

**WSDD(FM) Engineering Exhibit
Antenna Location Modification of
Granted Permit BPH-20080313ABN
Facility ID No. 48958**

This engineering exhibit is part of a minor change application for WSDD(FM) to modify the antenna location for permitted for WSDD(FM) in BPH-20080313ABN.

The proposed location for WSDD(FM) is a new tower described in antenna structure registration number 1272657. From this location WSDD(FM) will operate with a directional antenna, at a height above average terrain of 120 meters. The web page provided by the FCC was utilized to determine the maximum effective radiated power for a Class C3 facility at this height as 17 kilowatts. As demonstrated in the attached spacing study in Figure 1, this proposed location is fully spaced in accordance with section 73.207 to all other existing, authorized, and proposed stations and allotments with the exception of KDJR Desoto, Missouri, and WYMG Jacksonville, Illinois, which are discussed below.

This proposal is short spaced to first adjacent WYMG 263B Jacksonville by 29.5 kM while the existing WSDD(FM) authorization is short spaced to WYMG by 83.8 kM and is “grandfathered” pursuant to Section 73.213(a). This proposal will result in a 54.3 kM decrease in this short spacing. Figure 2 is a map depicting the protected and interfering contours of WSDD(FM) as licensed and proposed, as well as those of WYMG. This exhibit demonstrates that there is existing overlap between WYMG and the Licensed WSDD(FM), as well as the extent of reduction in overlap, and that no new area of interference will be created by this proposal. It is thought that this proposal is compliant with Section 73.213(a), and is in the public interest.

This proposal is short spaced to first adjacent KDJR 261A Desoto by 13.8 kM. It is proposed to utilize the provisions of Section 73.215. Figure 3 is a map depicting the protected and interfering contours of WSDD(FM) as proposed, as well as those of KDJR. Please note that KDRJ is presently licensed pursuant to Section 73.215 thus protection is only given to the existing facility by this proposal. In Figure 3 it can be determined that utilizing the proposed directional antenna, operation at 17 kW will not create prohibited interference to KDJR from the proposed WSDD(FM) facility.

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, 6- bay, full wave spaced, “Roto- tiller “ antenna, mounted with its center of radiation 93 meters above ground level, and will operate with an effective radiated power of 17 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 29 meters from the base of the tower, this

proposal will contribute worst case, 9.4 microwatts per square centimeter, or 0.94 percent of the allowable ANSI limit for controlled exposure, and 4.7 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

ComStudy 2.2 search of channel 262 (100.3 MHz Class C3) at 38-41-07.0 N, 90-22-54.0 W.

Callsign	State	City	Freq	Chanl	ERP_w	Class	Status	Dist_km	Sep	Clr
WSDD	IL	ALTON	100.3	262	50000	B	LIC	30.57	211	-180.4
WSDD	MO	BRIDGETON	100.3	262	16000	C3	CP	5.8	153	-147.2
WSDD	MO	BRIDGETON	100.3	262	0	C3	USE	15.01	153	-138
WYMG	IL	JACKSONVILLE	100.5	263	0	B	USE	115.4	145	-29.6
WYMG	IL	CHATHAM	100.5	263	50000	B	LIC	115.45	145	-29.5
KDJR	MO	DE SOTO	100.1	261	2000	A	LIC	75.22	89	-13.8
KDJR	MO	DE SOTO	100.1	261	0	A	USE	75.22	89	-13.8
KCFV	MO	FERGUSON	89.5	208	100	A	LIC	12.34	12	0.3
KGNX	MO	BALLWIN	89.7	209	120	A	LIC	14.92	12	2.9
WCBW-FM	IL	EAST ST. LOUIS	89.7	209	250	A	LIC	16.7	12	4.7

Figure 2.

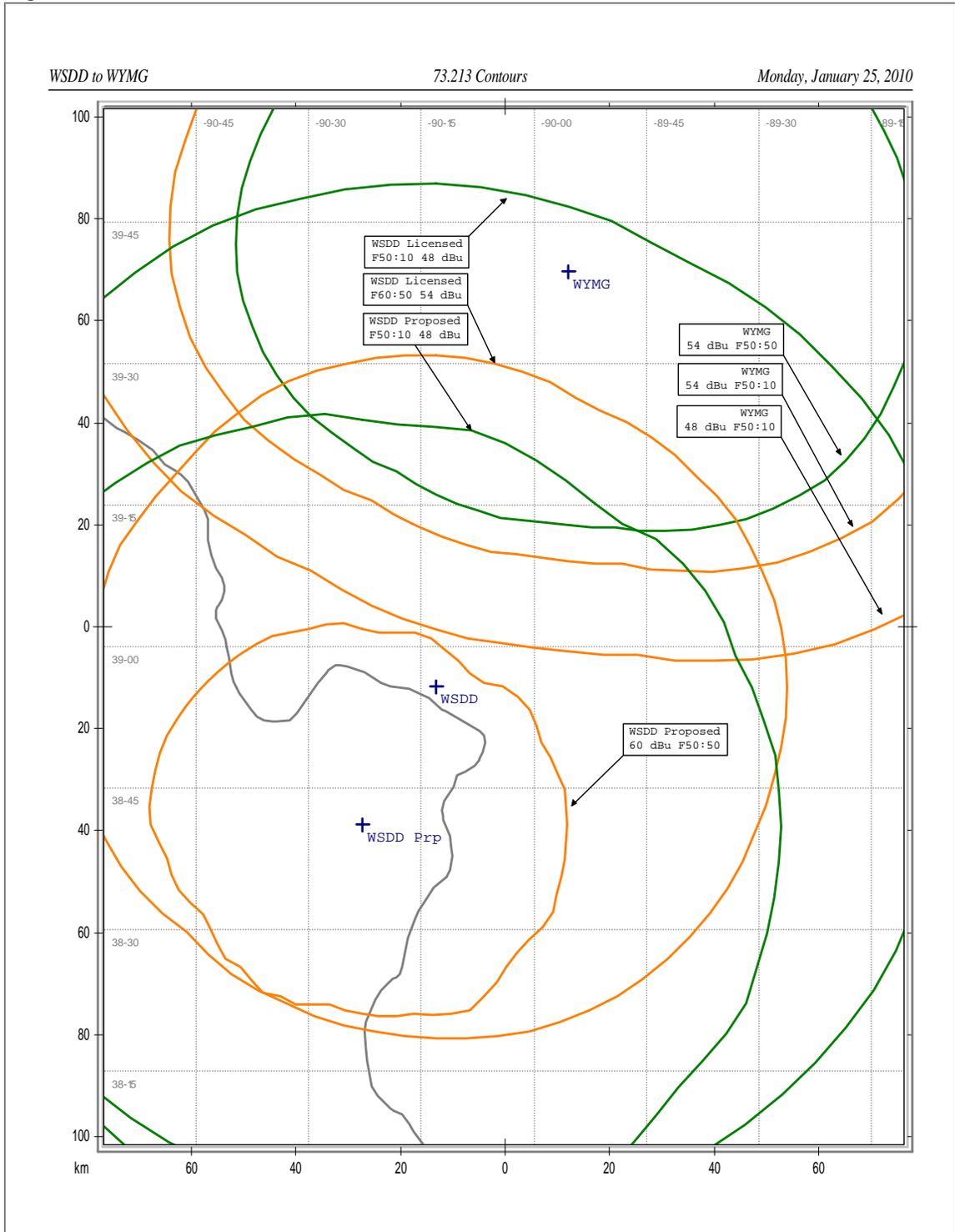


Figure 3.

