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NEW JERSEY PUBLIC BROADCASTING AUTHORITY

LICENSEE OF W43CH

BELVIDERE, NEW JERSEY

FAC ID# 48484

FCC FILE # BLTT-20060602AAE

APPLICATION FOR A DIGITAL FLASH CUT

ON CH 43

(MINOR CHANGE)

EXHIBIT 12

July 5, 2006

NEW JERSEY PUBLIC BROADCASTING AUTHORITY

LICENSEE OF W43CH BELVIDERE, NJ

FCC FILE # BLTT-20060602CH

APPLICATION FOR A DIGITAL FLASH CUT ON CH 43

EXHIBIT 12 – RFR STATEMENT

There are no AM stations within 3.2 km of the W43CH site. The instant application is excluded under 1.1306. There are no physical changes proposed to the existing pre 1986 tower or immediate surrounding area. Using the procedures outlined in OET Bulletin 65, Edition 97-01 and specifically Appendix A, Table 1 and Equation 10, Page 21, I have evaluated the RFR energy from the antenna system of W43CH as follows:

W43CH is the only station at this general location required to be considered by 47 CFR 1.1307(b). However, as shown below, W43CH will contribute less than 5% of the allowable RFR energy to persons on the ground and outside the secured and marked tower structure.

W43CH W43CH is proposing to flash cut to digital operation on Channel 43 utilizing a maximum ERP of 0.6 kilowatts average power with a directional antenna and horizontal polarization. The Channel 43 Scala SL-8 transmitting antenna is a high gain unit with an elevation power gain of 10x side mounted with a C/R 39 meters up the tower. With the resulting high elevation gain, the RFR energy at steep angles below the horizon are expected to be at least 10 dB below that of the main lobe. Utilizing Appendix A, Table 1 the maximum occupational/controlled exposure level at CH 43 is 2.2 mW/cm^2. Using Equation 10, Page 21 of OET-65, the distance to the 2.2 mW/cm^2 contour is 1.0 meter. For general population/uncontrolled environment the maximum exposure level is 360 uW/cm^2. Again using

Equation 10, the calculated distance to the 440 uW/cm^2 contour is 2.2 meters. Since the base of the antenna is approximately 34 meters above the ground, the height of the structure limits the possible excessive radiation values to at least 31.8 meters above the ground.

Again using Equation 10, the predicted RFR energy levels at 2 meters above ground is calculated at 2.2 uW/cm^2 or 0.7% of the FCC allowable for the general public/uncontrolled environment per FCC OET-65.

CONCULSIONS ON RFR ANALYSIS

Therefore the level of RFR energy from proposed W43CH at all points on the ground are below that required for protection of both the employees and the general public as required by ANSI 95.1-1992 or FCC OET 65, Edition 97-01. Since W43CH is calculated to produce less than 5% of the OET-65 levels anywhere that the general public or untrained individuals can have access, the W43CH facility is exempt from RFR requirements as to the sum of any other contributions from this multi-user site.

At those locations where RFR energy fields in excess of FCC guidelines are predicted to be encountered (up on the tower and very near the station's transmission antenna), signs and protective devices secure the area affected from the general public. With respect to direct employees of this licensee, OSHA RFR guidelines will be observed. Contractors and other outside workers potentially exposed to such areas on the tower shall be advised of the hazard by posted notices or other means. The station will reduce power or cease operation, if necessary, in order to protect workers on the tower.

With these procedures in place, we believe the proposed W43CH digital operation is in compliance with the RFR energy requirements of 47 CFR 1.1307(b).