

**MINOR CHANGE APPLICATION**  
**JOHN M. DOWDY**  
**W261CU FM TRANSLATOR STATION**  
**CH 261D - 100.1 MHZ - 0.25 KW**  
**POPLARVILLE, MISSISSIPPI**  
**April 2017**

**EXHIBIT C**

**Radio Frequency Radiation Study**

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This utilizes the appropriate formulas contained in the OET Bulletin.

The proposed W261CUE antenna will be mounted at 118.9 meters (390.0 feet) above ground level and will operate with 0.25 kilowatt of power in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the proposed tower, the height of an average person, the W261CU antenna system will contribute 0.0007 mw (worst case).<sup>1</sup> 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 proposed tower. For uncontrolled environments, 0.35% of the ANSI 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 §1.1307(b)(3)(i) of the Commission's rules, the proposed W261CU antenna system is

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1) This level of signal falls 32.0 meters from the base of the tower and is considered worst case.

believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Dowdy will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Dowdy 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.