

MINOR CHANGE APPLICATION
JMD, INC.
WZNF (FM) RADIO STATION
CH 237C0 - 95.3 MHZ - 70.0 KW
LUMBERTON, MISSISSIPPI
October 2003

EXHIBIT B

Radio Frequency Radiation Study

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby stations, specifically co-located FM station WZKX and co-located television stations WXXV-TV and WXXV-TV (DTV), and utilizes the appropriate formulas contained in the Bulletin.

The proposed WZNF antenna system will be mounted with its center of radiation 332.85 meters (1092 feet) above the ground at the tower location and operate with an effective radiated power of 70.0 kilowatts in the horizontal and vertical planes (circularly polarized). At two meters, the height of an average person, above the ground at the base of the tower, the WZNF antenna system will contribute 0.0257 mw.² Based on exposure limitations for a controlled environment, 2.6% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 12.9% of the ANSI limit is reached at two meters above the ground at the base of the tower.

2) Using the FCC program FMMODEL and considering a worst case single bay dipole antenna, this level of interference was calculated to fall 89.6 meters from the base of the tower and is considered worst case.

The co-located WZKX antenna system is mounted with its center of radiation 416.84 meters (1367.6 feet) above the ground at the tower location and operates with an effective radiated power of 100.0 kilowatts in the horizontal and vertical planes (circularly polarized). At two meters, the height of an average person, above the ground at the base of the tower, the WZKX antenna system will contribute 0.023 mw.³ Based on exposure limitations for a controlled environment, 2.3% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 11.7% of the ANSI limit is reached at two meters above the ground at the base of the tower.

The co-located WXXV-TV (NTSC) Channel 25 antenna system is mounted with its center of radiation 459 meters (1,505.9 feet) above the ground at the tower location and operates with an effective radiated power of 2,240 kilowatts in the horizontal plane. At two meters, the height of an average person, above ground, at the base of the tower WXXV-TV contributes .02222 mW at the base of the tower. Based on exposure limitations for a controlled environment, 12.4% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 62.2% of the ANSI limit is reached at two meters above the ground at the base of the tower.

3) Using the FCC program FMMODEL and considering a worst case single bay dipole antenna, this level of interference was calculated to fall 112 meters from the base of the tower and is considered worst case.

The co-located WXXV-DT Channel 48 antenna system is mounted with its center of radiation 431 meters (1,414.0 feet) above the ground at the tower location and operates with an effective radiated power of 300 kilowatts in the horizontal plane. At two meters, the height of an average person, above ground, at the base of the tower WXXV-DT⁴ contributes 0.0218 mW at the base of the tower. Based on exposure limitations for a controlled environment, 1.0% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 4.8% of the ANSI limit is reached at two meters above the ground at the base of the tower.

Combining the contributions of WZNF, WZKX, WXXV-TV (NTSE) and WXXV-TV (DTV), a total of 91.6% percent of the uncontrolled environment level is reached at two meters above the base of the tower. Since this level for uncontrolled environments is below the 100% limit defined by the Commission, the proposed WZNF facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, JMD, Inc., will verify that warning signs have been posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, JMD, Inc., will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

4) A downward radiation factor of 0.1 is applied to the radiated power of the Television facility.