

SECTION 74.1204(d) STUDY

This narrative exhibit demonstrates that the predicted interference to the 60 dBu contour of the third-adjacent W297AV, Hazleton, PA is allowable under the rules stated in 47 CFR 74.1204(d).

In support thereof this Applicant states the following:

1. W297AV, Hazleton, PA, third adjacent channel facility to this translator proposal, is protected from interference within its 60 dBu contour from the associated interference contour (based on 47 CFR 74.1204(a)(1); using the FCC F(50/10) curves) which need be 40 dBu greater than the associated coverage contour (W297AV) that would encompass the proposed translator antenna site and that contour which is 40 dBu greater than the associated coverage contour.
2. This translator's antenna location is located within the 60 dBu contour (based on 73.333 F(50/50)) of W297AV, Hazleton, PA. This proposal will use the predicted desired to undesired coverage method to determine the appropriate interference contour that need be used with regard to W297AV. Included as an attachment (W300BT Hazleton Green Desired to Undesired) is a map showing that the 65.3 dBu coverage contour of W297AV encompasses the proposed antenna site along with the entire proposed 105.3 dBu interference contour. As the proposed 105.3 dBu interference contour is 40 dBu greater than the 65.3 dBu contour of W297AV then this contour is the appropriate interference contour for this analysis and it is clearly evident that interference will only occur within this interference contour for this proposed translator.
3. Given this translator's requested effective radiated power of 18.6 watts, Directional; the predicted 105.3 dBu interference contour for this

proposal would be very small. At any HAAT value, the maximum 105.3 dBu contour distance for this proposal is 0.16 kilometers.

4. This proposed translator antenna is to be situated 45 meters above ground on a 60.7 meter tall radio tower. Enclosed as W300BT Hazleton Green Vertical Radiation CA2 Slant45-2, is a study showing the Vertical Pattern (downward radiation) of the proposed CA2 Slant45-2 Array. Based on this study, no part of the 105.3 dBu contour ever reaches the ground level. As such, no interference would be caused at any location other than atop the actual radio tower. The rule in 47 CFR 74.1204(d) states "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 factors as may be applicable." In this particular case, as shown in this exhibit, it is clearly evident that there is a "lack of population" as defined in 47 CFR 1204(d) thus allowing this translator to operate at this proposed location.

For the foregoing reasons this Applicant submits that the predicted interference to W297AV, Hazleton, PA is allowable under Section 74.1204(d) of the Commission's rules. Furthermore, grant of this application is in the public interest as it would increase the coverage area of a radio facility in this area and impose no hardship to the referenced facility, W297AV, Hazleton, PA.

By: Kevin Fitzgerald, Chief Engineer