

MINOR CHANGE APPLICATION
CITY OF LICENSE CHANGE
INSPIRATION TIME, INC.
WCTL FM RADIO STATION
CH 292A - 106.3 MHZ - 0.86 KW
ERIE, PENNSYLVANIA
February 2017

EXHIBIT #2

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 considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed WCTL antenna system is to be mounted with its center of radiation 189.7 meters (622.4 feet) above the ground at the tower location and will operate with an effective radiated power of 0.86 kilowatt in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the WCTL antenna system will contribute 0.000982 mw/cm².² Based on exposure limitations for a controlled environment, 0.098% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 0.5% 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 of field occurs at 50.4 meters out from the base of the tower and is considered worst case.

Since this level for controlled and uncontrolled environments is less than the 5% limit defined by the Commission in §1.1307(b)(3)(i), the proposed WCTL antenna system is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Inspiration Time will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Inspiration Time 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.

In addition to the foregoing Radio Frequency Assessment, the applicant reports that it has determined that the proposed facility will not have a significant environment impact, in that the proposed facilities: will not be located in an officially designated wildlife area or preserve; would not affect listed threatened or endangered species or designated critical habitats; are not likely to jeopardize the continued existence of any proposed endangered or threatened species; are not likely to result in the destruction or adverse modification of proposed critical habitats; would not affect districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture that are listed or are eligible for listing in the National Register of Historic Places; would not affect Indian religious sites; will not be located in a flood plain; will not involve significant change in surface features; and do not involve antenna towers and/or supporting structures equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.