

RADIOTECHNIQUE®

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Engineering Report
Exhibit 16 (amended)
Multiple Translators
W284BW, Franklin Township, NJ
November 2014

W284BW is proposed to increase coverage substantially, and change directional pattern because it no longer is required to protect WPDI, Hazlet, NJ, as that station has changed frequency, and a previously pending translator application has been dismissed. This increase, coupled with a recent upgrade of co-owned W264BT results in overlap of the 60 dbu contours. This report establishes the technical need for the contour overlap of these stations, as required by §74.1232(b) of the FCC rules.

W284BW proposes to repeat the signals of WQHT, New York, NY which is also the primary station for W264BT which is owned by the same licensee as W284BW. The W264BT 60 dbuV contour overlaps the proposed contour by 17.4% of the proposed W284BW 60 dbuV. This might be considered “substantially” the same area.

Attached is a map showing the areas involved. The service areas of both translators are highly populated, with over 1000 persons per square km. As such neither translator can be expected to provide service out to the 60 dbuV contour.

Additionally, substantial co-channel interference is received by W264BT.

WLEV produces a 51 dbu F(50,10) interfering contour nearly to the W264BT site, limiting service over a substantial portion of the service area to the 70 dbuV contour or higher. The attached map shows the expected area of received interference. The overlap of the proposed 60 dbu with the area of interference free service for W264BT is only 5.1% of the proposed service area.

As a result of the interference, and inability to provide service all the way to the translator 60 dbuV contour due to urban noise, the practical amount of common service area is minimal.

The technical need has been demonstrated. Due to interference to W264BT and noise the overlap of the actual service areas is quite small. This increase will reduce the area between the two translators where listeners are be unable to receive either translator due to interference or high noise levels.