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WHYY INCORPORATED

WILMINGTON, DE

PERMITTEE OF WDPB-DT CHANNEL 44

SEAFORD, DELAWARE

FCC Facility ID #72335

FCC FILE No. BPEDT-20030316AAN

MINOR CHANGE

APPLICATION FOR A MODIFICATION OF CP

TO CONSTRUCT A DTV FACILITY

ON CHANNEL 44

ENGINEERING EXHIBIT 34

March 29, 2004

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WHYY INCORPORATED
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SEAFORD, DELAWARE
FCC FILE No. BPEDT-20000316AAN

ENGINEERING EXHIBIT 34

1. BACKGROUND

WHYY, Incorporated is the Permittee of WDPB-DT) on Channel 44 in Seaford, Delaware, (File No. BPEDT-20030316AAN). The instant minor modification application is to specify a different directional transmitting antenna as a result of an exhaustive bidding process, and to increase the ERP from 26.3 KW to 98 KW. The DTV facility requested herein complies with the requirements of Sections 73.622 and 73.623 of the FCC Rules, and all items except item 1c on the certification checklist are answered in the affirmative. Exhibit 34 discusses the impact of maximization.

2. REVISED FACILITIES REQUESTED

The instant minor change application requests facilities on DTV Channel 44 with a maximum directional horizontal average ERP of 98 kilowatts with an HAAT of 196 meters utilizing a PSI Model PSILPT16BSLC-44 directional antenna oriented to 70 degrees True. The proposed WDPB-DT, Channel 44 azimuth and elevation patterns and

tabulations are included in Exhibit 33. HAAT was determined using the EDX 3 second database and software.

Figure 5a-6 shows the WDPB-DT proposed 48 and 41 dBu, F(50,90) DTV service contours. Distances to these contours were calculated using the procedures in 73.625(b)(1).

3. DTV MAXIMIZATION STUDY

The transmitting antenna proposed herein is a PSI Model PSILPT16BSC-44 with 0.75 degree of electrical beam tilt and with the pattern oriented to 70 degrees True. The azimuth and elevation pattern tabulations and plots are included in Exhibit 33.

This office using the V-Soft on Line DTV Sun Workstation software had previously performed a DTV maximization study and a Class A protection study at 200 KW ERP with no increase in caused interference to any station. This program uses the same FORTRAN code as used by the FCC MM Bureau and has been verified to provide results in agreement with the FCC code.

The results of this study showed that in every case the change in interference to the studied stations was less than +2.0% and thus this application meets the requirements for de-minimis interference to full service stations as required by 73.623.

