

MINOR CHANGE APPLICATION
CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.
W274AX FM TRANSLATOR STATION
CH 273D - 102.5 MHZ - 0.250 KW (DA)
ORLANDO, FLORIDA
March 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. The tower on which the proposed W274AX antenna is to be installed is one of two structures in the immediate area. Therefore, the proposed site is located in a defacto tower farm. This study utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed W274AXS antenna system will be mounted with its center of radiation 234.7 meters (770.0 feet) above the ground at the tower location and will operate with an effective radiated power of 0.250 kilowatt (250 watts) in the vertical plane. At 2.0 meters above the ground at the base of the tower, the height of an average person, the proposed W2374AX antenna system will contribute 0.0002 mw/cm².² Based on exposure limitations for a controlled environment, <0.1% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 0.1% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

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- 1) The contributions of the FM stations were calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.
 - 2) This level occurs at 54.0 meters out from the base of the tower and is considered worst case.

Since the levels for both the controlled and uncontrolled environments are less than the 5% limit defined by the Commission in §1.1307(b)(3)(i) and the proposed W274AX antenna is located on a tower in a tower farm, this proposal is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, CFEF will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, CFEF 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.