

**MINOR CHANGE APPLICATION/  
CUMULUS LICENSING LLC  
WFAS-FM RADIO STATION  
CH 280A - 103.9 MHZ - 0.98W  
BRONXVILLE, NEW YORK  
November 2007**

**EXHIBIT B**

**Radio Frequency Assessment**

Due to the co-location of WFAS-FM with another FM station, the RF worksheets associated with FCC Form 301 could not be used to certify compliance with the radio frequency radiation rules. 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 co-located station WFUV, and utilizes the appropriate formulas contained in the OET Bulletin.<sup>1</sup>

The existing tower on which the WFAS-FM antenna is to be mounted is located atop an existing building. The tower (and associated appurtenances) extend 43.0 meters (141 feet) above the cooling tower located on the roof, and 56.1 meters (184 feet) above the roof of the building. Access to the roof is restricted to authorized personnel only. Roof access is only possible through a locked door. Radio Frequency Radiation warning signs are posted at the access points. Calculation for both controlled and uncontrolled exposure will be made at roof level, for a worst case review.

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1) The contributions of the FM stations are calculated with the FMModel program. The EPA dipole antenna was used for calculations unless otherwise noted.

The WFAS-FM antenna system will be mounted with its center of radiation 53.3 meters (175.0 feet) above the roof at the tower location and will operate with an effective radiated power of 0.98 kilowatts in the horizontal and vertical planes (circularly polarized). The WFAS-FM antenna system is to be a Dielectric DCRM, two bay, half wavelength spaced antenna system (EPA/FCC Type #7). At 2.0 meters, the height of an average person, above roof level, the WFAS-FM antenna system will contribute  $0.0024 \text{ mw/cm}^2$ .<sup>2</sup> Based on exposure limitations for a controlled environment, 0.2% of the allowable ANSI limit is reached at 2.0 meters above the roof. For uncontrolled environments, 1.2% of the ANSI limit is reached at 2.0 meters above the roof.

The WFUV antenna system is mounted with its center of radiation 45.7 meters (149.8 feet) above the roof at the tower location and operates with an effective radiated power of 47.0 kilowatts in the horizontal and vertical planes (circularly polarized). The WFUV antenna system is a Dielectric DCRM, ten bay, half wavelength spaced antenna system (EPA/FCC Type #7). At 2.0 meters, the height of an average person, above roof level, the WFUV antenna system contributes  $0.0094 \text{ mw/cm}^2$ .<sup>2</sup> Based on exposure limitations for a controlled environment, 0.7% of the allowable ANSI limit is reached at 2.0 meters above the roof. For uncontrolled environments, 3.4% of the ANSI limit is reached at 2.0 meters above the roof.

Combining the contributions of WFAS-FM and WFUV, a total of 4.6% of the uncontrolled limit is reached 2.0 meters above the roof. Since the contribution level for the

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- 2) This level of contribution occurs at 93.0 meters out from the tower and is considered worst case.
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tower site is below the 100% limit defined by the Commission, the proposed minor change for WFAS-FM is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Cumulus will insure that warning signs are posted in the vicinity of the tower (on the roof and roof access points) warning of potential radio frequency radiation hazards at the site. In addition, Cumulus 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.