

**MINOR CHANGE APPLICATION**  
**AMENDMENT TO BNPFT-20030314BAH**  
**CONCORD BROADCASTING, LLC**  
**NEW FM TRANSLATOR STATION**  
**CH 222D - 92.3 MHZ - 0.16 KW ND**  
**LACONIA, NEW HAMPSHIRE**  
**July 2013**

**EXHIBIT D**

**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 stations and utilizes the appropriate formulas contained in the OET Bulletin.

The proposed new FM translator's antenna will be mounted with its center of radiation 8.0 meters (26 feet) above the ground and will operate with an effective radiated power of 0.13 kilowatt in the horizontal and vertical planes (circularly polarization). The new translator will use a Shively 6812 (EPA Type VI) single bay antenna. At 2.0 meters above the base of the tower, the height of an average person, the new FM translator's antenna system will contribute  $0.06323 \text{ mw/cm}^2$ .<sup>1</sup> Based on exposure limitations for a controlled environment ( $1.0 \text{ mw/cm}^2$ ), 6.3% of the allowable limit is reached at 2.0 meters above the ground at the base of the tower. Based on exposure limitations for an uncontrolled environment ( $0.2 \text{ mw/cm}^2$ ), 31.6% of the allowable limit is reached at the base of the tower.

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1) This level of field occurs at 6.0 meters out from the base of the tower and is considered worst case.

Since this level for controlled and uncontrolled environments is less than the limit defined by the Commission in §1.1307(b)(3)(i) of the rules, the proposed new FM translator's antenna system is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Concord will verify that warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Concord 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