

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION WXIN(TV)
INDIANAPOLIS, INDIANA
CHANNEL 22 535 KW (H), 133.8 KW (V) 304 M HAAT

1. The instant application is the initial 90-day ‘Checklist’ application for the reassigned facilities of WXIN(TV), Indianapolis, IN (Channel 22). The proposed WXIN(TV) facility will employ the existing top-mounted broadband antenna with no physical changes in the installation. The existing antenna is a Dielectric model TUM20-O4-12/48H-1-R-T, which will operate on Channel 22. However, operation of the antenna on Channel 22 will result in an altered azimuth pattern due to the shift in frequency.
2. The ground elevation of the transmitter site was updated to agree with the antenna structure registration data. With that change, the antenna radiation center height above mean sea level is specified as 552.9 m. In addition, 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-22 azimuth pattern, the maximum effective radiated power (ERP) was reduced to 535 kW to maintain the predicted service area of the proposed facility within 1% of the WXIN(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 Indianapolis. This is illustrated in the Predicted Coverage Contours exhibit (Figure 1).