

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION WPXW-TV
MANASSAS, VIRGINIA
CHANNEL 35 800 KW (MAX-DA) 257 M HAAT

1. The instant application is the initial 90-day ‘Checklist’ application for the reassigned facilities of WPXW-TV, Manassas, VA (Channel 35). The proposed WPXW-TV facility will employ its existing top-mounted broadband antenna with no physical changes in the installation. The existing antenna is a Dielectric model TUP-O4-12-2, which will operate on Channel 35. However, operation of the antenna on Channel 35 will result in an altered azimuth pattern due to the shift in frequency.

2. It is noted that the antenna radiation center height above average (HAAT) was re-calculated to the value in agreement with that given by the FCC’s *TVStudy* analysis software.

3. As a result of the altered Channel-35 azimuth pattern, the maximum effective radiated power (ERP) was reduced to 800 kW to maintain the predicted service area of the proposed facility within 1% of the WPXW-TV baseline reassignment facility listed in the FCC’s Closing and Channel Reassignment (CCR) *Public Notice*. See attached *TVStudy* Analysis.

4. The proposed facility is compliant with the 95% population service requirement relative to the CCR baseline facility as outlined in the CCR.

5. The instant proposal is compliant with the principal city coverage requirements of Manassas. This is illustrated in the Predicted Coverage Contours exhibit (Figure 1).