

TECHNICAL SUMMARY

TELEVISION STATION WEDW/WZME (DTS)
STAMFORD/BRIDGEPORT, CONNECTICUT
DTS1: CHANNEL 21, 200 KW (H), 60 KW (V), 219 M HAAT
DTS2: CHANNEL 21, 210 KW (H), 84 KW (V), 428 M HAAT

1. The instant application for modification of a distributed transmission system (DTS) construction permit* was prepared for WEDW, Stamford, CT, which also is the channel share host of WZME, Bridgeport, CT. By means of this application it is proposed to make a modification to the DTS construction permit facilities of WEDW/WZME.

2. Specifically, with respect to DTS2, during the final antenna mounting design work, it was discovered that the antenna radiation center height will need to be located 11 m lower than originally planned to meet the mechanical requirements of the existing structure. Accordingly, this modification application is to reduce the height of the DTS2 antenna by 11 m from what is now authorized. In addition to this change, the proposed maximum ERP of DTS2 has been increased to 210 kW to compensate for the reduction in antenna height. There are no changes to DTS1.

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 cell size of 1 km with a higher resolution terrain profile increment of 0.1 km is requested for the *TVStudy* analysis. As detailed in the *TVStudy* analysis, the baseline records to be used for the WEDW facility when considering interference caused to the WNEP-TV and WNYT-TV facilities must be manually associated in the *TVStudy* analysis process. Using the proper baseline record with respect to each station, the predicted interference to both the WNEP-TV and WNYT-TV records are compliant with the 0.5% de minimis requirement.

4. The instant proposal is compliant with the city coverage requirements of Stamford, in the case of WEDW, and of Bridgeport, in the case of WZME. This is demonstrated in the Predicted Coverage Contours exhibit.

* FCC File No. 0000177225.

5. The proposed DTS system is compliant with the requirements of Section 73.626 of the FCC Rules relating to distributed transmission systems, as amended effective on April 22, 2021. There is no change to the previously authorized reference point for the WEDW/WZME DTS system. However, the calculation of the largest station in the market has been revised to reflect the latest FCC database information. Specifically, the largest station in the market is WJLP, Middletown Township, NJ, Channel 3, which operates with a nominal ERP of 26.5 kW and an antenna height above average terrain (HAAT) of 340 m. See FCC File No. 0000163350. A map showing the largest station in the market calculation is included with the instant amendment. Based on this, the calculated reference distance for the WEDW/WZME DTS system is 119.0 km based on the 'largest station in the market' criterion of the FCC Rules.

6. The DTS Compliance Map exhibit for the WEDW/WZME DTS system demonstrates contour compliance with the contour limits established in Section 73.626 of the FCC Rules, as amended. Specifically, the proposal meets the F(50,50) contour extension limit distance of 173.2 km and the proposal meets the F(50,10) contour extension limit distance of 285.9 km. These contour extension limit distances are based on the calculation for the 'largest station in the market' reference as shown in the DTS Compliance Map exhibit.

7. The combined coverage of the proposed DTS system meets the coverage requirement of the applicant's authorized service area, which is the WEDW originally licensed facility on Channel 49 under FCC File No. 0000074518.