

MODIFY BNPFT-20030828AGD
MILLER COMMUNICATIONS, INC.
W290AY FM TRANSLATOR STATION
CH 290D - 105.9 MHZ - 0.25 KW
SUMTER, SOUTH CAROLINA
May 2007

EXHIBIT C

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 considers all nearby contributing stations, specifically the co-located FM translator stations and applications W227BI, W278A, AP3723 and WKTC-D.¹

The proposed W290AY antenna system will be mounted with its center of radiation 179.8 meters (590 feet) above the ground at the tower location and will operate with an effective radiated power of 0.25 kilowatt (250 watts) in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the proposed W290AY antenna system will contribute 0.00032 mw/cm².² Based on exposure limitations for a controlled environment, <1.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, <1.0% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

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- 1) The contributions of the FM stations were calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.
 - 2) This level occurs at 47.0 meters out from the base of the tower and is considered worst case.

The proposed W227BI antenna system³ will be mounted with its center of radiation 167.6 meters (550 feet) above the ground at the tower location and will operate with an effective radiated power of 0.25 kilowatt (250 watts) in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the proposed W227BI antenna system will contribute 0.00037 mw/cm².⁴ Based on exposure limitations for a controlled environment, <1.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, <1.0% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The authorized W278AV antenna system is mounted with its center of radiation 66.0 meters (216.5 feet) above the ground at the tower location and operates with an effective radiated power of 0.25 kilowatt (250 watts) in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the proposed W278AV antenna system contributes 0.0025 mw/cm².⁵ Based on exposure limitations for a controlled environment, <1.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 1.25% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The proposed AP3723 antenna system will be mounted with its center of radiation 176.0 meters (577 feet) above the ground at the tower location and will operate with an effective

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- 3) An application to change the HAGL of the W227BI antenna has been filed to accommodate guy wire placement.
 - 4) This level occurs at 45.0 meters out from the base of the tower and is considered worst case.
 - 5) This level occurs at 17.0 meters out from the base of the tower and is considered worst case.

radiated power of 0.25 kilowatt (250 watts) in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the proposed AP3723 antenna system will contribute 0.00033 mw/cm².⁶ Based on exposure limitations for a controlled environment, <1.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, <1.0% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The authorized WKTC-D Channel 39 television facility will be mounted at 141.7 meters (465 feet) above the ground at the tower location and will operate with an effective radiated power of 0.7 kilowatt (700 watts) in the horizontal plane. At 2.0 meters above the ground at the base of the tower, the height of an average person, the WKTC-D antenna system will contribute 0.0005 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 at the base of the tower. For the uncontrolled environment limit, 0.1% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Combining the contributions of W227BI, W278AV, W290AY, AP3723 and WKTC-D, a total of less than 6% of the limit for uncontrolled environments is reached at 2.0 meters above the ground at the fence perimeter at the base of the tower. Since this level is far below the 100%

6) This level occurs at 47.0 meters out from the base of the tower and is considered worst case.

limit defined by the Commission, the proposed W290AY facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, MCI will post warning signs at the fence perimeter warning of potential radio frequency radiation hazards at the site. In addition, MCI will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other building/roof users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.