

## **Clearance to WPZS (FM)**

**This instant translator application clears all allocation constraints of Section 74.1204. On first glance, it appears that interference is created to second-adjacent channel station WPZS (FM) Indian Trail, 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.”*

**WPZS (FM) places 67.2 dBu over the proposed translator site. Adding the 40 dBu U/D radio to the 67.2 dBu signal produces an interfering contour of 107.2 dBu. This interfering contour extends a distance of 483.2 meters in the main lobe of the signal. The antenna that is being proposed is an array of two horizontally polarized Kathrein CL-FM antennas skewed 76 degrees with a center of radiation of 247 meters above ground. This antenna significantly focuses the 107.2 dBu interfering contour over the heads of any nearby resident. Please see the drawing that follows. The closest the interfering contour comes to the ground is 32.3 meters. This is generated by the 40 degree azimuth of the antenna. Therefore, the interfering contour cannot be received by any listener.**

**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).**

## 107.2 dBu Interfering Contour Scala CL-FM (Horizontal Polarization)

