

Engineering Exhibit  
Minor Modification Application  
WWMG, Millbrook, AL  
Facility ID: 8662  
February 17, 2006

This application seeks a “one step” class upgrade of WWMG at its presently authorized antenna location, with an increase in effective radiated power to 5,400 watts as a class C3 facility from the presently authorized 1,300 watts class A.

The antenna of WWMG is, and will remain located 210 meters above ground level upon a tower described by antenna structure registration number 1038437. From this location as a class C3 facility WWMG is full spaced in accordance with Section 73.207 to all known facilities, applications and allocations with the exception of WDJR. A spacing study has been made part of this exhibit as Figure 1. Spacing via Section 73.215 contour protection to station WDJR is requested. To prevent prohibited contour overlap a directional antenna is proposed. Figure 3 is a map demonstrating no prohibited contour overlap. Utilizing the web page provided by the Commission entitled “FMpower” it has been determined that the maximum power a class C3 facility may operate with is 5,400 watts at the proposed/current antenna height above average terrain of 214 meters.

A change in class requires a fully spaced “Allotment Coordinate” location, this application proposes 31-26-37 North, 86-14-46 West. A spacing study is attached as Figure 2. It should be noted that station WKGA Dadeville, AL was granted a frequency change to Channel 262, 100.3 MHz in granted license application BLH-20050202ADT.

**Radio Frequency Radiation Study and 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 an EPA type 3, 3- bay, full wave spaced, “Roto- tiller “ antenna, mounted with its center of radiation 210 meters above ground level, and will operate with an effective radiated power of 5.4 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 105 meters from the base of the tower, this proposal will contribute worst case, 0.87 microwatts per square centimeter, or 0.09 percent of the allowable ANSI limit for controlled exposure, and 0.45 percent of the allowable limit for uncontrolled exposure. 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. Antenna Location Spacing Study**

ComStudy 2.2 search of channel 246 (97.1 MHz Class C3) at 32-20-06.0 N, 86-17-16.0 W.

Callsign	State	City	Freq	Chanl	ERP_w	Class	Status	Dist_km	Sep	Clr	Notes
WKGA	AL	DADEVILLE	97.3	247	2750	A	LIC	74.89	89	-14.1	Note 1
WDJR	AL	ENTERPRISE	96.9	245	100000	C	LIC	165.25	176	-10.7	Note 2
WDJR	AL	ENTERPRISE	96.9	245	0	C	USE	165.25	176	-10.7	Note 2
	AL	PINE LEVEL	97.5	248	0	A	DEL	36.61	42	-5.4	Note 3
	AL	PINE LEVEL	97.5	248	0	A	DEL	36.61	42	-5.4	Note 3
WDJR	AL	ENTERPRISE	96.9	245	100000	C0	APP	164.93	163	1.9	
WDJR	AL	ENTERPRISE	96.9	245	0	C0	RSV	164.93	163	1.9	
	AL	PINE LEVEL	97.5	248	0	A	APP	46.61	42	4.6	
	AL	PINE LEVEL	97.5	248	0	A	APP	46.61	42	4.6	
W300AN	AL	MONTGOMERY	107.9	300	55	D	LIC	11.03	0	11	
	AL	SHORTER	107.9	300	0	C3	ADD	27.59	14	13.6	
	AL	SHORTER	107.9	300	0	C3	ADD	27.59	14	13.6	
WOKK	MS	MERIDIAN	97.1	246	100000	C1	LIC	226	211	15	
WOKK	MS	MERIDIAN	97.1	246	0	C1	USE	226.23	211	15.2	

Note 1. Station Changed Channel - See BLH-20050202ADT

Note 2. Spacing Via 73.215 Requested

Note 3. Deleted Allocation

**Figure 2. Allocation Location Spacing Study**

ComStudy 2.2 search of channel 246 (97.1 MHz Class C3) at 32-26-37.0 N, 86-14-46.0 W.

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr	Notes
WKGA	AL	DADEVILLE	97.3	247	2750	A	LIC	62.94	89	-26.1	Note 1
WDJR	AL	ENTERPRISE	96.9	245	100000	C	LIC	175.6	176	-0.4	
WDJR	AL	ENTERPRISE	96.9	245	0	C	USE	175.6	176	-0.4	
	AL	PINE LEVEL	97.5	248	0	A	DEL	45.23	42	3.2	
	AL	PINE LEVEL	97.5	248	0	A	DEL	45.23	42	3.2	
W300AN	AL	MONTGOMERY	107.9	300	55	D	LIC	4.32	0	4.3	
WNCB	AL	GARDENDALE	97.3	247	6200	C2	CP	126.78	117	9.8	
	AL	SHORTER	107.9	300	0	C3	ADD	25.09	14	11.1	
	AL	SHORTER	107.9	300	0	C3	ADD	25.09	14	11.1	
WDJR	AL	ENTERPRISE	96.9	245	0	C0	RSV	175.29	163	12.3	
WDJR	AL	ENTERPRISE	96.9	245	100000	C0	APP	175.29	163	12.3	
	AL	PINE LEVEL	97.5	248	0	A	APP	55.09	42	13.1	
	AL	PINE LEVEL	97.5	248	0	A	APP	55.09	42	13.1	
WEZZ-FM	AL	CLANTON	97.7	249	3000	A	LIC	59.57	42	17.6	

Note 1. Station Changed Channel - See BLH-20050202ADT

Figure 3

