

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION WGPX-TV
BURLINGTON, NORTH CAROLINA
CHANNEL 26 82 KW (H), 35.1 KW (V) 239 M HAAT

1. The instant application is the initial 90-day ‘Checklist’ application for the reassigned facilities of WGPX-TV, Burlington, NC (Channel 26). The proposed WGPX-TV facility will replace a side-mounted antenna with a top-mounted pylon with an increase in the antenna radiation center height from 210.3 m AGL to 238 m AGL. There will be no change in the overall structure height, since the new antenna will fit within the aperture space of an unused top-mounted antenna to be removed from the top of the tower.

2. The ground elevation of the transmitter site was updated to agree with the antenna structure registration data. With the change in antenna radiation center height above ground and the ground elevation data, the new antenna radiation center height above mean sea level is specified as 463.6 m. In addition, it is noted that the antenna radiation center height above average (HAAT) was re-calculated considering all changes to the value in agreement with that given by the FCC’s *TVStudy* analysis software.

3. The proposed nominal non-directional effective radiated power was adjusted to 82 kW to account for the increase in antenna radiation center height. There is no extension of the predicted service area relative to the baseline reassignment facility listed in the FCC’s Closing and Channel Reassignment (CCR) *Public Notice*. Also, the proposed facility is compliant with the 95% population service requirement relative to the CCR baseline facility as outlined in the CCR.

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