

MINOR CHANGE /CORRECTION OF COORDINATES
CONVERT FORMER MAIN TO AUXILIARY
MID-ISLAND BROADCASTING LIMITED PARTNERSHIP
WBZO (FM) RADIO STATION
CH 276A - 103.1 MHZ - 3.0 KW
BAY SHORE, NEW YORK
November 2002

EXHIBIT A

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 existing WBZO 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 did 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 WLIE, and utilizes the appropriate formulas contained in the OET Bulletin.¹

The WBZO antenna system is mounted with its center of radiation 92.8 meters (304.5 feet) above the ground at the existing tower location and operates with an effective radiated power of 3.0 kilowatts in the horizontal and vertical planes (circularly polarized). At two meters, the height of an average person, above the ground at the base of the tower, the WBZO antenna system will contribute 0.0146 mw.² Based on exposure limitations for a controlled environment, 1.5% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 7.3% of the ANSI limit is reached at two meters above the ground at the base of the tower.

The co-located AM station WLIE operates with a nominal non-directional power of 0.25 kilowatt daytime power and 0.204 kilowatt nighttime power on 540 kHz. WLIE also has an outstanding construction permit to construct a second tower to enable directional operation during the day with a nominal power of 1.1 kilowatts. The existing/former WBZO licensed

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- 1) The contribution of the FM facilities was calculated using the FM Model program. The EPA dipole single bay antenna was used for calculation purposes.
 - 2) This level of field occurs at 24.0 meters out from the base of the tower and is considered worst case.

antenna is installed on the older, shorter WLIE tower. The present WLIE tower's electrical height is 62.3°. We have reviewed the contribution of the WLIE facility, based on a maximum power of 1.1 kilowatts to determine which tower was the highest contributor to the radio frequency radiation environment. There is a fence installed with a minimum distance of 2.0 meters from the base of tower. At this distance, WLIE contributes 475.7 V/m and 0.823 A/m at the fence perimeter. The uncontrolled limits for WLIE are 77.5% for the electrical field and 50.5% for the magnetic field.³ As such, the electrical field is the highest level and is considered worst case.

Combining the contributions of WBZO and WLIE, a total of 84.8% of the uncontrolled environment limit is reached at two meters above the ground at the base of the tower. Since this level for uncontrolled environments is below the 100% limit defined by the Commission, the WBZO facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Mid-Island Broadcasting Limited Partnership ("MBI") will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, MBI 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. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

3) The controlled and uncontrolled levels are the same for an AM station operating on 540 kHz.