

MODIFY BMPH-20070119ADH
CUMULUS LICENSING LLC
NEW FM RADIO STATION
CH 266A - 101.1 MHZ - 0.2 KW
PARACHUTE, COLORADO
December 2007

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. The study considers all nearby station, specifically LPFM station KSBP-LP, and utilizes the appropriate formulas contained in the OET Bulletin.¹ The New FM antenna will be mounted on a tower section which is extended above the roof of an existing single story building. As such, all calculations will be based on the elevation above the roof, rather than above ground, as the contributions at ground level would be less than those on roof level.

The proposed New FM antenna system is mounted with its center of radiation 13.7 meters (45.0 feet) above the roof at the tower location and will operate with an effective radiated power of 0.2 kilowatt in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the roof at the base of the tower, the height of an average person, the New FM antenna system will contribute 0.0587 mw/cm².² Based on exposure limitations for a controlled environment,

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- 1) The contributions of the FM facilities were calculated using the FMModel program. A single bay EPA dipole antenna was used for calculation purposes. In cases where the number of bays of the antenna was known, this data was used in the FMModel program.
 - 2) This level of field occurs at 3.0 meters out from the base of the tower and is considered worst case.

5.9% of the allowable limit is reached at 2.0 meters above the roof at the base of the tower. For uncontrolled environments, 29.4% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The proposed KSBP-LP antenna system will be mounted with its center of radiation 16.7 meters (55.0 feet) above the roof at the tower location and will operate with an effective radiated power of 0.1 kilowatt in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the roof at the base of the tower, the height of an average person, the KSBP-LP antenna system will contribute 0.0186 mw/cm^2 .³ Based on exposure limitations for a controlled environment, 1.9% of the allowable limit is reached at 2.0 meters above the roof at the base of the tower. For uncontrolled environments, 9.3% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Combining the contributions of the New FM and KSBP-LP, a total of 38.7% of the limit for uncontrolled environments is reached at 2.0 meters above the roof, at the base of the tower. Since the contribution level for the New FM antenna system is less than 100% of the limit for uncontrolled environments, it is believed the proposed New FM facility is in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Cumulus will also insure that warning signs have been posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Cumulus 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.

3) This level of field occurs at 4.0 meters out from the base of the tower and is considered worst case.