

TECHNICAL SUMMARY

FM TRANSLATOR STATION W286DL
AGUADILLA, PUERTO RICO
CHANNEL 286

The attached allocation study tabulation exhibit summarizes the allocation study for the proposed facility. It is noted that the intermediate-frequency (I.F.) related separation requirements are met for the instant proposal.

The tabulation exhibit lists the results of a numerical analysis of the potential for contour overlap for all nearby co-channel, first-, second-, and third-adjacent-channel facilities. For the purposes of the numerical study, the maximum HAAT and maximum ERP values for each station record were used in determining the maximum distance in any direction to the predicted protected and interfering contours

Facilities that were short based on the numerical study were evaluated based on a contour analysis. The attached allocation analysis map exhibit demonstrates compliance with the contour overlap requirements with respect to station: WIOC (Lic. and C.P.), Ponce, PR (Ch. 286B).

It is noted that station W285DL holds a construction permit to relocate to San Juan and to change to Channel 232. See FCC File No. BPFT-20160729ALU. Therefore, it is respectfully requested that the instant proposal be conditioned on the licensing of W285DL on its new channel at its new location pursuant to its construction permit.

The contour overlap requirements are met with respect to all stations with the exception of second-adjacent-channel station, WFDT, Aguada, PR (Ch. 288A). A waiver of section 74.1204 of the FCC Rules is requested to the extent necessary since it is demonstrated that no actual interference will occur with respect to WFDT.

Based on the undesired-to-desired (U/D) signal strength interference ratio methodology, which is permitted by the FCC (per *Living Way Ministries, Inc.*, 17 FCC Rcd 17054, 17056 (2002), it has been determined that no actual interference would occur due to lack of population under Section 73.1204(d).

Specifically, the calculated f(50,50) desired field strength of WFDT at the proposed transmitter site is 104 dBu. Using the 40 dB U/D ratio contained in Section 73.1204 of the FCC Rules, the proposed f(50,10) undesired interfering signal is 144 dBu.

As demonstrated in the interference analysis tabulation, the predicted interference zone with respect to the WFDT facility extends to no greater than 7 meters from the transmitting antenna in any direction;* it does not reach ground level; and it is completely devoid of population, buildings and publicly accessible roads. Therefore, the proposal meets the requirements of Section 74.1204(d) of the FCC Rules for such circumstances as clarified in the *Living Way Ministries, Inc., Memorandum Opinion and Order*, Released: September 9, 2002.

* This is based on the worst-case assumption of 1.0 relative field at all elevation angles from the antenna.