

Clearance to WMDH-FM and W278BY

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 WMDH-FM, New Castle, IN and third-adjacent channel Translator W278BY Muncie, IN. 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.”

WMDH-FM places 89.5 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 89.5 dBu signal produces an interfering contour of 129.5 dBu. This interfering contour extends a maximum distance of 23.2 meters from the antenna, which does not touch the ground. Therefore, there is no population within the interfering contour.

Co-located Translator W278BY places 156.7 dBu over the proposed translator site. Adding 40 dBu U/D to the 156.7 dBu signal produces an interfering contour of 196.7 dBu. This interfering contour extends a distance of less than 1 meter from the antenna and does not touch the ground. Therefore there is no population within the interfering contour.

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).