

Clearance to WHPE-FM

This instant translator application clears all allocation constraints of Section 74.1204. On first glance, it appears that interference is created to WHPE-FM, High Point, NC. However, Section 74.1204(d) instructs us:

“In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.”

WHPE-FM places 76.2 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 76.2 dBu signal produces an interfering contour of 116.2 dBu. This interfering contour extends a maximum distance of 171 meters in the main lobe of the signal. The antenna that is being proposed is a Shively 2-bay ½ wave spaced 6812C antenna. This antenna significantly focuses the 116.2 dBu interfering contour over the heads of any nearby resident. The nearest the 116.2 dBu interfering contour comes to the ground is 25.8 meters. This occurs at a distance of 91.5 meters from the tower base. This is generated by the 30 degree azimuth of the antenna. Therefore, the interfering contour does not touch the ground and cannot be received by any listener.

Please find exhibits indicating the Vertical Radiation Pattern of the proposed antenna from the antenna manufacturer and a graph of the 116.2 interfering contour in relation to the ground.

In conclusion, based on the foregoing explanation showing that no persons will receive interference, it is thought this application is in compliance with Section 74.1204 using Section 74.1204(d).