

MONTROSE BROADCASTING CORPORATION

FM Broadcast Translator W227AB
Endicott, NY
Ch. 234FT (94.7 MHz.)
0.25 kW, DA, 0m AAT

ENGINEERING SUPPLEMENT

Minor Technical Amendment

BPFT-20120201AKS

This Engineering Supplement, along with attached amended exhibits, has been prepared on behalf of Montrose Broadcasting Corporation, licensee of FM broadcast translator W227AB, Endicott, NY, fill-in translator for Montrose Broadcasting Corporation's licensed station WPEL-FM, Ch. 243B (96.5 MHz.), Montrose, PA. By this filing, the licensee seeks to amend its pending application, File No. BPFT-20120201AKS, which requests that W227AB be permitted to migrate from Channel 227FT (93.3 MHz.) to Channel 234FT (94.7 MHz.) and that this migration be treated as a minor change due to the translator's pending displacement by a full-facility authorization. The referenced application also proposes a change in Effective Radiated Power and installation of a new directional antenna.

Since the filing of the original application for this proposed minor change, both the management of Montrose Broadcasting Corporation and engineers from this office have held informal discussions with Commission staff and representatives of FM broadcast station WIYN, Channel 234A, Deposit, NY, a full-facility station that would be co-channel on the frequency to which W227AB would migrate. Although the original engineering proposal submitted with application BPFT-20120201AKS would appear to satisfy the allocations criteria embodied in Section 74.1204(a) of the Rules, concern was raised that the proximity of the proposed modified W227AB to WIYN might adversely impact some WIYN listeners residing outside the WIYN protected 60dBu contour and prompt objections under Section 74.1204(f) of those same rules. For that reason, Montrose Broadcasting Corp. chooses to amend its engineering proposal.

Under the amended engineering proposal specified in the revised Section III-A and the attached exhibits, W227AB would retain its licensed (and earlier proposed) antenna site and continue to propose operation on Channel 234FT. The existing supporting structure would be retained, and the applicant would continue to specify the same two-element composite directional antenna, albeit somewhat modified.

The principal technical changes embodied in this amendment would reorient the two (2) Kathrein Scala CA2-FM/CP/RM antennas to major lobe azimuths of 220°T and 330°T, respectively, a horizontal separation of 110 degrees. At these orientations, the resulting W227AB pattern radiation (on Channel 234FT) greatly suppresses signal strength toward WIYN and provides enhanced protection of the WIYN listening area. As shown on the attached exhibits, the amended design retains a 60dBu F(50,50) signal strength over Endicott, NY, the community of license. Aside from areas to the east (where a second WPEL-FM "fill-in" translator exists), there is no significant reduction in service when compared to the pre-amended proposal.

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Amended technical figures included with this submission include:

- FIGURE 1 Amended: A revised vertical plan sketch of the proposed modified W227AB translator antenna, depicting the proposed composite directional antenna at its amended orientation;
- FIGURE 3 Amended: A polar graph and tabulation of relative field for the amended modified pattern;
- FIGURE 4A Amended: A computer-generated FM allocations map demonstrating this amended proposal's compliance with all applicable contour protection requirements, as well as those governed by Section 74.1232 rules imposing limitations on the contours of "fill-in" translators for primary station licensees on commercial channels;
- FIGURE 4B Amended: A detailed allocation map demonstrating this amended proposal's compliance with greater specificity;
- FIGURE 5 Amended: A computer-generated coverage map depicting the 60dBu contours of this amended proposal and those of co-owned FM translator W292DL, Binghamton, NY;
- FIGURE 6 Amended: A computer-generated coverage map demonstrating this amended proposal's continued ability to provide 60dBu signal strength over 100 per cent of the Village of Endicott, NY.

Given that NO CHANGE is proposed in Effective Radiated Power or antenna height AGL, the environmental studies detailed in the original Engineering Statement submitted with BPFT-20120201AKS continue to be accurate and are incorporated by reference.

Furthermore, the request for waiver of Section 74.1233 of the Rules relating to this application's eligibility to be treated as a minor change continues with this amendment; and the Commission is directed to the Engineering Statement submitted with the original BPFT-20120201AKS and the Preclusion Study, APPENDIX A, Pages 1 through 9, also tendered with the original filing, for justification thereof. APPENDIX B of that application is also included by reference.

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