

TECHNICAL SUMMARY

TELEVISION STATION WNPX-TV  
COOKEVILLE, TENNESSEE  
CHANNEL 32 1000 KW (H), 428.7 KW (V) 427 M HAAT

1. The instant application is for an expanded facility for the authorized facility of WNPX-TV, Cookeville, TN (Channel 32).<sup>\*</sup> By means of this application the maximum effective radiated power (ERP) of WNPX-TV will be increased to 1000 kW. There are no other changes proposed.

2. The proposed facility is compliant with the ‘largest station in the market’ provision of Section 73.622(f)(5) of the FCC Rules. It is proposed to operate on Channel 32 with a maximum directional ERP of 1000 kW and an antenna height above average terrain (HAAT) of 427 meters. These facilities exceed the normal maximum permissible facilities specified in Section 73.622(f)(8)(i) of the FCC Rules. However, the proposed facilities have been calculated in accordance with the largest station provision of Section 73.622(f)(5) of the FCC Rules. Specifically, the largest station in the Nashville market is WSMV-TV, Nashville, TN, Channel 10, which is licensed to provide noise-limited 36 dBu, f(50,90) service to an area of 40,310 square kilometers.<sup>†</sup> The proposed WNPX-TV operation is predicted to provide noise-limited 41 dBu, f(50,90) service to an area of 31,600 square kilometers.<sup>‡</sup> Therefore, the proposed WNPX-TV facility is compliant with the largest station provision of the FCC Rules.

3. The instant proposal is compliant with the interference protection requirements of the FCC Rules. The results the FCC’s *TVStudy* analysis are attached hereto as an exhibit. It is noted that use of a higher resolution terrain profile increment of 0.5 km is requested for the *TVStudy* analysis.

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<sup>\*</sup> See FCC File No. 0000027355.

<sup>†</sup> WSMV-TV is authorized for operation with a non-directional ERP of 42.4 kW and an antenna HAAT of 415 m.

<sup>‡</sup> Clarification of the largest station provision is provided in the *Report and Order and Further Notice of Proposed Rule Making* in MM Docket No. 00-39 at paragraphs 73-74.