

MINOR CHANGE APPLICATION
BLUEBERRY BROADCASTING, LLC
WQSS (FM) RADIO STATION
CH 273B - 102.5 MHZ - 20.5 kW
CAMDEN, MAINE
January 2015

EXHIBIT B

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 study considers all nearby contributing stations, specifically the co-located WMCM, and utilizes the appropriate formulas contained in the OET Bulletin.

The proposed WQSS facility will utilize a Shively six bay antenna system mounted with its center of radiation 86.2 meters (282.8 feet) above the ground at the proposed tower location and operate with an effective radiated power of 20.5 kilowatts 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 proposed antenna system will contribute 0.0098 mw¹ (worst case) 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 proposed tower. For uncontrolled environments, 4.9% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

1) This level of signal falls 29.0 meters from the tower base and is considered worst case.

WMCM is co-located with and shares the antenna with WQSS. The WMCM facility will utilize a Shively six bay antenna system mounted with its center of radiation 86.2 meters (282.8 feet) above the ground at the proposed tower location and will operate with an effective radiated power of 16.0 kilowatts 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 proposed antenna system will contribute 0.0077 mw^2 (worst case). Based on exposure limitations for a controlled environment, 0.8% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the proposed tower. For uncontrolled environments, 3.9% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Adding the contributions of WQSS and WMCM, a total of less than 10% of the allowable limit is reached at the tower base. Since this level for uncontrolled environments is well below the 100% limit defined by the Commission, the proposed WQSS facility is believed to be in compliance with the radio frequency radiation exposure limits as is required by the Federal Communications Commission. Further, Blueberry will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Blueberry will reduce the power of the proposed 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. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

2) This level of signal falls 29 meters from the tower base and is considered worst case.