

STATEMENT OF JOHN E. HIDLE, P.E. IN SUPPORT OF A REQUEST FOR SPECIAL TEMPORARY AUTHORIZATION WPVI-TV - PHILADELPHIA, PENNSYLVANIA CH. 6 - 56 kW - 332 meters HAAT

Prepared for: ABC, Inc.

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

GENERAL

This office has been authorized by ABC, Inc., Licensee of WPVI-TV, channel 6, Philadelphia, Pennsylvania, to prepare this statement and the associated exhibits, in support of a request for a Special Temporary Authorization (STA) to increase WPVI-TV's authorized Effective Radiated Power (ERP) from 34.0 kW to 56 kW. WPVI-TV seeks temporary authorization to implement its proposed STA ERP increase to 56 kW on an interim basis in order to institute a field strength measurement program to document the multitued of reception problems reportedly experienced by potential viewers in the Philadelphia Designated Market Area (DMA). Expeditious Commission action on the instant request would be most appreciated.

PURPOSE OF REQUEST

As explained herein, WPVI-TV seeks the proposed STA increase in ERP in order to assist in its efforts to overcome serious reception problems that its viewers have

suffered, and continue even to this day to suffer, since the June 12, 2009 DTV transition date. A very substantial body of serious reception problems suffered by digital television stations broadcasting on the VHF channels is well-documented, both before and especially after June 12, 2009. The most serious of the documented reception problems appears to be suffered by the digital television stations that are broadcasting on any one of the low-VHF channels.

Shortly after the DTV transition on June 12, 2009, both WPVI-TV and another digital television station broadcasting on channel 6, WRGB in Schenectady, New York, filed applications for new DTV construction permits seeking increases in ERP, in a mutual attempt to ameliorate the very serious reception deficiencies that their viewers were suffering, and to try to improve the likelihood of potential viewers being able to receive usable signals from the stations. WPVI-TV's application, BPCDT-20090617ADQ, and WRGB's application, BPCDT-20090622ABV, were both granted on March 16, 2011, each construction permit authorizing equal ERPs of 30.2 kW. Subsequently, WPVI-TV obtained authorization to relocate to a different tower 249 meters away, with a lower HAAT, and corresponding slight increase in ERP to 34.0 kW.

WRGB's license application, BLCDT-20110428ABT, was granted on August 15, 2011. WPVI-TV's license application, BLCDT-20111019ACJ, was granted on February 17, 2012. WPVI-TV's authorized ERP increase was implemented in October 2011, but there remain many reception problems, many of which appear to result from lack of sufficient signal level at many viewers' locations. The applicant believes that most of these remaining reception problems could be solved by the requested increase in ERP.

STATEMENT OF JOHN E. HIDLE, P.E. WPVI-TV - PHILADELPHIA, PENNSYLVANIA

PAGE 3

Therefore, for the stated reasons, WPVI-TV herein proposes to increase its authorized

ERP, and herein requests special temporary authorization to do so for the stated purpose

of field signal strength and ambient noise measurements.

REQUEST FOR WAIVERS

To any extent necessary, WPVI-TV also requests waivers of Sections 73.622(f)(7)(ii)

and 73.622(f)(5) of the Commission's rules. The Media Bureau previously has approved

WPVI-TV's applications for construction permits to operate facilities at power levels in

excess of the Zone I limits, which applications specified facilities that would define WPVI-

TV as the largest station in the Philadelphia DMA. See FCC File Nos. BPCDT-

20090617ADQ, BPCDT-20110525ACX, and BMPCDT-20110831ABM. As explained

herein, WPVI-TV anticipates that the enhanced facilities that are proposed herein will

enable it to resolve most, if not all, of its remaining reception problems. Accordingly, it is

in the public interest to further waive Sections 73.622(f)(7)(ii) and 73.622(f)(5) to the extent

necessary for the grant of this request for STA.

AUTHORIZED FACILITY

WPVI-TV's current authorization, BLCDT-20111019ACJ, allows a facility with an

ERP of 34.0 kW at a Height Above Average Terrain (HAAT) of 330 meters. WPVI-TV's

authorized antenna is a Dielectric Model CBR-O3FMB-6/18H-1 channel 6 omni-directional

circularly polarized antenna on the tower bearing registration number 1035474, with its

radiation center line located 320.7 meters above ground level, and 330 meters above

average terrain. The authorized antenna employs an electrical beam-tilt of 1 degree below

the horizontal plane.

STATEMENT OF JOHN E. HIDLE, P.E. WPVI-TV - PHILADELPHIA, PENNSYLVANIA PAGE 4

PROPOSED STA FACILITY

For the purposes of this instant request for temporary authorization WPVI-TV proposes to use, in lieu of its currently authorized antenna, its formerly licensed antenna, as was authorized in BLCDT-20110503ACH. WPVI-TV's previously licensed antenna is an RCA Model TF-6BH mounted at a HAAT of 332 meters, on a tower bearing FCC registration number 1023152, with its radiation center line located 327.1 meters above ground level. The formerly licensed antenna employs no electrical beam tilt.

ALLOCATION CONSIDERATIONS

A study was performed, using the FCC's software, *tv_study*, v. 2.2.3, to determine if the instant request for STA is predicted to any cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant request is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations, except WRGB, channel 6, Schenectady, New York, which does not object to the 1.69% new interference predicted in the study for the STA operation.

AM Radio Station Considerations

The study shows that WPVI-TV's formerly authorized, and proposed STA, broadcast tower site is located 0.34 kilometers from directional daytime AM radio station WNWR, 1540 kHz, 50 kW, DA-D, licensed to Philadelphia, Pennsylvania. WPVI-TV has previously demonstrated that the facilities authorized by BPCDT-20110525ACX will have effectively no impact on the directional antenna radiation pattern of AM radio station WNWR. See

STATEMENT OF JOHN E. HIDLE, P.E. WPVI-TV - PHILADELPHIA, PENNSYLVANIA PAGE 5

Letter of Barbara A. Kreisman, Chief, Video Division, to Susan L. Fox & Howard F. Jaeckel (Oct. 4, 2011), (MB 2011) ("October 2010 Letter"); Letter of Barbara A. Kreisman, Chief, Video Division, to Howard Jaeckel & John W. Zucker (Aug. 31, 2010), 25 FCC Rcd 12562 (MB 2010); see also FCC File No. BPCDT-20110525ACX, Engineering Statement at 4; Opposition to Petition for Rescission and Informal Objection at Exhibit C (Technical Statement). The instant proposal seeks only to increase WPVI-TV's ERP at its existing previously licensed site, and does not propose any physical modification of its transmission system at all. It is, therefore, inconceivable that implementation of the instant proposal could result in any measurable effect on WNWR. See October 2010 Letter at 2.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.684 of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the National Geophysical Data Center Thirty Second Point Database (TPG-0050) as prescribed in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 contains the predicted DTV Noise Limited (28 dBu) contour and the predicted principal community (35 dBu) contour. The predicted 35 dBu contour entirely encompasses the principal community, Philadelphia, Pennsylvania.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast technical facilities are co-located with, or located within 10 km of the proposed WPVI-TV transmitter/antenna site. The applicant recognizes its responsibility to remedy complaints of interference which might result from this proposal in accordance with applicable Rules.

RADIO FREQUENCY IMPACT

The FCC's guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines define a maximum permissible exposure (MPE) level for occupational or "controlled" situations, and for "uncontrolled" environments that apply in all other cases that might affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), provides assistance to determine whether FCC-regulated facilities comply with guidelines for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. OET Bulletin No. 65 contains the technical information necessary to evaluate compliance with the FCC's policies and guidelines. The Maximum Permitted Exposure (MPE) level for broadcast facilities that operate on a frequency between 30 MHZ and 300 MHZ is 200 microwatts per centimeter squared (µW/cm²) for an "uncontrolled" environment, and is

STATEMENT OF JOHN E. HIDLE, P.E. WPVI-TV - PHILADELPHIA, PENNSYLVANIA PAGE 7

1000 microwatts per centimeter squared (μ W/cm²) for a "controlled" environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHZ and 1500 MHZ, primarily UHF DTV stations, is determined for an "uncontrolled" environment by dividing the operating frequency in MHZ by 1.5, and is determined for a "controlled" environment by dividing the operating frequency in MHZ by 0.3.

The predicted emissions of WPVI-TV operating on channel 6 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WPVI-TV, which will operate on television channel 6 (82-88 MHZ), the MPE is 200 microwatts per centimeter squared (μ W/cm²) in an "uncontrolled" environment and 1000 μ W/cm² in a "controlled" environment. The proposed WPVI-TV facility will operate with a maximum ERP of 62.9 kW using a horizontally polarized omni-directional transmitting antenna with a centerline height of 327.1 meters above ground level (AGL). Considering the proposed antenna's vertical plane relative field factor of 0.38 the WPVI-TV facility is predicted to produce a power density at two meters above ground level of 2.87 μ W/cm², which is 1.44% of the FCC guideline value for an "uncontrolled" environment, and 0.288% of the FCC's guideline value for "controlled" environments.

There are three other full-service DTV stations, and eight FM radio stations that are authorized to be located at the site, or within the relevant proximity of 315 meters. The total percentage of the ANSI value at the proposed site, including the cumulative radiation based on actual field factors, from all post-transition broadcast stations within the relevant proximity is 15.23% of the limit for "uncontrolled" environments, and 3.05% of the limit for "controlled" environments. (See Appendix A)

STATEMENT OF JOHN E. HIDLE, P.E. WPVI-TV - PHILADELPHIA, PENNSYLVANIA PAGE 8

OCCUPATIONAL SAFETY

The applicant is committed to the protection of station personnel and/or tower

contractors working on the tower support structure, or in the vicinity of the proposed WPVI-

TV antenna, by reducing power and/or ceasing operation during times of maintenance of

the transmission systems, when necessary, to ensure the proper protection of persons who

might be required to perform their assigned tasks in this "controlled" environment.

SUMMARY

WPVI-TV contends that its instant request for Special Temporary Authorization

(STA) seeking to increase its authorized ERP from 34.0 kW to 62.9 kW, on a temporary

interim basis as described herein, is in the public interest, and, except in the instance(s)

where waiver(s) exist, and/or are requested, complies with the Rules, Regulations, and

Policies of the Federal Communications Commission. This statement and the attached

exhibits were prepared by me, or under my direct supervision, and are believed to be true

and correct to the best of my knowledge and belief.

DATED: November 24, 2017