

This report is prepared to support a long form application for a Auction Window 83 translator, BNPF20030311AAC. 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 and first adjacent 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 second and third adjacent channels. There is no overlap with any station except class B, Second Adjacent channel station WAYV(FM) Atlantic City, NJ. Figure 3 is a showing with respect to WAYV(FM).

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) contour of WAYV (dark blue) is shown extending well beyond the proposed facility. The WAYV 68 dbu F(50,50) contour is shown in light blue, extending well beyond the proposed transmitter site. The second and third adjacent channel protection ratio is 40 db, so it is required that the 68 dbuV (thin blue) contour of WAYV be protected from the

proposed 108 dbu (not shown) 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 108 dbu signal is more than 25 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 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

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Engineering Report

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Edward A. Schober

August 2013

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.



27 August 2013

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Edward A. Schober, PE