
October 2009

This application is to request a change in location and power of translator station K243AT. The facility will be utilized as a “fill-in” translator for primary station WQUE-FM. The 60 dBu service contour of the proposed facility overlaps the existing licensed facility K243AT, as is required for filing a minor modification application, and is demonstrated in Figure 1.

From the proposed rooftop location¹, 164 meters above ground, on a building roof mounted tower identified by antenna structure number 1021737, it is proposed that channel 243 will continue to be utilized, with 215 watts effective radiated power, employing a non-directional antenna. Attached as Figure 2 is an allocation spacing report, it can be seen that the proposed location is within the protected contour of 3rd adjacent facility WEZB. It is proposed that the undesired-to-desired (“U/D”) signal strength ratio interference prediction methodology² be employed with respect to WEZB. Co-channel facility WTGG will not receive any prohibited contour overlap.

In the vicinity of the proposed antenna location, the predicted F50:50 field strength of WEZB is 110.0 dbu (F50:50), as demonstrated on the contour map of Figure 1. Therefore the 40 db greater, interfering contour from this proposal to WEZB is 150 dBu (110.0+40.0). Using the “line of site” formula the distance from a 215 watt source that a 150 dBu signal extends is only 3.3 meters. No area accessed by the public, no recreational, office, or industrial space, and no residential space is within 3.3 meters of the antenna, thus no interference to WEZB will be caused due to lack of population.

This proposal will not create any prohibited contour overlap with WTGG as is demonstrated in Figure 1.

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.”

Due to the complexity of the surrounding environment, the licensee will take power density measurements prior to filing of an application for license to demonstrate compliance with 73 CFR 1.1306.

¹ (29-56-46 N, 90-04-35 W),

² FCC 04-68, MO&O, BPFT-19981021TF

Figure 1. Contour Map

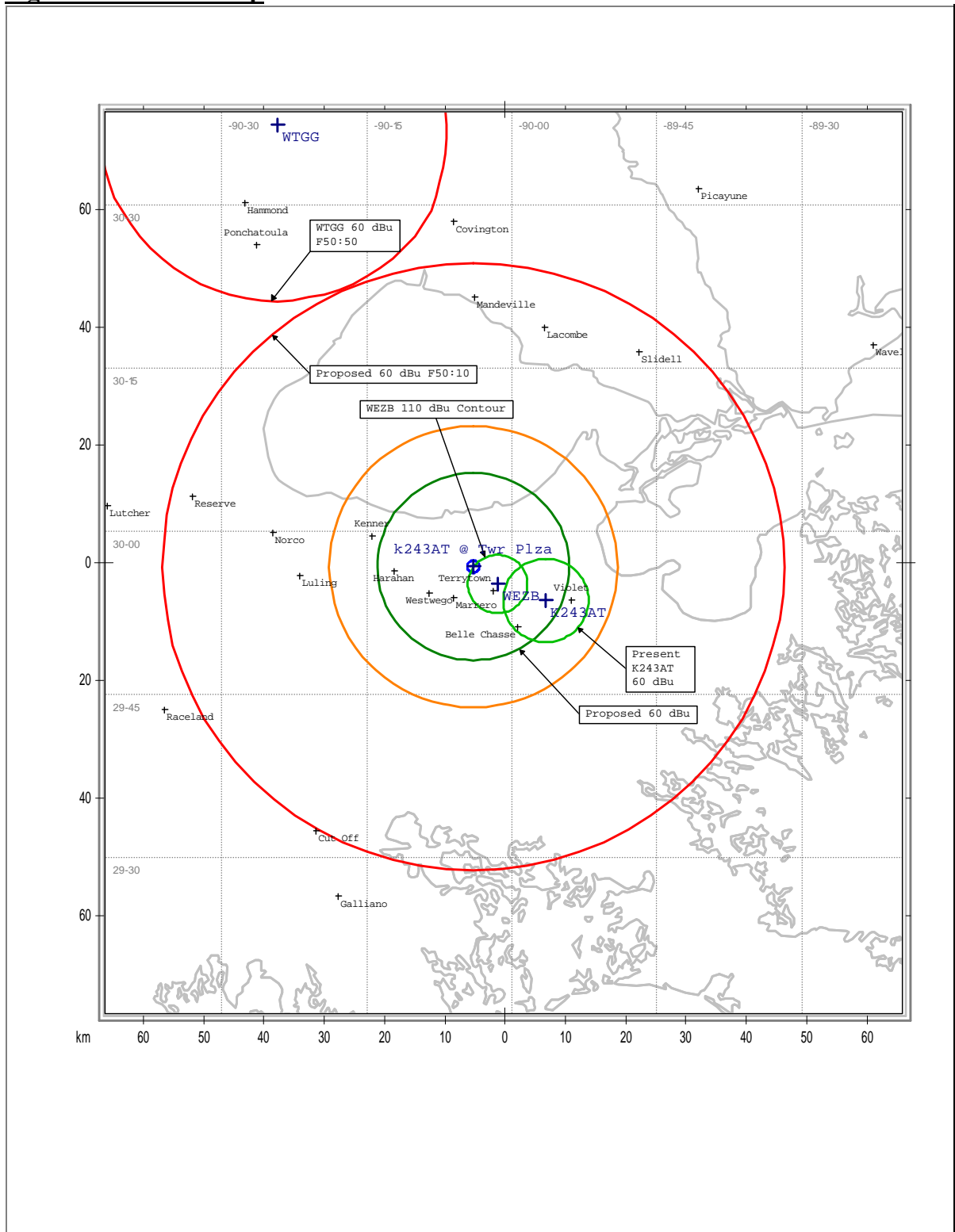


Figure 2. Channel Allocation Study.

ComStudy 2.2 search of channel 243 (96.5 MHz Class D) at 29-56-46.0 N, 90-04-00.0 W.								
Callsign	State	City	Channel	ERP_w	Class	Dist_km	Sep	Clr
WEZB	LA	NEW ORLEANS	246	99000	C0	5	0	-52.64 dB
K243AT	LA	MERAUX	243	250	D	13.36	0	-42.33 dB
WTGG	LA	AMITE	243	6000	A	81.84	0	0.11 dB
KMYO-FM	LA	GRAY	244	50000	C2	88.43	0	9.69 dB
KMYO-FM	LA	MORGAN CITY	244	12000	C3	94.39	0	14.73 dB
KFTE	LA	BREAUX BRIDGE	243	42000	C2	186.5	0	23.25 dB
KRVE	LA	BRUSLY	241	50000	C2	108.85	0	23.49 dB
WUJM	MS	GULFPORT	244	4300	A	110.74	0	24.32 dB
WXHB	MS	RICHTON	243	5700	C3	209.92	0	29.51 dB