

MINOR CHANGE APPLICATION
RADIO POWER, INC.
W230BI FM TRANSLATOR STATION
CH 230D - 93.9 MHZ - 0.25 KW
ROCHESTER HILLS, MICHIGAN
May 2010

EXHIBIT D

Radio Frequency Assessment

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 utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed W230BI antenna system will be mounted with its center of radiation 5.6 meters (18.5 feet) above the ground at the tower location and will operate with an effective radiated power of 0.25 kilowatt (250 Watts) in the vertical plane. The tower will be fenced at a distance of not less than 7.0 meters (23.0 feet) out from the base of the tower. At 2.0 meters above the ground at the fence perimeter, the height of an average person, the proposed W230BI antenna system will contribute 0.1635 mw/cm^2 .² Based on exposure limitations for a controlled environment, 16.4% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments at the fence distance of 7.0 meters out from the fence perimeter, 81.8% of the ANSI limit is reached at 2.0 meters above the ground.

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- 1) The contributions of the FM facilities were calculated using the FMModel program. A single bay EPA dipole antenna was used for calculation purposes. In cases where the number of bays of the antenna was known, this data was used in the FMModel program.
 - 2) This level occurs at 7.0 meters out from the base of the tower and is considered worst case.

Since these levels for controlled and uncontrolled environments are below the 100% limit defined by the Commission, the proposed W230BI is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, RPI will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, RPI will reduce the power of the 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.