

## Engineering Exhibit Spacing Study and 73.215 Contour Map

WYBL Facility ID# 87818 wishes to modify it's construction permit to allow operation from an existing tower (ASR# 1019221) at a location of 41-51-39 80-40-47 NAD 27 at a height above ground of 85 meters.

### **WYBL requests use of 73.215 spacing to stations WNCX and WGYI:**

By locating at this site WYBL will be short spaced using 73.207 with stations WNCX Cleveland, OH and WGYI Oil City, PA. By using a directional antenna, and a reduction in effective radiated power WYBL will contour protect WNCX and WGYI using 73.215 of the FCC rules.

### **Spacing study:**

ComStudy 2.2 73-207 search of channel 252 (98.3 MHz  
Class A) at 41-51-39.0 N, 80-40-47.0 W.

Callsign	State	City	Channel	Class	Status	Distance_km	Sep	Clr
WYBL	OH	ASHTABULA	252	A	APP	9.78	115	105.2
WNCX	OH	CLEVELAND	253	B	LIC	105.57	113	-7.4
WNCX	OH	CLEVELAND	253	B	LIC	105.57	113	-7.4
WGYI	PA	OIL CITY	253	B1	LIC	94.27	96	-1.7
WXTA	PA	EDINBORO	250	B1	LIC	48.61	48	0.6
WKDD	OH	CANTON	251	B	LIC	114.27	113	1.3

### **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, full-wave spaced antenna, of at least 3 sections, mounted with its center of radiation 85 meters above ground level, and will operate with an effective radiated power of 5.3 kilowatts in both the horizontal and vertical planes. At 2 meters, the height of an average person, this proposal will contribute, worst case, 3.5 microwatts per square centimeter, or 0.35 percent of the allowable ANSI limit for controlled exposure, and 1.8 percent of the allowable limit for uncontrolled exposure. At the tower base, power density is even lower. 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 warning 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.

**Map showing Protected and Interfering contours of all stations for contour protection:**

