

MINOR CHANGE APPLICATION
MAINSTREET BROADCASTING COMPANY, INC.
K47KC LPTV STATION
CH 47- (668-674 MHZ) - 10.0 KW
ROMEO, COLORADO
May 2009

EXHIBIT B

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 utilizes the appropriate formulas contained in the OET Bulletin.

The proposed K47KC Channel 47- low power television/TV translator antenna system will be mounted with its center of radiation 21.8 meters (71.5 feet) above the ground and will operate with an effective radiated power of 10.0 kilowatts in the horizontal plane. As denoted in OET Bulletin #65, Supplement A, Page 31, the typical UHF antenna system has a downward radiation field of 0.1. As such, the K47KC radio frequency radiation calculations were made based on an effective radiated power of 0.1 kilowatt (100 watts). At 2.0 meters above the ground at the base of the tower, the proposed K47KC antenna system will contribute 0.0053 mw/cm². Based on exposure limitations for a controlled environment, 0.2% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For the uncontrolled environment, 1.2% of the limit is reached at 2.0 meters above the ground at the base of the tower.

Since this level for controlled and uncontrolled environments is less than the 5% limit defined by the Commission (§1.1307 (b) (3)(i)), the proposed K47KC facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, MBC will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, MBC 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.