

MINOR CHANGE APPLICATION
RADIO POWER, INC.
W252CI FM TRANSLATOR STATION
CH 251D - 98.1 MHZ - 0.25 KW (DA)
EAST TROY, WISCONSIN
January 2011

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 W252CI antenna system will be mounted with its center of radiation 8.4 meters (27.5 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. At 2.0 meters above the ground, the height of an average person, at the base of the tower, the proposed W252CI antenna system will contribute 0.1921 mw/cm².² Based on exposure limitations for a controlled environment, 19.2% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 96.1% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

-
- 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 2.0 meters out from the base of the tower and is considered worst case.

Since this level is below the 100% limit defined by the Commission, the proposed W252CI facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, RPI will insure that warning signs are posted on the fence warning of potential radio frequency radiation hazards at the site. In addition, RPI 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.