

**MODIFY BNPFT-20030829AVA**  
**CAPSTAR TX LIMITED PARTNERSHIP**  
**W266BC FM TRANSLATOR STATION**  
**CH 266D - 101.1 MHZ - 0.250 KW**  
**TUPELO, MISSISSIPPI**  
**September 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 WKMQ and WTUP, and FM translator W260BJ (which is also filing an application to correct the coordinates of its permit), and utilizes the appropriate formulas contained in the OET Bulletin.<sup>2</sup>

The proposed W266BC antenna system will be mounted with its center of radiation 46.0 meters (151.0 feet) above the ground at the tower location and will operate with an effective radiated power of 0.250 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 W266BC antenna system will contribute 0.0052 mw/cm<sup>2</sup>.<sup>3</sup> Based on exposure limitations for a controlled environment, 0.5% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 2.6% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

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- 2) 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.
- 3) This level occurs at 12.0 meters out from the base of the tower and is considered worst case.

The proposed W260BJ antenna system will be mounted with its center of radiation 46.0 meters (151.0 feet) above the ground at the tower location and will operate with an effective radiated power of 0.250 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 W260BJ antenna system will contribute  $0.0052 \text{ mw/cm}^2$ .<sup>4</sup> Based on exposure limitations for a controlled environment, 0.5% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 2.6% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The authorized WKMQ AM radiator operates with a nominal power of 0.96 kilowatt on 1060 kHz with an electrical height of  $77.6^\circ$ . The tower is fenced, not allowing access any closer than 2.0 meters (6.5 feet) out from the base of the tower. At this distance, the WKMQ AM facilities contribute an electrical field of 218.4 V/m and a magnetic field of 0.561 A/m. For both controlled and uncontrolled environments, this results in an electrical field contribution of 35.6% and a magnetic field contribution of 34.4%. Since the contribution of the electric field is the highest, it is considered worst case.

The authorized WTUP AM radiator operates with a nominal power of 1.0 kilowatt on 1490 kHz with an electrical height of  $109.1^\circ$ . The tower is fenced, not allowing access any closer than 2.0 meters (6.5 feet) out from the base of the tower. At this distance, the WTUP AM facilities contribute an electrical field of 65.5 V/m and a magnetic field of 0.335 A/m. As the

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4) This level occurs at 12.0 meters out from the base of the tower and is considered worst case.

station operates on a frequency above 1340, the contributions for controlled and uncontrolled environments differ. For controlled environments, this results in an electrical field contribution of 10.7% and a magnetic field contribution of 20.5%. For uncontrolled environments, this results in an electrical field contribution of 11.8% and a magnetic field contribution of 22.8%. Since the contribution of the magnetic field is the highest in the uncontrolled environment, it is considered worst case.

Combining the contributions of W260BJ, W266BC, WKMQ and WTUP, a total of less than 62.4% of the uncontrolled limit is reached at the 2.0 meters above ground at the fence perimeter. Since this level is far below the 100% limit defined by the Commission, the proposed W260BJ facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Capstar will post warning signs in the vicinity of the tower, warning of potential radio frequency radiation hazards at the site. In addition, Capstar will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other users, as necessary, to protect persons having access to the site, tower, or antenna from radio frequency radiation in excess of FCC guidelines.