

This report is prepared to support a long form application for an Auction Window 83 translator, BNPF20030314AXY. This application is a singleton application which is not subject to competitive bidding, and it is inside the Atlantic City, NJ market. This application is filed to locate the translator on the WWSI(TV) tower.

Minor Change

This is a minor change application to change the transmitter location, antenna height, power and primary station. The 60 dbu contour of this proposal overlaps the 60 dbu contour of the tech box application as shown in Exhibit 10.

LPFM Preclusion

Exhibit 1 is a report showing that the proposed facility precludes no LPFM stations in the Atlantic City market grid, and that there can be no preclusion in adjacent grids.

Channel Allocations

Exhibit 13 Figure 1 is a co-channel allocations map showing that there is no overlap of protected contours of other stations' and applications' protected contours and the interference contours specified in § 74.1204 of the FCC rules. Figure 2 is a map showing the allocations contours for adjacent channels, and for IF Spacing with WMMR(FM) Philadelphia. These maps show there is no overlap or spacing issue with any station excepting second adjacent channel stations WMGM(FM) Atlantic City, NJ and WRFF(FM) Philadelphia, PA.

Figure 3 shows compliance with respect to these class B, Second Adjacent channel stations.

In a letter granting Jersey Shore Broadcasting Corporation's application BPFT-950830TD (September 26, 1996 1800B3-JDB) the FCC stated that the Ratio method is suitable for translator applicants to demonstrate lack of interference for application purposes.

The 54 dbu F(50,50) contours of WMGM and WRFF (dark blue) are shown extending well beyond the proposed facility. The WRFF 62 dbu F(50,50) and the WMGM 58 dbu F(50,50) contour is shown in light blue, extending well beyond the proposed transmitter site.

Protection of WMGM is therefore the limiting case. The second and third adjacent channel protection ratio is 40 db, so it is required that the 58 dbuV contour of WMGM be protected from the proposed 98 dbu (aqua) contour of the translator.

Since the distance to this contour is below the minimum distances for the F(50,10) and F(50,50) curves the signal level existing on the ground in the vicinity of the translator was calculated using inverse distance, with an adjustment for ground reflections, as has been accepted by the FCC in recent applications. Exhibit 13 Figure 3 is a tabulation and chart of these calculations showing the location above ground at which the proposed translator will produce an interfering contour. This table and chart shows that the 98 dbu signal is more than 5 meters from the ground at its closest approach.

The area in the immediate vicinity of the tower is uninhabited, and there are no tall buildings within 1.5 km of the antenna location.

In conclusion, the proposed translator meets all the overlap requirements of § 74.1204 of the FCC rules and regulations.

Environment

Exhibit 17 is a study showing that the proposed translator is excluded from environmental processing according to § 1.1306 of the FCC rules. The RF exposure worksheet is included to show that there is no location where the radiation from the translator exceeds exposure standards for general public.

Engineer's Statement

This is to certify that this report has been prepared by myself. It is correct and accurate of my own knowledge, except where stated otherwise, and where that is so, the information is correct to the best of my knowledge and belief.

I further certify that I am a Licensed Professional Engineer in the State of New Jersey, and



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Engineering Report

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Edward A. Schober

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the Commonwealth of Pennsylvania with a BSEE degree from the Newark College of Engineering of NJIT, and that I am, and have been for over thirty years, regularly engaged in the practice of radio engineering with the firm of Radiotechniques Engineering, LLC, with offices at 402 Tenth Avenue, Haddon Heights, NJ. I am a member of the AFCCE, Senior member of the IEEE and SBE and hold a FCC General Radiotelephone Operator License. My qualifications are a matter of record with the FCC.

A handwritten signature in blue ink that reads "Edward A. Schober".

28 August 2013

Edward A. Schober, PE