



W278BM(FX) 103.5 FM Winston-Salem, NC

Facility ID No. 139568

This minor modification application is for a construction permit to change the antenna, decrease the antenna height, and increase the effective radiated power while employing a directional antenna pattern. The applicant proposes to use a Nicom BKG-77 antenna with its slightly directional antenna pattern as shown in the exhibits attached. The application provides information and maps to satisfy applicable FCC rules and regulations.

Exhibit 10 shows that this is one of two Fill-In Translators for WPOL AM. As shown the 60 dBu contours of the two translators do not overlap. Exhibit 10 also shows the prediction for the FCC's FM Model program showing that the maximum power density as proposed will be $0.176 \mu\text{W}/\text{cm}^2$ 156 meters from tower base. This is considerably less than 1% of the maximum permissible exposure level for uncontrolled public areas according to the FCC's OET Bulletin 65. The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and

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uncontrolled environments). The applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

Exhibit 13 A addresses the protection of third adjacent station WTQR 281C Winston Salem NC. WTQR places a signal strength of 82.4 dBu at the translator tower site. Thus the interfering signal level from the translator will be 122.4 dBu. That signal will extend 74.83 meters from the translator antenna which is placed 102 meters above the ground. There are no occupied tall buildings near the tower. No interference will occur to WTQR.

The applicant also certifies that the FM translator's entire 1mV/m coverage contour is contained within the 25-mile radius centered at the commercial AM primary station's transmitter site. Further, the proposed facility complies with all of the FCC applicable rule sections, as shown in the exhibits.

 

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