



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
CONSTRUCTION PERMIT
WABC-TV - NEW YORK, NEW YORK
AUXILIARY FACILITY AT EMPIRE STATE BUILDING
CH. 7 - 26.2 kW - 360 meters HAAT**

Prepared for: AMERICAN BROADCASTING COMPANIES, 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 AMERICAN BROADCASTING COMPANIES, INC., Licensee of WABC-TV, channel 7, New York, New York, to prepare this statement, FCC Form 301, Section III-D, and the associated exhibits, in support of an application for construction permit. It is proposed herein for WABC-TV to utilize an existing panel type antenna that was installed at the Empire State Building for use as an auxiliary antenna, to accommodate channels 7, 9, 11 and 13. WABC-TV now seeks to utilize this antenna, a Dielectric Model THA-O4SP-1H/4UD2SP-1-H-M, as a part of a new auxiliary channel 7 digital facility at its licensed main site at the Empire State Building. The proposed auxiliary facility's Effective Radiated Power (ERP) is 26.2 kW with a Height Above Average Terrain (HAAT) of 360 meters.

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PURPOSE OF APPLICATION

WABC-TV seeks the proposed auxiliary facility for use when conditions necessitate the cessation of operation of WABC-TV's main antenna. WABC-TV seeks the proposed 26.2 kW ERP in order to maximally conform the predicted coverage area of the proposed auxiliary facility with the predicted coverage area of its licensed main facility. In compliance with Section 73.1675 of the Commission's rules, the licensee has determined that the instant proposal will, to a reasonable degree, approach its goal of providing comparable coverage to its viewers when necessary to use the proposed WABC-TV auxiliary facility.

AUTHORIZED FACILITY

WABC-TV's current authorization permits a facility with an ERP of 34 kW at a Height Above Average Terrain (HAAT) of 405 meters. WABC-TV's authorized antenna is a Dielectric Model THA-O4-2H/8UD2SP-2-HM channel 7 omni-directional horizontally polarized antenna. The antenna is mounted on the Empire State Building in New York City, FCC registration number 1007048, with its radiation center line located 403 meters above ground level. The authorized antenna employs an electrical beam-tilt of 3 degrees below the horizontal plane.

PROPOSED AUXILIARY FACILITY

WABC-TV seeks authorization for an auxiliary facility with an ERP of 26.2 kW at a HAAT of 360 meters. The proposed former analog antenna is a Dielectric Model THA-O4SP-1H/4UD2SP-1-H-M omni-directional horizontally polarized hi-VHF antenna designed to accommodate channels 7, 9, 11 and 13. It is mounted on the Empire State Building in

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New York City, FCC registration number 1007048, with its radiation center line located 358 meters above ground level. The antenna employs no beam tilt below the horizontal plane. The manufacturer's elevation plane radiation pattern is shown in figures 1 and 2, and is tabulated in figure 3.

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. Figure 4 contains the predicted DTV Noise Limited (36 dBu) contours for both the main and auxiliary facilities. It is clear that the predicted 36 dBu auxiliary contour remains wholly within, the predicted 36 dBu contour for the main facility. The instant proposal therefore complies with Section 73.1675(a)(1)(iii) of the FCC's Rules.

. BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast technical facilities are co-located with, or located within 10 km of the proposed WABC-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

Effective October 15, 1997 the FCC adopted modified guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines 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 establish maximum permissible exposure (MPE) levels for both occupational or "controlled" environments, as well as for "uncontrolled" environments such that apply in cases that could 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" (DA 04-319, February 6, 2004), provides assistance in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with guideline limits for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. Bulletin No. 65 provides the technical data required to evaluate compliance with the FCC's policies and guidelines.

The FCC's Maximum Permitted Exposure (MPE) level established for "uncontrolled" environments is 0.2 milliwatts per centimeter squared (mW/cm^2) when applied to broadcast facilities operating between 30 MHz and 300 MHz, and for broadcast facilities operating between 300 MHz and 1500 MHz, primarily UHF TV stations, the MPE is derived from the formula, (frequency (MHz)/1500). The MPE level that is established for occupational, or

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“controlled” environments is 1.0 milliwatts per centimeter squared (mW/cm^2) for operations between 30 MHz and 300 MHz, and for broadcast stations operating between 300 MHz and 1500 MHz the MPE is derived from the formula, $(\text{frequency (MHz)}/300)$.

The proposed WABC-TV auxiliary operation at the Empire State Building will comply with the FCC’s rules and guidelines pertaining to human exposure to electromagnetic energy. The Empire State Building has established policies and procedures and has defined certain areas as controlled areas where access by all persons is restricted unless certain facilities cease operation, change antennas or reduce power. A procedure to notify tenants of a required shutdown has been developed. As a lessee, WABC-TV is subject to the Empire State Building’s RF Safety Program which is modified periodically as facility modifications occur.

The predicted emissions of WABC-TV’s proposed auxiliary facility operating on channel 7 must be considered, in addition to predicted emissions from all other proposed and existing stations at the site. For WABC-TV, which operates on television channel 7 (174-180 MHz), the MPE is 0.200 milliwatts per centimeter squared (mW/cm^2) in an “uncontrolled” environment and 1.000 mW/cm^2 in a “controlled” environment. The proposed WABC-TV auxiliary facility will operate with a maximum ERP of 26.2 kW using a horizontally polarized omni-directional transmitting antenna with a centerline height of 357 meters above ground level (AGL). Considering the antenna’s vertical plane relative field factor of 0.3 the WABC-TV facility is predicted to produce a power density at two meters above ground level of 0.00062 mW/cm^2 , which is 0.31% of the FCC guideline value

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for an “uncontrolled” environment, and 0.062% of the FCC’s guideline value for “controlled” environments. (See Appendix A)

There are eleven other full-service DTV stations, and eighteen 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 a field factor of 0.3 for TV stations and 1.0 for FM stations, from all post-transition television and FM radio broadcast stations within the relevant proximity is 49.09% of the limit for “uncontrolled” environments, and 9.82% of the limit for “controlled” environments.

OCCUPATIONAL SAFETY

In accordance with its obligations as a lessee at the Empire State Building to comply with the building’s RF Safety Program, 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 WABC-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.

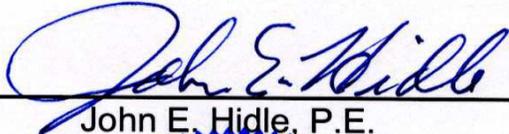
SUMMARY

It is submitted that the instant application for construction permit for WABC-TV seeking to use an existing former analog antenna for an auxiliary facility with an ERP of 26.2 kW at a HAAT of 360 meters, as described herein, except in the instance(s) where

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waiver(s) exist, and/or are requested, complies with the Rules, Regulations, and Policies of the Federal Communications Commission. This statement, FCC Form 301, Section III-D, 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: September 25, 2013



John E. Hidle, P.E.



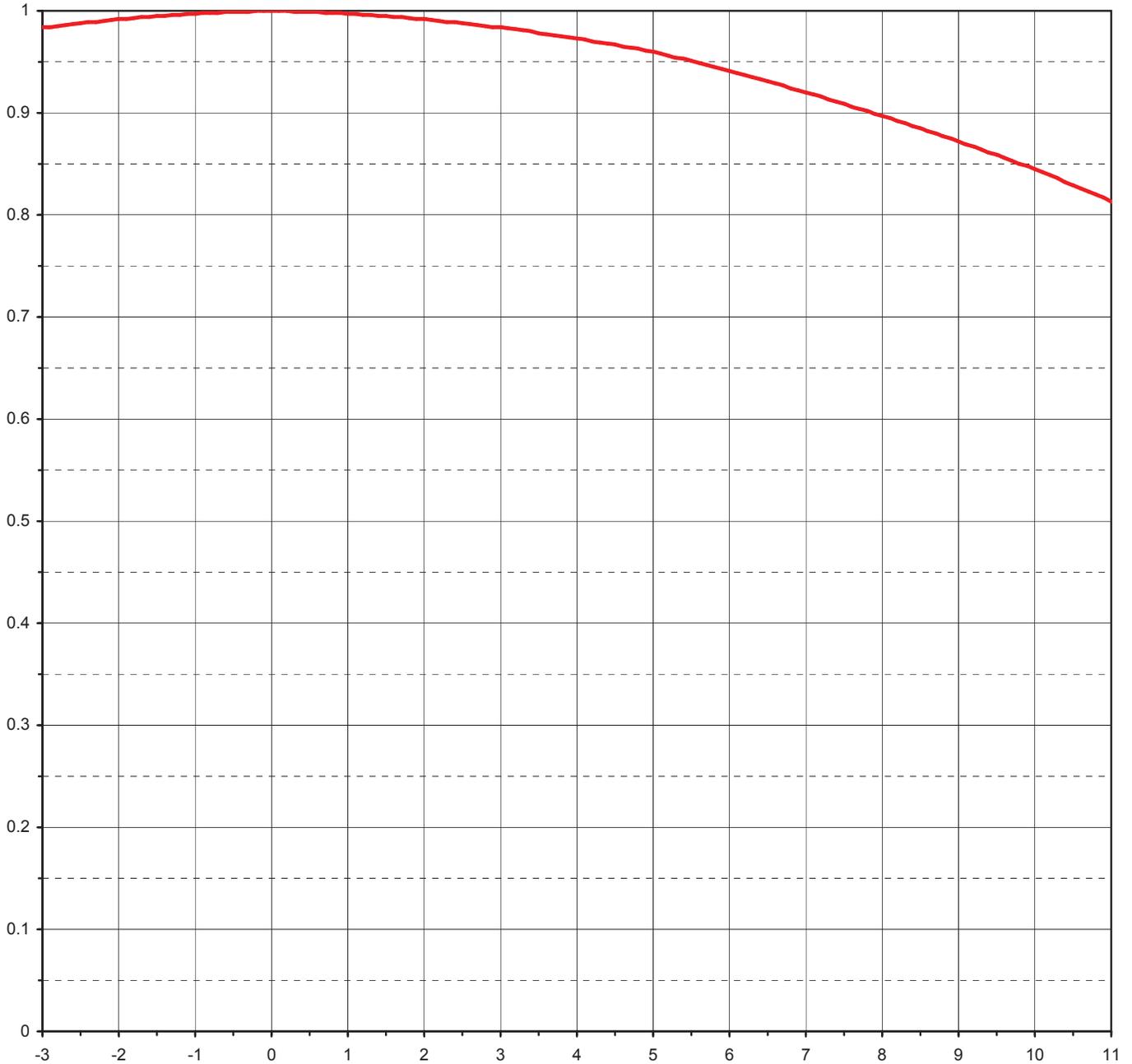
The seal is circular with a decorative border of small diamonds. The text inside the seal reads: "COMMONWEALTH OF VIRGINIA" at the top, "PROFESSIONAL ENGINEER" at the bottom, and "J E HIDLE Lic. No. 007418" in the center.



Proposal Number **C-01912** Revision: **1**
Date **23-Oct-07** **Figure 1**
Call Letters Channel **7**
Location **NY, NY**
Customer **Empire State Bld**
Antenna Type **THA-O4SP-1H/4UD2SP-1-H-M**

ELEVATION PATTERN

| | | | | |
|------------------------|-------------------|--------------------|-----------|-------------------|
| RMS Gain at Main Lobe | 2.14 | (3.31 dB) | Beam Tilt | 0.00 deg |
| RMS Gain at Horizontal | 2.10 | (3.22 dB) | Frequency | 177.00 MHz |
| Calculated / Measured | Calculated | | Drawing # | 01H021000 |



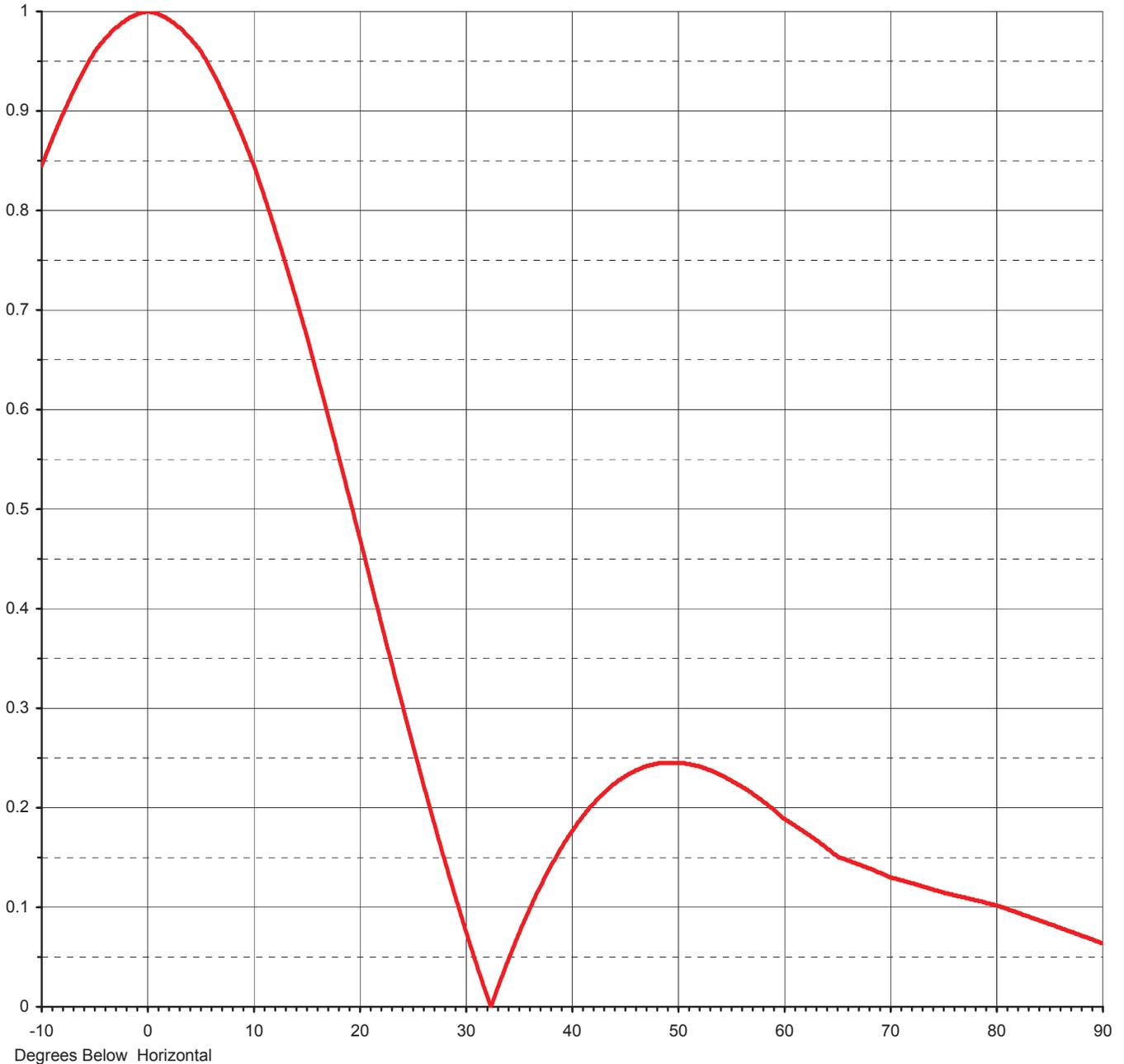
Degrees Below Horizontal



Proposal Number **C-01912** Revision: **1**
Date **23-Oct-07** **Figure 2**
Call Letters Channel **7**
Location **NY, NY**
Customer **Empire State Bld**
Antenna Type **THA-O4SP-1H/4UD2SP-1-H-M**

ELEVATION PATTERN

| | | | |
|------------------------|-------------------------|-----------|---------------------|
| RMS Gain at Main Lobe | 2.14 (3.31 dB) | Beam Tilt | 0.00 deg |
| RMS Gain at Horizontal | 2.10 (3.22 dB) | Frequency | 177.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 01H021000-90 |



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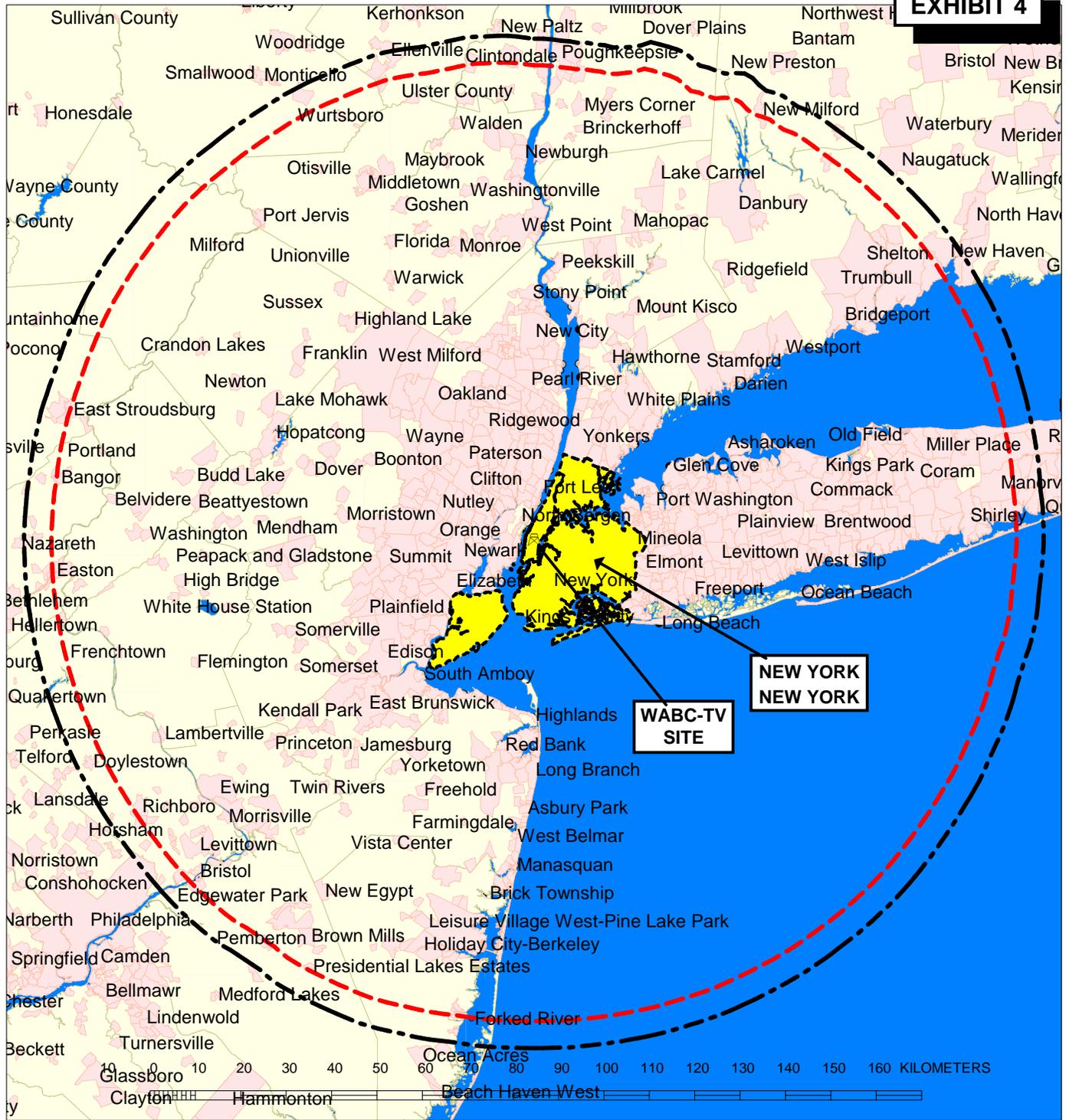
Proposal Number **C-01912** Revision: **1**
 Date **23-Oct-07** **Figure 3**
 Call Letters Channel **7**
 Location **NY, NY**
 Customer **Empire State Bld**
 Antenna Type **THA-O4SP-1H/4UD2SP-1-H-M**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **01H021000-90**

| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.845 | 2.4 | 0.989 | 10.6 | 0.829 | 30.5 | 0.061 | 51.0 | 0.244 | 71.5 | 0.126 |
| -9.5 | 0.859 | 2.6 | 0.987 | 10.8 | 0.823 | 31.0 | 0.045 | 51.5 | 0.243 | 72.0 | 0.124 |
| -9.0 | 0.872 | 2.8 | 0.985 | 11.0 | 0.817 | 31.5 | 0.029 | 52.0 | 0.242 | 72.5 | 0.123 |
| -8.5 | 0.885 | 3.0 | 0.984 | 11.5 | 0.800 | 32.0 | 0.013 | 52.5 | 0.240 | 73.0 | 0.121 |
| -8.0 | 0.897 | 3.2 | 0.982 | 12.0 | 0.784 | 32.5 | 0.002 | 53.0 | 0.238 | 73.5 | 0.119 |
| -7.5 | 0.909 | 3.4 | 0.980 | 12.5 | 0.767 | 33.0 | 0.017 | 53.5 | 0.236 | 74.0 | 0.118 |
| -7.0 | 0.920 | 3.6 | 0.977 | 13.0 | 0.749 | 33.5 | 0.031 | 54.0 | 0.233 | 74.5 | 0.116 |
| -6.5 | 0.931 | 3.8 | 0.975 | 13.5 | 0.732 | 34.0 | 0.045 | 54.5 | 0.231 | 75.0 | 0.115 |
| -6.0 | 0.941 | 4.0 | 0.973 | 14.0 | 0.714 | 34.5 | 0.059 | 55.0 | 0.228 | 75.5 | 0.113 |
| -5.5 | 0.951 | 4.2 | 0.970 | 14.5 | 0.695 | 35.0 | 0.072 | 55.5 | 0.225 | 76.0 | 0.112 |
| -5.0 | 0.960 | 4.4 | 0.968 | 15.0 | 0.677 | 35.5 | 0.084 | 56.0 | 0.222 | 76.5 | 0.111 |
| -4.5 | 0.967 | 4.6 | 0.965 | 15.5 | 0.657 | 36.0 | 0.096 | 56.5 | 0.218 | 77.0 | 0.110 |
| -4.0 | 0.973 | 4.8 | 0.963 | 16.0 | 0.637 | 36.5 | 0.108 | 57.0 | 0.215 | 77.5 | 0.108 |
| -3.5 | 0.979 | 5.0 | 0.960 | 16.5 | 0.617 | 37.0 | 0.119 | 57.5 | 0.211 | 78.0 | 0.107 |
| -3.0 | 0.984 | 5.2 | 0.956 | 17.0 | 0.597 | 37.5 | 0.130 | 58.0 | 0.207 | 78.5 | 0.106 |
| -2.8 | 0.985 | 5.4 | 0.953 | 17.5 | 0.577 | 38.0 | 0.140 | 58.5 | 0.203 | 79.0 | 0.104 |
| -2.6 | 0.987 | 5.6 | 0.949 | 18.0 | 0.556 | 38.5 | 0.149 | 59.0 | 0.199 | 79.5 | 0.103 |
| -2.4 | 0.989 | 5.8 | 0.945 | 18.5 | 0.536 | 39.0 | 0.159 | 59.5 | 0.194 | 80.0 | 0.102 |
| -2.2 | 0.990 | 6.0 | 0.941 | 19.0 | 0.515 | 39.5 | 0.167 | 60.0 | 0.189 | 80.5 | 0.100 |
| -2.0 | 0.992 | 6.2 | 0.937 | 19.5 | 0.495 | 40.0 | 0.175 | 60.5 | 0.186 | 81.0 | 0.098 |
| -1.8 | 0.993 | 6.4 | 0.933 | 20.0 | 0.474 | 40.5 | 0.183 | 61.0 | 0.183 | 81.5 | 0.096 |
| -1.6 | 0.994 | 6.6 | 0.929 | 20.5 | 0.453 | 41.0 | 0.190 | 61.5 | 0.179 | 82.0 | 0.094 |
| -1.4 | 0.995 | 6.8 | 0.924 | 21.0 | 0.432 | 41.5 | 0.197 | 62.0 | 0.175 | 82.5 | 0.092 |
| -1.2 | 0.996 | 7.0 | 0.920 | 21.5 | 0.410 | 42.0 | 0.203 | 62.5 | 0.172 | 83.0 | 0.091 |
| -1.0 | 0.997 | 7.2 | 0.916 | 22.0 | 0.389 | 42.5 | 0.209 | 63.0 | 0.168 | 83.5 | 0.089 |
| -0.8 | 0.998 | 7.4 | 0.911 | 22.5 | 0.368 | 43.0 | 0.214 | 63.5 | 0.164 | 84.0 | 0.087 |
| -0.6 | 0.999 | 7.6 | 0.906 | 23.0 | 0.348 | 43.5 | 0.219 | 64.0 | 0.160 | 84.5 | 0.085 |
| -0.4 | 0.999 | 7.8 | 0.902 | 23.5 | 0.327 | 44.0 | 0.224 | 64.5 | 0.155 | 85.0 | 0.083 |
| -0.2 | 1.000 | 8.0 | 0.897 | 24.0 | 0.307 | 44.5 | 0.228 | 65.0 | 0.151 | 85.5 | 0.081 |
| 0.0 | 1.000 | 8.2 | 0.892 | 24.5 | 0.286 | 45.0 | 0.231 | 65.5 | 0.149 | 86.0 | 0.079 |
| 0.2 | 1.000 | 8.4 | 0.887 | 25.0 | 0.266 | 45.5 | 0.234 | 66.0 | 0.147 | 86.5 | 0.077 |
| 0.4 | 0.999 | 8.6 | 0.882 | 25.5 | 0.246 | 46.0 | 0.237 | 66.5 | 0.145 | 87.0 | 0.075 |
| 0.6 | 0.999 | 8.8 | 0.877 | 26.0 | 0.226 | 46.5 | 0.239 | 67.0 | 0.143 | 87.5 | 0.073 |
| 0.8 | 0.998 | 9.0 | 0.872 | 26.5 | 0.207 | 47.0 | 0.241 | 67.5 | 0.141 | 88.0 | 0.071 |
| 1.0 | 0.997 | 9.2 | 0.867 | 27.0 | 0.187 | 47.5 | 0.243 | 68.0 | 0.139 | 88.5 | 0.070 |
| 1.2 | 0.996 | 9.4 | 0.861 | 27.5 | 0.168 | 48.0 | 0.244 | 68.5 | 0.137 | 89.0 | 0.068 |
| 1.4 | 0.995 | 9.6 | 0.856 | 28.0 | 0.150 | 48.5 | 0.245 | 69.0 | 0.135 | 89.5 | 0.066 |
| 1.6 | 0.994 | 9.8 | 0.853 | 28.5 | 0.131 | 49.0 | 0.245 | 69.5 | 0.132 | 90.0 | 0.064 |
| 1.8 | 0.993 | 10.0 | 0.848 | 29.0 | 0.113 | 49.5 | 0.245 | 70.0 | 0.130 | | |
| 2.0 | 0.992 | 10.2 | 0.842 | 29.5 | 0.096 | 50.0 | 0.245 | 70.5 | 0.129 | | |
| 2.2 | 0.990 | 10.4 | 0.836 | 30.0 | 0.078 | 50.5 | 0.245 | 71.0 | 0.127 | | |

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PREDICTED COVERAGE CONTOURS

WABC-TV, NEW YORK, NEW YORK

DTV Main - ESB - CH. 7 - 34 kW - 405 m HAAT

DTV Aux - ESB - CH. 7 - 26.2 kW - 360 m HAAT

Aux 26.2 kW - 360 meters HAAT
Predicted Noise Limited Contour
F(50,90) - 36 dBu
Area = 34,360 sq km
Population = 21,284,592

SEPTEMBER 2013



Main 34 kW - 405 meters HAAT
Predicted Noise Limited Contour
F(50,90) - 36 dBu
Area = 38,345 sq km
Population = 22,003,970

APPENDIX A
SUMMARY OF RADIOFREQUENCY RADIATION STUDY
WABC-TV, NEW YORK, NEW YORK
CHANNEL 7, 40 kW ERP, 360 m HAAT
AUGUST, 2013

| <u>CALL</u> | <u>SERVICE</u> | <u>CHANNEL</u> | <u>FREQUENCY</u> | <u>POLARIZATION</u> | <u>ANTENNA HEIGHT ** mAGL</u> | <u>ERP (kW)</u> | <u>VERT. RELATIVE FIELD FACTOR</u> | <u>PREDICTED POWER DENSITY (mW/cm²)</u> | <u>FCC UNCONTROLLED LIMIT (mW/cm²)</u> | <u>PERCENT OF UNCONTROLLED LIMIT</u> |
|-------------|----------------|----------------|------------------|---------------------|---------------------------------------|---------------------|--|--|---|--|
| WABC-TV aux | DT | 7 | 177 | H | 355 | 26.200 | 0.300 | 0.00062 | 0.200 | 0.31% |
| WPIX | DT | 11 | 201 | H | 401 | 7.500 | 0.300 | 0.00014 | 0.200 | 0.07% |
| WNET | DT | 13 | 213 | H | 401 | 9.300 | 0.300 | 0.00017 | 0.200 | 0.09% |
| WMBC-TV | DT | 18 | 497 | H | 305 | 90.000 | 0.300 | 0.00291 | 0.331 | 0.88% |
| WNBC | DT | 28 | 557 | H & V | 393 | 200.200 | 0.300 | 0.00779 | 0.371 | 2.10% |
| WFUT-DT | DT | 30 | 569 | H | 425 | 200.000 | 0.300 | 0.00333 | 0.379 | 0.88% |
| WPXN-TV | DT | 31 | 575 | H & V | 356 | 180.000 | 0.300 | 0.00854 | 0.383 | 2.23% |
| WCBS-TV | DT | 33 | 587 | H & V | 393 | 426.000 | 0.300 | 0.01658 | 0.391 | 4.24% |
| WNJU | DT | 36 | 605 | H | 436 | 650.000 | 0.300 | 0.01028 | 0.403 | 2.55% |
| WWOR-TV | DT | 38 | 617 | H & V | 435 | 355.000 | 0.300 | 0.01128 | 0.411 | 2.74% |
| WXTV-DT | DT | 40 | 629 | H & V | 425 | 360.000 | 0.300 | 0.01198 | 0.419 | 2.86% |
| WNYW | DT | 44 | 653 | H & V | 363 | 990.000 | 0.300 | 0.04517 | 0.435 | 10.38% |
| WXRK | FM | 222 | 92.3 | H & V | 411 | 6.000 | 1.000 | 0.00237 | 0.200 | 1.19% |
| WNYC-FM | FM | 230 | 93.9 | H & V | 411 | 5.200 | 1.000 | 0.00206 | 0.200 | 1.03% |
| WPLJ | FM | 238 | 95.5 | H & V | 404 | 6.700 | 1.000 | 0.00274 | 0.200 | 1.37% |
| WXNY-FM | FM | 242 | 96.3 | H & V | 369 | 4.600 | 1.000 | 0.00226 | 0.200 | 1.13% |
| WQHT | FM | 246 | 97.1 | H & V | 404 | 6.700 | 1.000 | 0.00274 | 0.200 | 1.37% |
| WSKQ-FM | FM | 250 | 97.9 | H & V | 369 | 4.600 | 1.000 | 0.00226 | 0.200 | 1.13% |
| WRKS | FM | 254 | 98.7 | H & V | 411 | 6.000 | 1.000 | 0.00237 | 0.200 | 1.19% |
| WBAI | FM | 258 | 99.5 | H & V | 369 | 3.300 | 1.000 | 0.00162 | 0.200 | 0.81% |
| WHTZ | FM | 262 | 100.3 | H & V | 411 | 6.000 | 1.000 | 0.00237 | 0.200 | 1.19% |
| WCBS-FM | FM | 266 | 101.1 | H & V | 404 | 6.700 | 1.000 | 0.00274 | 0.200 | 1.37% |
| WEMP | FM | 270 | 101.9 | H & V | 409 | 6.200 | 1.000 | 0.00248 | 0.200 | 1.24% |
| WWFS | FM | 274 | 102.7 | H & V | 369 | 4.600 | 1.000 | 0.00226 | 0.200 | 1.13% |
| WKTU | FM | 278 | 103.5 | H & V | 411 | 6.000 | 1.000 | 0.00237 | 0.200 | 1.19% |
| WAXO | FM | 282 | 104.3 | H & V | 411 | 6.000 | 1.000 | 0.00237 | 0.200 | 1.19% |
| WWPR-FM | FM | 286 | 105.1 | H & V | 411 | 6.000 | 1.000 | 0.00237 | 0.200 | 1.19% |
| WQXR-FM | FM | 290 | 105.9 | H & V | 412 | 0.610 | 1.000 | 0.00024 | 0.200 | 0.12% |
| WLTW | FM | 294 | 106.7 | H & V | 369 | 4.700 | 1.000 | 0.00231 | 0.200 | 1.15% |
| WBLS | FM | 298 | 107.5 | H & V | 369 | 3.300 | 1.000 | 0.00162 | 0.200 | 0.81% |

TOTAL PERCENTAGE OF ANSI VALUE= 49.09%

** The antenna heights indicated above are 2 meters less than the actual antenna heights so that the predicted power densities consider the 2 meter human height allowance. This evaluation includes facilities collocated at the site, and facilities located within 315 meters.

