

Clearance to WMAG and WMKS

This instant translator application clears all allocation constraints of Section 74.1204. On first glance, it appears that interference is created to WMAG and WMKS, both allocated at 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.”

WMAG places 100.6 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 100.6 dBu signal produces an interfering contour of 140.6 dBu. This interfering contour extends a distance of 10.3 meters from the antenna which is located 103.9 meters AGL on the tower. This interference area never touches the ground.

WMKS places 86.6 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 86.6 dBu signal produces an interfering contour of 126.6 dBu. This interfering contour extends a maximum distance of 51.3 meters from the antenna which is located 103.9 meters AGL on the tower. This interference area never touches the ground.

In conclusion, based on the foregoing explanation showing that no persons will receive interference because the interference area never touches the ground, it is thought this application is in compliance with Section 74.1204 using Section 74.1204(d).