

**NEW FM APPLICATION**  
**WEST WAVES, INC.**  
**NEW FM STATION**  
**CH 279C1 - 103.7 MHZ - 51.0 KW**  
**QUESTA, NEW MEXICO**  
**December 2004**

**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 and utilizes the appropriate formulas contained in the Bulletin. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.<sup>4</sup>

The new FM antenna system will be mounted with its center of radiation 55.7 meters (182.8 feet) above the ground at the tower location and operate with an effective radiated power of 51.0 kilowatts in the horizontal and vertical planes (circularly polarized). The proposed Questa, New Mexico antenna is to be manufactured by Electronics Research, Inc., and is their four bay half wavelength rototiller style system (FCC/EPA Type #3). At two meters, the height of an average person, above the ground at the base of the tower, the new FM antenna system will contribute 0.0296 mw.<sup>5</sup> Based on exposure limitations for a controlled environment, 3.0% of

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4) The contributions of the FM facilities were calculated using the FMModel program. The EPA dipole antenna was used for calculation purposes.

5) This level of field occurs at 209.0 meters out from the base of the tower and is considered worst case.

the allowable limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 14.8% of the limit is reached at two meters above the ground at the base of the tower.

Since this level for uncontrolled environments is far below the 100% limit defined by the Commission, the proposed new FM station is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, WWI will post signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, WWI 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.