

**MINOR CHANGE APPLICATION/
CORRECTION OF COORDINATES
F.T.G. BROADCASTING, INC.
WWEL (FM) RADIO STATION
CH 280A - 103.9 MHZ - 2.55 KW
LONDON, KENTUCKY
February 2002**

EXHIBIT B

Radio Frequency and Environmental 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 stations and utilizes the appropriate formulas contained in the Bulletin.

Environmental Analysis

The proposed WWEL tower does not involve the use of high intensity white lighting (strobes) in a residential neighborhood. The structure is not located in an officially designated wilderness area or wildlife preserve, nor does it threaten the existence or habitat of endangered species. The facility does not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places, or are eligible for listing, nor does it affect Indian religious sites. Further, the site is not located in a floodplain and will not, to the knowledge of the applicant, require significant change in surface features (wetland fill, deforestation or water diversion) at the time of construction.

Radio Frequency Radiation Study

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin Number 65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations, specifically the co-located WFTG, and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed WWEL antenna system will be mounted with its center of radiation 102.4 meters (336.1 feet) above the ground at the proposed tower location and operate with an effective radiated power of 2.55 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters, the height of an average person, above the ground at the base of the proposed tower, the WWEL antenna system will contribute 0.0102 mw.² Based on exposure limitations for a controlled environment, 1.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the proposed tower. For uncontrolled environments, 5.1% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The co-located WFTG antenna system will operate with a nominal power of 0.69 kilowatts following implementation of its proposed minor change, with a 175.8° radiator.³ A fence will be installed at 3.0 meters out from the base of the WFTG, prior to the implementation of the proposed WWEL antenna system. At this distance, WFTG will

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- 1) The contribution of the FM facility was calculated using the FMModel program. The EPA dipole antenna was used for calculation purposes.
 - 2) This level of field occurs at 27.2 meters out from the base of the tower and is considered worst case.
 - 3) Since WWEL and WFTG will be constructed together, WFTG will not be operational at 1.0 kilowatt while WWEL is operating at the proposed 2.55 kilowatts power level.

contribute, 84.0 V/m and 0.058 A/m. For controlled environments, this represents 13.7% of the electrical field and 3.5% of the magnetic field levels. Since WFTG operates on 1400 kHz, the uncontrolled environment percentages are 14.3% of the electrical field and 3.7% of the magnetic field. Therefore, the electrical field in the uncontrolled environment is considered worst case at 14.3%.

Combining the contributions of WWEL and WFTG, a total of 19.4% of the ANSI limit is reached at the fence perimeter, 2.0 meters above the base of the existing tower. Since this level for uncontrolled environments is far below the 100% limit defined by the Commission, the proposed WWEL facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, F.T.G. Broadcasting, Inc. ("FTG") will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, FTG 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.