

Clearance to WDSY-FM and WAOB-FM

This instant translator application clears all allocation constraints of Section 74.1204. On first glance, it appears that interference is created to WDSY-FM and WAOB-FM. 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.”

WDSY-FM places 100.8 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 100.8 dBu signal produces an interfering contour of 140.8 dBu. This interfering contour extends a distance of 10.1 meters from the antenna.

WAOB-FM places 79.2 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 79.2 dBu signal produces an interfering contour of 119.2. Katherine-Scala, the manufacturer of the antenna array was contacted and they provided the vertical radiation pattern. This pattern was used to calculate the precise location of the 119.2 dBu interfering contour. The attached graph indicates that this interference stays in the air. The nearest it comes to the ground is 76.8 meters.

In conclusion, based on the foregoing explanation showing that no persons will receive interference because both of the interfering contours remains in the air and does not come close to the ground, it is thought this application is in compliance with Section 74.1204 using Section 74.1204(d).

Bromo Communications, Inc.