

Engineering Exhibit

Spacing Study and 73.215 Contour Map

WYBL Facility ID# 87818 seeks to modify it's construction permit to allow operation from an existing tower described by antenna structure registration (ASR)# 1011701) at a height above ground of 70 meters, with a maximum power output of 5.3 kilowatts.

WYBL requests use of 73.215 spacing to stations WNCX and WKDD:

By locating at this site WYBL will be short spaced using Section 73.207 with stations WNCX Cleveland, OH and WKDD Canton, OH. By utilizing a directional antenna WYBL will contour protect WNCX and WKDD in accordance with Section 73.215 of the FCC rules.

Spacing study:

ComStudy 2.2 search of channel 252 (98.3 MHz Class A)
at 41-50-23.0 N, 80-44-36.0 W.

Callsign	State	City	Chnl	ERP_w	Class	Status	Dist_km	Sep	Clr
WNCX	OH	CLEVELAND	253	18000	B	LIC	99.86	113	-13.1
WNCX	OH	CLEVELAND	253	16000	B	LIC	99.86	113	-13.1
WNCX	OH	CLEVELAND	253	0	B	USE	99.86	113	-13.1
WKDD	OH	CANTON	251	50000	B	LIC	109.76	113	-3.2
	ON	LONDON	253	0	B		133.8	132	1.8
WGYI	PA	OIL CITY	253	0	B1	USE	97.69	96	1.7
WGYI	PA	OIL CITY	253	20000	B1	LIC	97.69	96	1.7
WKDD	OH	CANTON	251	0	B	USE	114.31	113	1.3
WXTA	PA	EDINBORO	250	10000	B1	LIC	54.31	48	6.3

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 6, full-wave spaced antenna, of 2 sections, mounted with its center of radiation 70 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, at a distance of 45 meters from the base of the tower, this proposal will contribute worst case, 10.02 microwatts per square centimeter, or 1.00 percent of the allowable ANSI limit for controlled exposure, and 5.0 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:

