

## WCVU Comprehensive Engineering Exhibit

September 1, 2010

By this application WCVU seeks to be licensed using a non-directional antenna at the presently licensed location, height and power. No other changes in the facility are sought.

WCVU is now and will continue to be short spaced to the first adjacent facilities of WSGL and WRBQ-FM both of which are licensed via Section 73.215, as can be seen in **Table 1** below. WCVU request spacing in accordance with Section 73.215 to these short spaced facilities. No prohibited contour overlap is predicted to occur between the proposed non-directional WCVU and these short spaced facilities, as depicted in **Map 1** below.

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 ERI LPX "Roto-Tiller", 4- bay, full-wave spaced antenna mounted 96 meters above ground. For purposes of this analysis the FM Model program has been set to calculate values for this type of antenna element array, operated with an effective radiated power of 3.0 Kilowatts in both the horizontal and vertical planes. At 2 meters above the surface, at 39 meters from the base of the tower, this proposal will contribute worst case, 3.9 microwatts per square centimeter, or 0.39 percent of the allowable ANSI limit for controlled exposure, and 2.0 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.

**Table 1. ComStudy 2.2 search of channel 285 (104.9 MHz Class A) at 26-53-37.0 N, 82-03-03.0 W.**

Callsign	State	ChanI	ERP_w	ARN	Class	Status	Dist_km	Comments	Sep	Clr
WSGL	FL	284	20000	BLH20000105AAP	C2	LIC	91.12	*973.215*	106	-14.9
WRBQ-FM	FL	284	99000	BLH20100122AAR	C1	LIC	120.12	*973.215*	133	-12.9
WZSP	FL	287	4100	BLH19980901KA	A	LIC	33.68	*973.215*	31	2.7
WBTT	FL	288	23500	BLH20020806AAR	C2	LIC	69.11	*973.215*	55	14.1

**Map 1**