

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
CLASS A STATION WFPA-CD
PHILADELPHIA, PENNSYLVANIA
CHANNEL 35 6.58 KW (DA)

1. The instant application is the initial 90 day 'checklist' application for the reassigned facilities of WFPA-CD, Philadelphia, Pennsylvania (Ch. 35). It is proposed to operate with facilities that are identical to the facilities listed for WFPA-CD in the FCC's *Closing and Reassignment Public Notice* (CRP). Specifically, it is proposed to replace the existing side-mounted Scala 4DR-16-2HW with an identical side-mounted Scala 4DR-16-2HW antenna. Furthermore, it is proposed to operate with the assigned ERP of 6.58 kW and there will be no change in the antenna radiation center height (428.2 m AMSL). There will also be no change in the overall structure height.

2. As the proposed facilities are identical to the facilities listed for WFPA-CD in the CRP, there will be no extension of the predicted service area relative to the baseline reassignment facility listed in the CRP. As indicated in the attached FCC *TVStudy* analysis, the proposed facility is compliant with the 95% population service requirement.

3. As also indicated in the *TVStudy* analysis, the proposal complies with the FCC's interference requirements based on the FCC's *TVStudy* program. A cell size of 2.0 km and a profile resolution of 1.0 points/km were utilized for the *TVStudy* analysis.

4. RFR Compliance: The proposed facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna will be located 338.9 meters above ground level. The total DTV ERP is 6.58 (horizontal). A worst case vertical plane relative field value of 1.0 is presumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is 1.94 uW/cm^2 which is 0.49% of the FCC's recommended limit of 399.3 uW/cm^2 for channel 35 for an uncontrolled environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a formal RFR protection protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measure will be taken to assure worker safety with respect to RFR exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.