

DIGITAL FLASH-CUT APPLICATION
LAWRENCE F. LOESCH
W59EE LPTV STATION
CH 30 - 566-572 MHZ - 0.275 kW
MANTEO, NORTH CAROLINA
June 2012

EXHIBIT B

Radio Frequency Radiation 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.¹

The proposed digital companion digital antenna system is mounted with its center of radiation 70.0 meters (229.0 feet) above ground and will operate with an effective radiated power of 0.275 kilowatt in the horizontal plane. At 2.0 meters above the ground at the base of the tower, the proposed digital flash-cut on Channel 30 antenna system will contribute 0.0008 mw/cm². Based on exposure limitations for a controlled environment, <0.1% of the allowable ANSI limit is reached at 2.0 meters above the ground. For the uncontrolled environment, 0.2% of the limit is reached at 2.0 meters above the ground.

Since this level for controlled and uncontrolled environments is far less than the 5% limit defined by the Commission in §1.1307(b)(3)(i), the proposed digital facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal

1) The contribution of the FM station was calculated with the FMModel program. The EPA dipole antenna was used for calculations unless otherwise noted.

Communications Commission. Further, LFL will insure that warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, LFL 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.