

**Larry H. Will, P.E.**

**Broadcast Engineering**

---

1055 Powderhorn Drive  
Glen Mills, PA 19342-9504

PH (610) 399-1826  
E-Mail lhwill@verizon.net

**SONSHINE FAMILY TELEVISION CORPORATION**

**LICENSEE OF WBPH-DT**

**DTV CHANNEL 9**

**BETHLEHEM, PENNSYLVANIA**

**FAC ID# 60850**

**FCC FILE # BPCDT-20080619ALA  
BMPCDT-20100105AAH**

**MINOR AMENDMENT TO A PENDING APPLICATION FOR A MINOR  
MODIFICATION OF CP TO CHANGE TRANSMITTER LOCATION,  
HAAT, AND DIRECTIONAL ANTENNA PATTERN**

**REQUEST FOR EXPEDITED PROCESSING AND GRANT OF THIS  
INSTANT APPLICATION SIMULTANEOUSLY WITH BMPEDT-  
20100107ACX FILED BY NEW JERSEY PUBLIC BROADCASTING  
AUTHORITY AND WITH BBCDT-20100111AER FILED BY WGAL  
HEARST CORPORATION**

**EXHIBIT 45A**

**January 29, 2010**

**SONSHINE FAMILY TELEVISION CORPORATION**

**LICENSEE OF WBPH-DT**

**DTV CHANNEL 9**

**BETHLEHEM, PENNSYLVANIA**

**FAC ID# 60850**

**FCC FILE # BPCDT-20080619ALA  
BMPCDT-20100105AAH**

**REQUEST FOR PROCESSING AND GRANT OF THIS INSTANT APPLICATION  
SIMULTANEOUSLY WITH BMPEDT-20100107ACX FILED BY NEW JERSEY  
PUBLIC BROADCASTING AUTHORITY AND WITH BPCDT-2020111AER FILED BY  
WGAL HEARST CORPORATION**

**EXHIBIT 45A**

**INTRODUCTION – EXPIDITED PROCESSING REQUEST**

The instant application, as amended herein, is based on signed interference agreements with New Jersey Public Broadcasting Authority (NJPBA), applicant for increased digital facilities for WNJB-DT, BMPEDT-20100107ACX and with WGAL Hearst Corporation (HEARST), applicant for increased facilities for WGAL-DT as filed in BPCDT-20100111AER<sup>1</sup>. This Exhibit respectfully requests that this instant application processing be expedited, considered with, and simultaneously granted with the above two applications. The attached interference agreements have been negotiated by the parties solely to offer a solution which, in the whole, clearly would serve the public interest by providing much needed stronger digital television field strengths within the existing stations analog coverage areas, especially when considering the difficulties, already made well aware to the commission staff, observed by many broadcasters returning to VHF high band have discovered with regards to reliable digital reception, particularly with indoor reception.

---

<sup>1</sup> Copies of the signed Agreements are included with this amendment.

## **SONSHINE-HEARST AGREEMENT**

With respect to WGAL-DT, the separate SONSHINE-HEARST Interference Agreement was completed considering the impact of the separate currently pending applications, and SONSHINE believes that the calculated interference levels already agreed to between SONSHINE and HEARST include all effects of the proposed changes by WABC-DT, Channel 7, NYC at 26.9 kW ERP and by WUSA-DT, Channel 9, Washington, DC's soon to be filed application to increase power to 52 kW<sup>2</sup>.

## **SONSHINE-NJPBA AGREEMENT**

With respect to WBPH-DT, the SONSHINE-NJPBA Interference Agreement attached hereto relied on data from the public CDBS as of November 9, 2009. A review of those L-R studies showed that it did not include WGAL-DT's proposed operation at 32.2 kW because at the time of analysis in November 2009, an application for the WGAL-DT increased power had not yet been filed. At that time and as reflected in the attached SONSHINE-NJPBA Agreement, Appendix 1, the studies for interference did not include the interim operation of WNJB at the 21.7 kW "interim" level because the parties believed that operation would be for a relatively short period of time, probably less than 30 days<sup>3</sup>. Thus the data in the signed Agreement essentially reflects the interference values with WNJB-DT at its final operating power at 40.82 kW.

In the process of preparing the SONSHINE application BMPCDT-20100105AAH, it was noted by this office that NJPBA filed for a construction permit, BMPEDT-20100107ACX for 21.72 kW, the WNJB "interim" operation and for a digital STA BDSTA-20100107ADL for 40.82 kW, the WNJB "final" operation. The actual L-R calculated predicted interference to WNJB-DT with proposed "interim" operation at 21.72 kW from the currently authorized WBPH-DT CP (BPCDT-20080619ALA) was calculated on December 29, 2009 as 0.9029%

---

<sup>2</sup> WUSA-DT currently operates under STA BDSTA-20091218ACS at 52 kW in order to conduct interference and coverage measurements with respect to WGAL-DT and WBPH-DT. SONSHINE consented to the proposed testing as has been reported to the commission by DFP.

<sup>3</sup> Normally the L-R study process does not consider digital STA data.

while the proposed interference to WNJB from the 80.6 kW application (BMPCDT-20100105AAH) is now 0.8688% both of which exceed the signed Agreement.

In the event the Commission requires a modification to the SONSHINE-NJPBA signed Agreement, Sonshine and NJPBA are discussing terms for a revised Interference Agreement and desires that the Commission realize the complexity of this instant multi-station situation and consider the numbers of calculations and the resulting flood of constantly varying interference totals<sup>4,5</sup> should be weighed favorably against the various participants' diligence in trying to offer a complete solution which, in the whole, clearly would serve the public interest by providing much needed stronger digital television field strengths within the existing stations analog coverage areas, especially when considering the difficulties, already made well aware to the commission staff, observed by many broadcasters returning to VHF highband have discovered with regards to reliable digital reception.

## **SONSHINE-DFP AGREEMENT**

The SONSHINE-DFP Agreement regarding WUSA-DT and WBPH-DT will be submitted by both parties as soon as it is completed and signed.

## **OTHER ITEMS**

And finally, based on recent DTV field measurements, a portion of which are already completed, on behalf of the Detroit Free Press (DFP) with respect to WUSA-DT, Channel 9, WGAL-DT, Channel 8, and WBPH-DT, Channel 9, and which are expected to be finalized and

---

<sup>4</sup> SONSHINE notes that the WABC-NJPBA-WGAL Hearst Interference Agreement already filed by NJPBA and WABC-DT discusses a WABC-DT "future operation" at 34 kW ERP. Since this possible but not assured scenario may not actually materialize and is currently not on file, its effect on NJPBA is not considered in the current SONSHINE-NJPBA Agreement. It is expected that a further increase in power by WABC-DT will again reduce the NJPBA WNJB-DT "before" population, causing yet another required adjustment in interference ratios between NJPBA and SONSHINE.

<sup>5</sup> Pending a GRANT of this instant amended application, SONSHINE also is planning to file for an STA to begin interim operation under its currently authorized CP (BPCDT-20080619ALA) at such facilities that do not extend the 36 dBu digital service contour beyond that of the authorized CP at 89 kW ERP.

submitted to the Commission in a reasonable period of time with regards to a proposed permanent power increase application by DFP for WUSA-DT, the use of the Longley-Rice method, as it applies to grid based service and interference calculations is, more often than not, **at least at locations beyond the radio horizon**, reporting service where none exists and also predicted interference where none exists<sup>6</sup>.

## IN SUMMARY

Sonshine has stated before and continues to believe that, in this instant case, the net improvement of the reception of five major stations in three markets far outweighs the small amount of calculated received interference. SONSHINE requests that its pending application BMPCDT-20100105AAH, as amended herein, receive expedited processing and granted simultaneously with those of HEARST for WGAL-DT and by NJPBA for WNJB-DT.

---

<sup>6</sup> For example, the FCC digital television interference criteria is specified as 10% of the locations 10% of the time. On an annualized basis 10% of the time equates to 876 hours per year, or 73 hours per month, or **2.4 hours per day**, numbers that off air monitoring by the undersigned cannot support when compared to the Longley-Rice calculations in areas beyond line of site.