

MINOR CHANGE APPLICATION
BALDRIDGE-DUMAS COMMUNICATIONS, INC.
KDBH-FM RADIO STATION
CH 247C3 - 97.3 MHZ - 25.0 KW
NATCHITOCHES, LOUISIANA
August 2001

EXHIBIT A

Radio Frequency and Environmental Assessment

Due to the co-location of two FM facilities at the same site, use of the RFR worksheets was not possible. Therefore, 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 FM 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 co-located KZBL, and utilizes the appropriate formulas contained in the OET Bulletin.²

The KDBH-FM six bay antenna system will be mounted with its center of radiation 69.8 meters (229 feet) above the ground at the proposed tower location and operate with an effective radiated power of 25.0 kilowatts in the horizontal and vertical planes (circularly polarized). The KDBH-FM antenna is an Electronics Research LP-6C, rototiller type (FCC Type #3). At two meters, the height of an average person, above the ground at the base of the proposed tower, the proposed antenna system will contribute 0.0247 mw.³ Based on exposure limitations for a controlled environment, 2.5% of the allowable limit is reached at two meters above the ground at the base of the proposed tower. For uncontrolled environments, 12.4% of the limit is reached at two meters above the ground at the base of the tower.

The KZBL six bay antenna system will be mounted with its center of radiation 86.5 meters (283.8 feet)⁴ above the ground at the proposed tower location and operate with an effective radiated power of 25.0 kilowatts in the horizontal and vertical planes (circularly

2) The contributions of the FM facilities were calculated using the FM Model program. The proposed antennas were used for all calculations.

3) This level of field occurs at 20.8 meters out from the base of the tower and is considered worst case.

4) KZBL is authorized to operate with 25.0 kilowatts at 75 meters height above average terrain. The authorized center of radiation is 75 meters AMSL. An application to increase the height above average terrain and center of radiation is being concurrent with the this instant application. Therefore, the proposed KZBL facilities were used for the RFR calculations.

polarized). The KZBL antenna is a Jampro JMPC-6, double V type (FCC Type #2). At two meters, the height of an average person, above the ground at the base of the proposed tower, the proposed antenna system will contribute 0.0259 mw.⁵ Based on exposure limitations for a controlled environment, 2.6% of the allowable limit is reached at two meters above the ground at the base of the proposed tower. For uncontrolled environments, 13.0% of the limit is reached at two meters above the ground at the base of the tower.

Combining the contributions of KDBH-FM and KZBL, a total of 25.4% of the limit is reached at two meters above the ground at the base of the tower. Since this level for uncontrolled environments is far below the 100% limit defined by the Commission, the proposed KDBH-FM is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Baldrige-Dumas Communications, Inc. (BDC) will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, BDC 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.

5) This level of field occurs at 25.6 meters out from the base of the tower and is considered worst case.