



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR MODIFICATION
OF DTV CONSTRUCTION PERMIT
BMPCDT-20080620AKA
WLOS - ASHEVILLE, NORTH CAROLINA
DTV - CH. 13 - 50 kW - 849.4 meters HAAT**

Prepared for: WLOS Licensee, LLC

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 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 WLOS Licensee, LLC, licensee of WLOS(TV), channel 13, Asheville, North Carolina, to prepare this statement, FCC Form 301, Section III-D, and the associated exhibits in support of an application to modify its current post-transition construction permit, BMPCDT-20080620AKA. The applicant proposes to construct its post-transition DTV facility according to its current post-transition authorization with two exceptions. It is herein proposed to: 1) substitute a different directional antenna, a Dielectric model THV-6A13/CP-R C150, with a different horizontal azimuth pattern as shown in exhibits two to eight, for the currently authorized Dielectric THV-10A13-R C170 directional antenna, and 2) to compensate for reduced antenna length, decrease the antenna radiation centerline Height Above Average Terrain (HAAT) from the currently authorized 853 meters to 849.4 meters. No other changes are proposed.

PURPOSE OF APPLICATION

The instant application to modify its current authorization will allow the installation of a smaller, lighter antenna on its existing support structure, thereby reducing the tower loading, and the probability of future structural problems. Since the proposed antenna is shorter than the authorized antenna, the radiation centerline will be 3.6 meters lower. The centerline HAAT will be reduced from the authorized 853 meters to 849.4 meters.

LARGEST STATION IN THE MARKET

Section 73.622(f)(5) permits a DTV station to increase its technical facilities up to those which will provide a geographic coverage area as large as, but not exceeding, that area served by the "largest station in the market", which, in the Greenville-Spartanburg-Anderson-Asheville DMA appears to be WSPA-TV, channel 7, in Spartanburg, SC. WSPA-TV's currently authorized facility, BMPCDT-20080619ABN, 25.7 kW ERP @ 667 meters HAAT, Non-DA, provides a service area encompassing 43,105 square kilometers, within which approximately 2,840,000 persons reside. The WLOS modified technical facility proposed herein, 50 kW ERP @ 849.4 meters HAAT, C150 DA, is predicted to provide a service area of 42,911 square kilometers within which about 2,622,000 persons reside. Therefore, WSPA-TV's predicted service area exceeds WLOS's proposed modified service area by 194 square kilometers, which confirms WSPA-TV's status as "largest station".

WLOS's current authorization, 50 kW ERP @ 853 meters HAAT, provides a service area of 39,720 square kilometers, within which about 2,476,000 persons reside. The proposed modification is predicted to increase the area served by 3,191 square kilometers, and is predicted to increase the population served by about 146,000 persons.

DTV ALLOCATION CONSIDERATIONS

A study was performed utilizing the Commission's application processing software to determine compliance with the post-transition limitations contained in §73.616 of the Commission's rules. Results indicate that the instant proposal to substitute a different directional antenna and slightly decrease WLOS's HAAT from 853 meters to 849.4 meters is predicted to cause no unacceptable level (0.5%) of new interference to the populations served by any DTV station, expansion construction permit, allotment or any other pending application for construction permit to maximize DTV facilities, with one exception.

The processing software predicts new interference to WBTW, channel 13, Florence, SC, of approximately 0.92%. In order to effectuate the proposed modification of WLOS's construction permit, WLOS Licensee, LLC, the applicant herein, has entered into a mutual interference acceptance agreement with Media General Communications Holdings, LLC, the licensee of WBTW. Media General plans to submit an application for modification of license to increase its ERP from 31.6 kW to 54.7 kW, which is predicted to slightly exceed the 0.5% new interference limitation. Media General and WLOS Licensee have mutually agreed to accept the predicted interference to and from WLOS and WBTW.

Class A Television Allocation Considerations

As required in Section 73.613 of the FCC's Rules, the interference contour overlap analysis which is provided by TV_Process was considered, based on the proposed WLOS facility, to establish compliance with the protection requirements contained therein. The study results indicate that no prohibited contour overlap exists with any Class A LPTV stations.

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 9 contains the predicted DTV Noise Limited (36 dBu) contour and the predicted principal community (43 dBu) contour. The predicted 43 dBu contour entirely encompasses the principal community, Asheville, North Carolina.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast technical facilities are located within 10 km of the existing WLOS 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 new 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 a maximum permissible exposure (MPE) level for occupational or "controlled" situations that apply in cases that 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 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, is derived from the formula, $(\text{frequency}/1500)$. The MPE level for "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 is derived from the formula, $(\text{frequency}/300)$.

The WLOS site is located on a mountain top which is accessible by cable car. Another licensee has performed measurements and has previously submitted the results to the Commission. That licensee found the site to be in compliance with the Commission environmental requirements.

OCCUPATIONAL SAFETY

The permittee for WLOS is committed to the protection of station personnel and/or tower contractors working in the vicinity of the proposed WLOS antenna. The applicant is committed to reducing power and/or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

SUMMARY

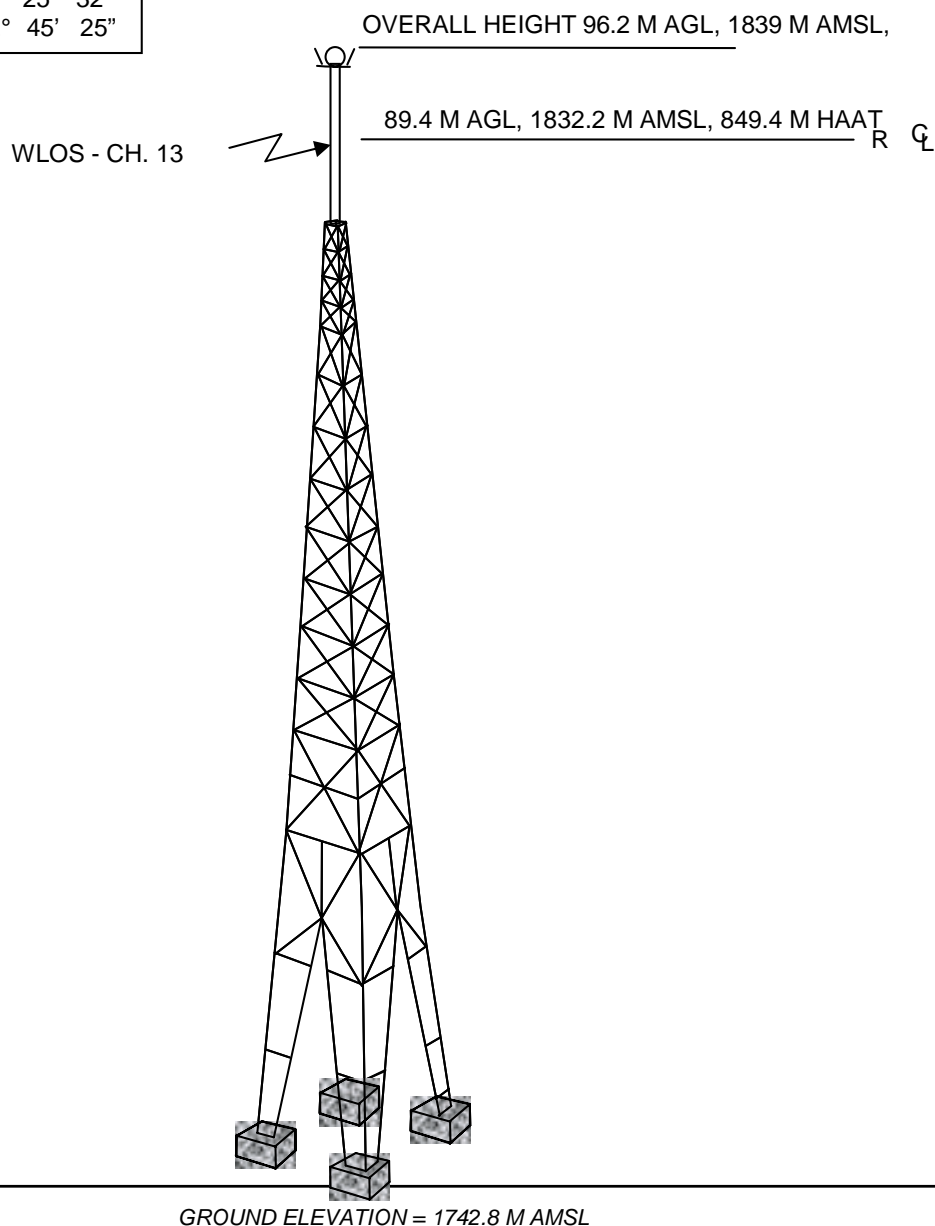
It is submitted that the instant application for modification of construction permit for WLOS seeking to substitute a different directional antenna and slightly decrease its HAAT from 853 meters to 849.4 meters, as described herein complies with the Rules, Regulations and Policies of the Federal Communications 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: March 26, 2010


John E. Hidle, P.E.


NAD-27 COORDINATES

NORTH LATITUDE: 35° 25' 32"
WEST LONGITUDE: 82° 45' 25"



**VERTICAL PLAN ANTENNA SKETCH
WLOS, ASHEVILLE, NORTH CAROLINA
CH. 13, 50 kW – 849.4 m HAAT
MARCH, 2010**

CARL T. JONES
CORPORATION

NOT DRAW TO SCALE



Proposal Number

C-04078**Exhibit 2**

Date

26-Feb-10

Call Letters

WLOS-DT

Channel

13

Location

Asheville, NC

Customer

Antenna Type

THV-6A13/CP-R C150**AZIMUTH PATTERN**

Gain

1.50**(1.76 dB)**

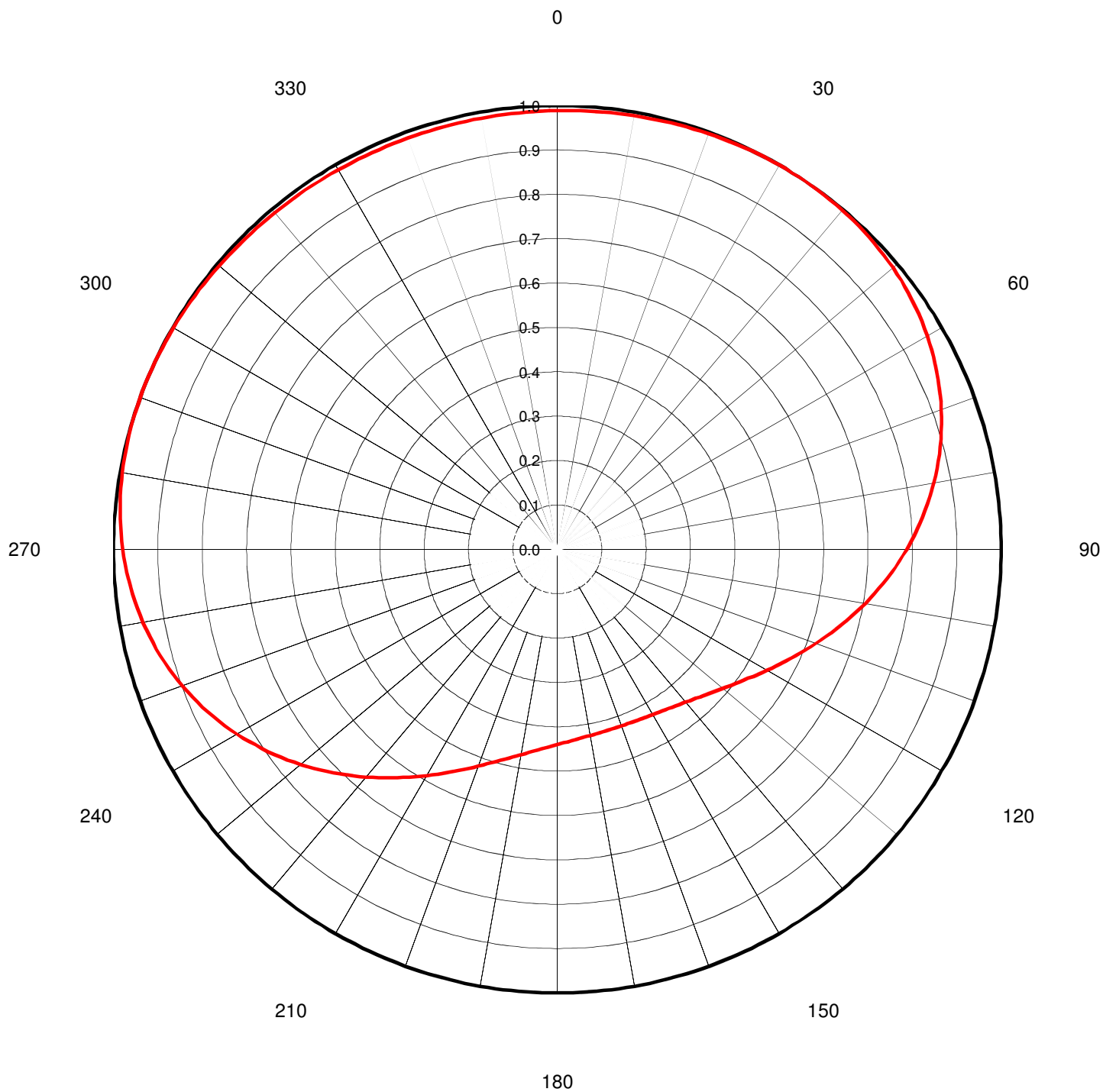
Frequency

213.00 MHz

Calculated / Measured

Calculated

Drawing #

THV-C150H



Proposal Number

C-04078

Date

26-Feb-10

Call Letters

WLOS-DT

Channel

13

Location

Asheville, NC

Customer

Antenna Type

THV-6A13/CP-R C150**TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **THV-C150H**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.989 | 45 | 0.994 | 90 | 0.787 | 135 | 0.466 | 180 | 0.440 | 225 | 0.713 | 270 | 0.979 | 315 | 0.992 |
| 1 | 0.989 | 46 | 0.993 | 91 | 0.779 | 136 | 0.463 | 181 | 0.442 | 226 | 0.721 | 271 | 0.981 | 316 | 0.991 |
| 2 | 0.989 | 47 | 0.992 | 92 | 0.771 | 137 | 0.459 | 182 | 0.445 | 227 | 0.730 | 272 | 0.983 | 317 | 0.991 |
| 3 | 0.990 | 48 | 0.990 | 93 | 0.763 | 138 | 0.456 | 183 | 0.447 | 228 | 0.738 | 273 | 0.985 | 318 | 0.991 |
| 4 | 0.990 | 49 | 0.989 | 94 | 0.755 | 139 | 0.453 | 184 | 0.450 | 229 | 0.746 | 274 | 0.987 | 319 | 0.990 |
| 5 | 0.990 | 50 | 0.987 | 95 | 0.746 | 140 | 0.450 | 185 | 0.453 | 230 | 0.755 | 275 | 0.989 | 320 | 0.990 |
| 6 | 0.991 | 51 | 0.985 | 96 | 0.738 | 141 | 0.447 | 186 | 0.456 | 231 | 0.763 | 276 | 0.990 | 321 | 0.990 |
| 7 | 0.991 | 52 | 0.983 | 97 | 0.730 | 142 | 0.445 | 187 | 0.459 | 232 | 0.771 | 277 | 0.992 | 322 | 0.989 |
| 8 | 0.991 | 53 | 0.981 | 98 | 0.721 | 143 | 0.442 | 188 | 0.463 | 233 | 0.779 | 278 | 0.993 | 323 | 0.989 |
| 9 | 0.992 | 54 | 0.979 | 99 | 0.713 | 144 | 0.440 | 189 | 0.466 | 234 | 0.787 | 279 | 0.994 | 324 | 0.989 |
| 10 | 0.992 | 55 | 0.977 | 100 | 0.704 | 145 | 0.438 | 190 | 0.470 | 235 | 0.795 | 280 | 0.995 | 325 | 0.988 |
| 11 | 0.993 | 56 | 0.974 | 101 | 0.696 | 146 | 0.436 | 191 | 0.474 | 236 | 0.803 | 281 | 0.996 | 326 | 0.988 |
| 12 | 0.993 | 57 | 0.971 | 102 | 0.687 | 147 | 0.435 | 192 | 0.478 | 237 | 0.811 | 282 | 0.997 | 327 | 0.988 |
| 13 | 0.994 | 58 | 0.969 | 103 | 0.679 | 148 | 0.433 | 193 | 0.483 | 238 | 0.819 | 283 | 0.997 | 328 | 0.988 |
| 14 | 0.994 | 59 | 0.966 | 104 | 0.670 | 149 | 0.432 | 194 | 0.488 | 239 | 0.826 | 284 | 0.998 | 329 | 0.987 |
| 15 | 0.995 | 60 | 0.962 | 105 | 0.662 | 150 | 0.430 | 195 | 0.493 | 240 | 0.833 | 285 | 0.999 | 330 | 0.987 |
| 16 | 0.995 | 61 | 0.959 | 106 | 0.653 | 151 | 0.429 | 196 | 0.498 | 241 | 0.841 | 286 | 0.999 | 331 | 0.987 |
| 17 | 0.995 | 62 | 0.956 | 107 | 0.645 | 152 | 0.428 | 197 | 0.503 | 242 | 0.848 | 287 | 0.999 | 332 | 0.987 |
| 18 | 0.996 | 63 | 0.952 | 108 | 0.637 | 153 | 0.427 | 198 | 0.508 | 243 | 0.855 | 288 | 1.000 | 333 | 0.987 |
| 19 | 0.996 | 64 | 0.948 | 109 | 0.629 | 154 | 0.426 | 199 | 0.514 | 244 | 0.862 | 289 | 1.000 | 334 | 0.986 |
| 20 | 0.997 | 65 | 0.944 | 110 | 0.620 | 155 | 0.426 | 200 | 0.520 | 245 | 0.868 | 290 | 1.000 | 335 | 0.986 |
| 21 | 0.997 | 66 | 0.940 | 111 | 0.612 | 156 | 0.425 | 201 | 0.526 | 246 | 0.875 | 291 | 1.000 | 336 | 0.986 |
| 22 | 0.998 | 67 | 0.935 | 112 | 0.604 | 157 | 0.424 | 202 | 0.532 | 247 | 0.881 | 292 | 1.000 | 337 | 0.986 |
| 23 | 0.998 | 68 | 0.931 | 113 | 0.597 | 158 | 0.424 | 203 | 0.539 | 248 | 0.887 | 293 | 1.000 | 338 | 0.986 |
| 24 | 0.998 | 69 | 0.926 | 114 | 0.589 | 159 | 0.424 | 204 | 0.546 | 249 | 0.893 | 294 | 1.000 | 339 | 0.986 |
| 25 | 0.999 | 70 | 0.921 | 115 | 0.581 | 160 | 0.423 | 205 | 0.552 | 250 | 0.899 | 295 | 1.000 | 340 | 0.986 |
| 26 | 0.999 | 71 | 0.916 | 116 | 0.574 | 161 | 0.423 | 206 | 0.559 | 251 | 0.905 | 296 | 0.999 | 341 | 0.986 |
| 27 | 0.999 | 72 | 0.910 | 117 | 0.567 | 162 | 0.423 | 207 | 0.567 | 252 | 0.910 | 297 | 0.999 | 342 | 0.986 |
| 28 | 0.999 | 73 | 0.905 | 118 | 0.559 | 163 | 0.423 | 208 | 0.574 | 253 | 0.916 | 298 | 0.999 | 343 | 0.986 |
| 29 | 1.000 | 74 | 0.899 | 119 | 0.552 | 164 | 0.423 | 209 | 0.581 | 254 | 0.921 | 299 | 0.999 | 344 | 0.986 |
| 30 | 1.000 | 75 | 0.893 | 120 | 0.546 | 165 | 0.424 | 210 | 0.589 | 255 | 0.926 | 300 | 0.998 | 345 | 0.986 |
| 31 | 1.000 | 76 | 0.887 | 121 | 0.539 | 166 | 0.424 | 211 | 0.597 | 256 | 0.931 | 301 | 0.998 | 346 | 0.986 |
| 32 | 1.000 | 77 | 0.881 | 122 | 0.532 | 167 | 0.424 | 212 | 0.604 | 257 | 0.935 | 302 | 0.998 | 347 | 0.986 |
| 33 | 1.000 | 78 | 0.875 | 123 | 0.526 | 168 | 0.425 | 213 | 0.612 | 258 | 0.940 | 303 | 0.997 | 348 | 0.986 |
| 34 | 1.000 | 79 | 0.868 | 124 | 0.520 | 169 | 0.426 | 214 | 0.620 | 259 | 0.944 | 304 | 0.997 | 349 | 0.986 |
| 35 | 1.000 | 80 | 0.862 | 125 | 0.514 | 170 | 0.426 | 215 | 0.629 | 260 | 0.948 | 305 | 0.996 | 350 | 0.986 |
| 36 | 1.000 | 81 | 0.855 | 126 | 0.508 | 171 | 0.427 | 216 | 0.637 | 261 | 0.952 | 306 | 0.996 | 351 | 0.987 |
| 37 | 0.999 | 82 | 0.848 | 127 | 0.503 | 172 | 0.428 | 217 | 0.645 | 262 | 0.956 | 307 | 0.995 | 352 | 0.987 |
| 38 | 0.999 | 83 | 0.841 | 128 | 0.498 | 173 | 0.429 | 218 | 0.653 | 263 | 0.959 | 308 | 0.995 | 353 | 0.987 |
| 39 | 0.999 | 84 | 0.833 | 129 | 0.493 | 174 | 0.430 | 219 | 0.662 | 264 | 0.962 | 309 | 0.995 | 354 | 0.987 |
| 40 | 0.998 | 85 | 0.826 | 130 | 0.488 | 175 | 0.432 | 220 | 0.670 | 265 | 0.966 | 310 | 0.994 | 355 | 0.987 |
| 41 | 0.997 | 86 | 0.819 | 131 | 0.483 | 176 | 0.433 | 221 | 0.679 | 266 | 0.969 | 311 | 0.994 | 356 | 0.988 |
| 42 | 0.997 | 87 | 0.811 | 132 | 0.478 | 177 | 0.435 | 222 | 0.687 | 267 | 0.971 | 312 | 0.993 | 357 | 0.988 |
| 43 | 0.996 | 88 | 0.803 | 133 | 0.474 | 178 | 0.436 | 223 | 0.696 | 268 | 0.974 | 313 | 0.993 | 358 | 0.988 |
| 44 | 0.995 | 89 | 0.795 | 134 | 0.470 | 179 | 0.438 | 224 | 0.704 | 269 | 0.977 | 314 | 0.992 | 359 | 0.988 |

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Proposal Number

C-04078

Exhibit 4

Date

26-Feb-10

Call Letters

WLOS-DT

Channel

13

Location

Asheville, NC

Customer

Antenna Type

THV-6A13/CP-R C150

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain

2.30

(3.62 dB)

Frequency

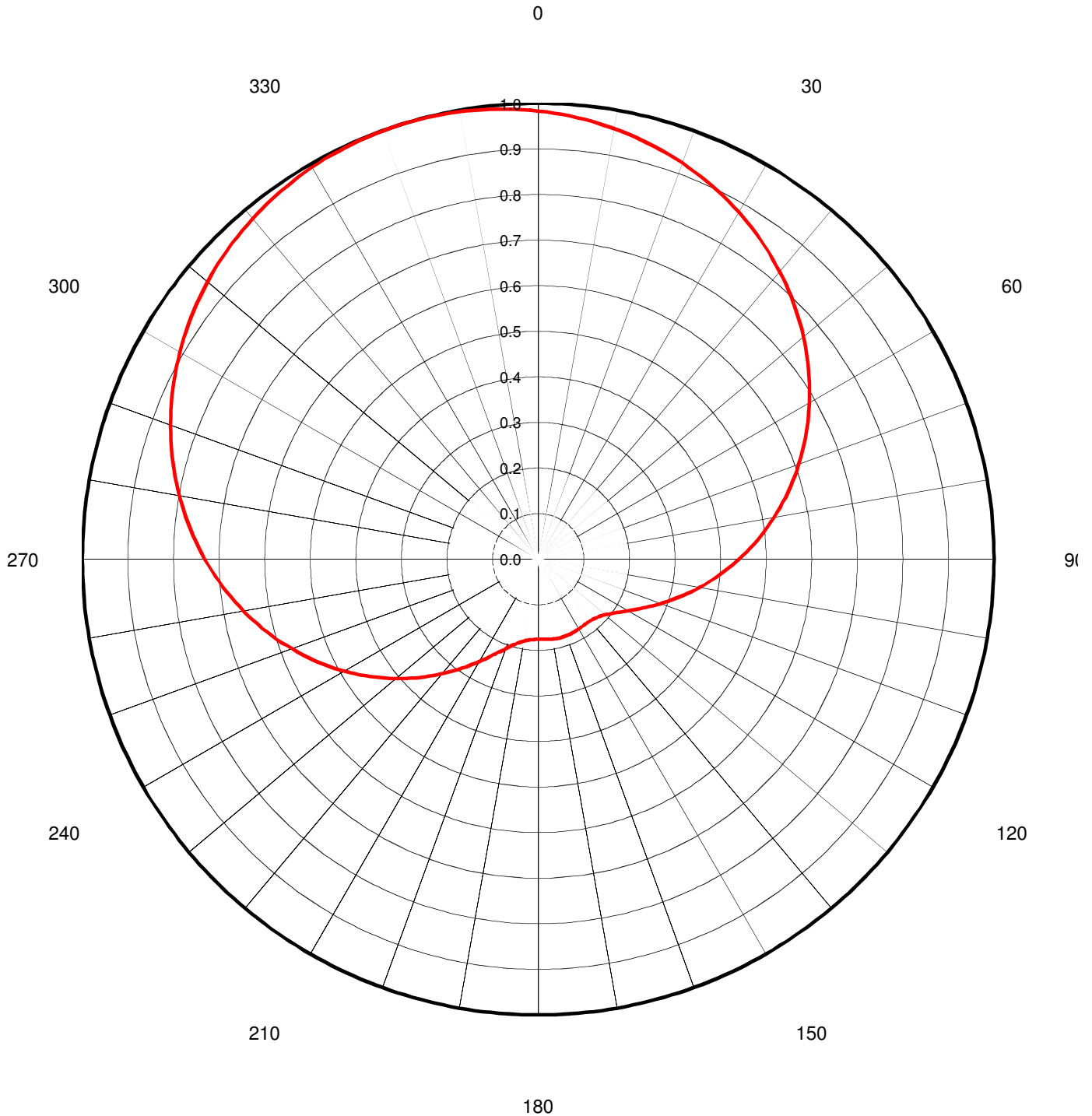
213.00 MHz

Calculated / Measured

Calculated

Drawing #

THV-C230V





Proposal Number

C-04078**Exhibit 5**

Date

26-Feb-10

Call Letters

WLOS-DT

Channel

13

Location

Asheville, NC

Customer

Antenna Type

THV-6A13/CP-R C150**TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **THV-C230V**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.983 | 45 | 0.793 | 90 | 0.441 | 135 | 0.181 | 180 | 0.176 | 225 | 0.367 | 270 | 0.731 | 315 | 0.962 |
| 1 | 0.981 | 46 | 0.786 | 91 | 0.432 | 136 | 0.180 | 181 | 0.176 | 226 | 0.375 | 271 | 0.738 | 316 | 0.965 |
| 2 | 0.979 | 47 | 0.780 | 92 | 0.424 | 137 | 0.179 | 182 | 0.176 | 227 | 0.383 | 272 | 0.745 | 317 | 0.968 |
| 3 | 0.977 | 48 | 0.773 | 93 | 0.416 | 138 | 0.178 | 183 | 0.176 | 228 | 0.391 | 273 | 0.752 | 318 | 0.970 |
| 4 | 0.975 | 49 | 0.766 | 94 | 0.407 | 139 | 0.177 | 184 | 0.177 | 229 | 0.399 | 274 | 0.759 | 319 | 0.973 |
| 5 | 0.973 | 50 | 0.759 | 95 | 0.399 | 140 | 0.177 | 185 | 0.177 | 230 | 0.407 | 275 | 0.766 | 320 | 0.975 |
| 6 | 0.970 | 51 | 0.752 | 96 | 0.391 | 141 | 0.176 | 186 | 0.178 | 231 | 0.416 | 276 | 0.773 | 321 | 0.977 |
| 7 | 0.968 | 52 | 0.745 | 97 | 0.383 | 142 | 0.176 | 187 | 0.179 | 232 | 0.424 | 277 | 0.780 | 322 | 0.979 |
| 8 | 0.965 | 53 | 0.738 | 98 | 0.375 | 143 | 0.176 | 188 | 0.180 | 233 | 0.432 | 278 | 0.786 | 323 | 0.981 |
| 9 | 0.962 | 54 | 0.731 | 99 | 0.367 | 144 | 0.176 | 189 | 0.181 | 234 | 0.441 | 279 | 0.793 | 324 | 0.983 |
| 10 | 0.959 | 55 | 0.724 | 100 | 0.359 | 145 | 0.176 | 190 | 0.183 | 235 | 0.449 | 280 | 0.799 | 325 | 0.985 |
| 11 | 0.956 | 56 | 0.717 | 101 | 0.351 | 146 | 0.176 | 191 | 0.184 | 236 | 0.458 | 281 | 0.805 | 326 | 0.987 |
| 12 | 0.953 | 57 | 0.709 | 102 | 0.343 | 147 | 0.176 | 192 | 0.186 | 237 | 0.466 | 282 | 0.812 | 327 | 0.988 |
| 13 | 0.950 | 58 | 0.702 | 103 | 0.336 | 148 | 0.176 | 193 | 0.188 | 238 | 0.474 | 283 | 0.818 | 328 | 0.990 |
| 14 | 0.947 | 59 | 0.694 | 104 | 0.328 | 149 | 0.177 | 194 | 0.190 | 239 | 0.483 | 284 | 0.824 | 329 | 0.991 |
| 15 | 0.943 | 60 | 0.687 | 105 | 0.321 | 150 | 0.177 | 195 | 0.193 | 240 | 0.491 | 285 | 0.830 | 330 | 0.993 |
| 16 | 0.940 | 61 | 0.679 | 106 | 0.313 | 151 | 0.177 | 196 | 0.196 | 241 | 0.500 | 286 | 0.836 | 331 | 0.994 |
| 17 | 0.936 | 62 | 0.672 | 107 | 0.306 | 152 | 0.177 | 197 | 0.199 | 242 | 0.508 | 287 | 0.842 | 332 | 0.995 |
| 18 | 0.932 | 63 | 0.664 | 108 | 0.299 | 153 | 0.178 | 198 | 0.202 | 243 | 0.517 | 288 | 0.847 | 333 | 0.996 |
| 19 | 0.929 | 64 | 0.656 | 109 | 0.292 | 154 | 0.178 | 199 | 0.205 | 244 | 0.525 | 289 | 0.853 | 334 | 0.997 |
| 20 | 0.925 | 65 | 0.648 | 110 | 0.285 | 155 | 0.178 | 200 | 0.209 | 245 | 0.534 | 290 | 0.858 | 335 | 0.997 |
| 21 | 0.921 | 66 | 0.640 | 111 | 0.279 | 156 | 0.179 | 201 | 0.213 | 246 | 0.542 | 291 | 0.864 | 336 | 0.998 |
| 22 | 0.916 | 67 | 0.632 | 112 | 0.272 | 157 | 0.179 | 202 | 0.217 | 247 | 0.550 | 292 | 0.869 | 337 | 0.999 |
| 23 | 0.912 | 68 | 0.624 | 113 | 0.266 | 158 | 0.179 | 203 | 0.222 | 248 | 0.559 | 293 | 0.874 | 338 | 0.999 |
| 24 | 0.908 | 69 | 0.616 | 114 | 0.260 | 159 | 0.179 | 204 | 0.227 | 249 | 0.567 | 294 | 0.879 | 339 | 1.000 |
| 25 | 0.903 | 70 | 0.608 | 115 | 0.254 | 160 | 0.179 | 205 | 0.232 | 250 | 0.575 | 295 | 0.884 | 340 | 1.000 |
| 26 | 0.899 | 71 | 0.600 | 116 | 0.248 | 161 | 0.179 | 206 | 0.237 | 251 | 0.584 | 296 | 0.889 | 341 | 1.000 |
| 27 | 0.894 | 72 | 0.592 | 117 | 0.242 | 162 | 0.179 | 207 | 0.242 | 252 | 0.592 | 297 | 0.894 | 342 | 1.000 |
| 28 | 0.889 | 73 | 0.584 | 118 | 0.237 | 163 | 0.179 | 208 | 0.248 | 253 | 0.600 | 298 | 0.899 | 343 | 1.000 |
| 29 | 0.884 | 74 | 0.575 | 119 | 0.232 | 164 | 0.179 | 209 | 0.254 | 254 | 0.608 | 299 | 0.903 | 344 | 1.000 |
| 30 | 0.879 | 75 | 0.567 | 120 | 0.227 | 165 | 0.179 | 210 | 0.260 | 255 | 0.616 | 300 | 0.908 | 345 | 1.000 |
| 31 | 0.874 | 76 | 0.559 | 121 | 0.222 | 166 | 0.179 | 211 | 0.266 | 256 | 0.624 | 301 | 0.912 | 346 | 0.999 |
| 32 | 0.869 | 77 | 0.550 | 122 | 0.217 | 167 | 0.179 | 212 | 0.272 | 257 | 0.632 | 302 | 0.916 | 347 | 0.999 |
| 33 | 0.864 | 78 | 0.542 | 123 | 0.213 | 168 | 0.179 | 213 | 0.279 | 258 | 0.640 | 303 | 0.921 | 348 | 0.998 |
| 34 | 0.858 | 79 | 0.534 | 124 | 0.209 | 169 | 0.178 | 214 | 0.285 | 259 | 0.648 | 304 | 0.925 | 349 | 0.997 |
| 35 | 0.853 | 80 | 0.525 | 125 | 0.205 | 170 | 0.178 | 215 | 0.292 | 260 | 0.656 | 305 | 0.929 | 350 | 0.997 |
| 36 | 0.847 | 81 | 0.517 | 126 | 0.202 | 171 | 0.178 | 216 | 0.299 | 261 | 0.664 | 306 | 0.932 | 351 | 0.996 |
| 37 | 0.842 | 82 | 0.508 | 127 | 0.199 | 172 | 0.177 | 217 | 0.306 | 262 | 0.672 | 307 | 0.936 | 352 | 0.995 |
| 38 | 0.836 | 83 | 0.500 | 128 | 0.196 | 173 | 0.177 | 218 | 0.313 | 263 | 0.679 | 308 | 0.940 | 353 | 0.994 |
| 39 | 0.830 | 84 | 0.491 | 129 | 0.193 | 174 | 0.177 | 219 | 0.321 | 264 | 0.687 | 309 | 0.943 | 354 | 0.993 |
| 40 | 0.824 | 85 | 0.483 | 130 | 0.190 | 175 | 0.177 | 220 | 0.328 | 265 | 0.694 | 310 | 0.947 | 355 | 0.991 |
| 41 | 0.818 | 86 | 0.474 | 131 | 0.188 | 176 | 0.176 | 221 | 0.336 | 266 | 0.702 | 311 | 0.950 | 356 | 0.990 |
| 42 | 0.812 | 87 | 0.466 | 132 | 0.186 | 177 | 0.176 | 222 | 0.343 | 267 | 0.709 | 312 | 0.953 | 357 | 0.988 |
| 43 | 0.805 | 88 | 0.458 | 133 | 0.184 | 178 | 0.176 | 223 | 0.351 | 268 | 0.717 | 313 | 0.956 | 358 | 0.987 |
| 44 | 0.799 | 89 | 0.449 | 134 | 0.183 | 179 | 0.176 | 224 | 0.359 | 269 | 0.724 | 314 | 0.959 | 359 | 0.985 |

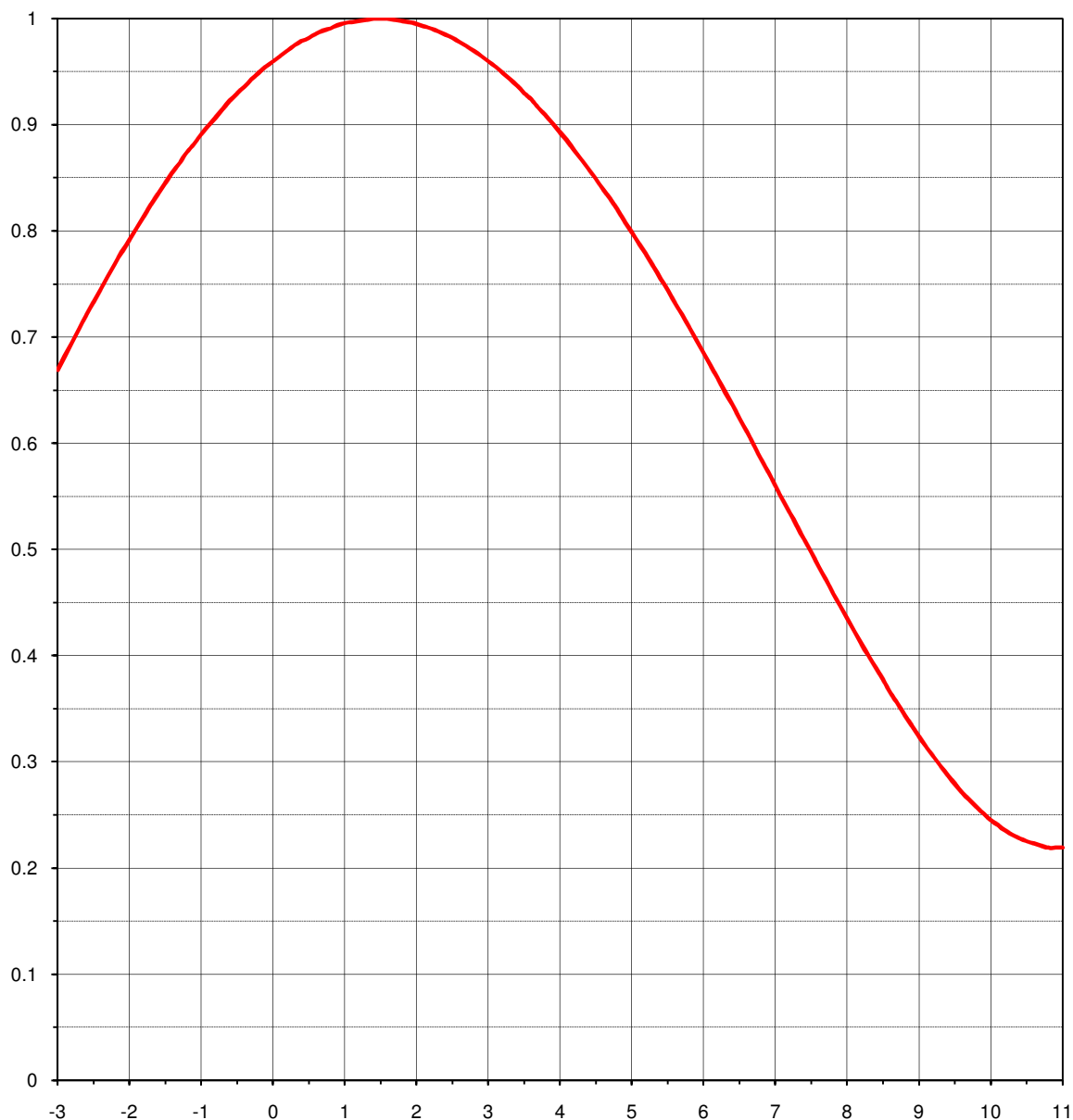
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| | | |
|-----------------|---------------------------|-------------------|
| Proposal Number | C-04078 | Exhibit 6 |
| Date | 26-Feb-10 | |
| Call Letters | WLOS-DT | Channel 13 |
| Location | Asheville, NC | |
| Customer | | |
| Antenna Type | THV-6A13/CP-R C150 | |

ELEVATION PATTERN

| | | | |
|------------------------|-------------------------|-----------|-------------------|
| RMS Gain at Main Lobe | 6.00 (7.78 dB) | Beam Tilt | 1.50 deg |
| RMS Gain at Horizontal | 5.50 (7.40 dB) | Frequency | 213.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 06V060150 |



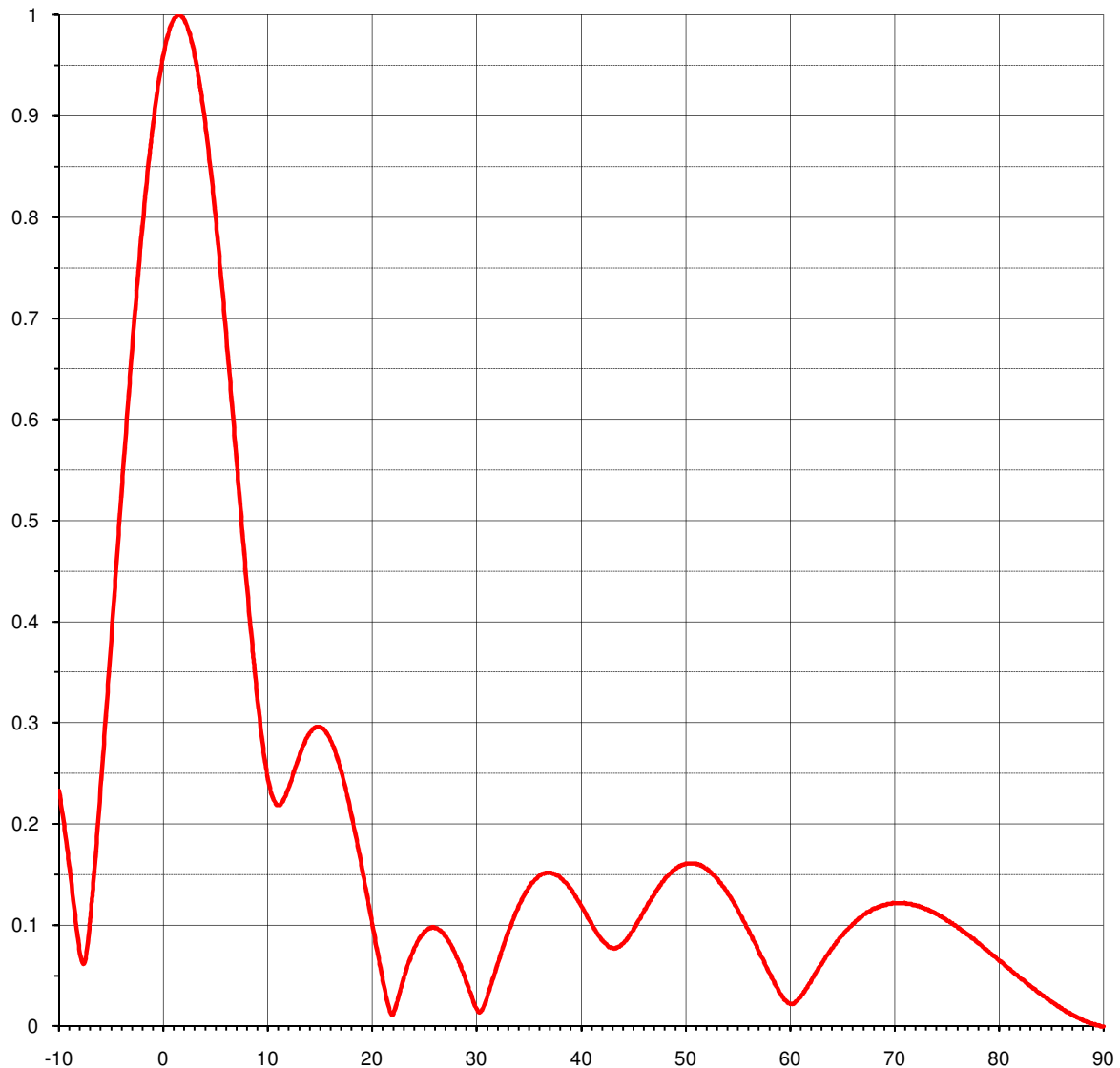
Degrees Below Horizontal



| | | |
|-----------------|---------------------------|-------------------|
| Proposal Number | C-04078 | Exhibit 7 |
| Date | 26-Feb-10 | |
| Call Letters | WLOS-DT | Channel 13 |
| Location | Asheville, NC | |
| Customer | | |
| Antenna Type | THV-6A13/CP-R C150 | |

ELEVATION PATTERN

| | | | |
|------------------------|-------------------------|-----------|---------------------|
| RMS Gain at Main Lobe | 6.00 (7.78 dB) | Beam Tilt | 1.50 deg |
| RMS Gain at Horizontal | 5.50 (7.40 dB) | Frequency | 213.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 06V060150-90 |





Proposal Number **C-04078** Exhibit 8
Date **26-Feb-10**
Call Letters **WLOS-DT** Channel **13**
Location **Asheville, NC**
Customer
Antenna Type **THV-6A13/CP-R C150**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **06V060150-90**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.233 | 2.4 | 0.985 | 10.6 | 0.225 | 30.5 | 0.015 | 51.0 | 0.161 | 71.5 | 0.121 |
| -9.5 | 0.198 | 2.6 | 0.978 | 10.8 | 0.221 | 31.0 | 0.026 | 51.5 | 0.159 | 72.0 | 0.120 |
| -9.0 | 0.158 | 2.8 | 0.970 | 11.0 | 0.219 | 31.5 | 0.042 | 52.0 | 0.156 | 72.5 | 0.118 |
| -8.5 | 0.114 | 3.0 | 0.960 | 11.5 | 0.222 | 32.0 | 0.059 | 52.5 | 0.152 | 73.0 | 0.116 |
| -8.0 | 0.073 | 3.2 | 0.949 | 12.0 | 0.233 | 32.5 | 0.075 | 53.0 | 0.147 | 73.5 | 0.114 |
| -7.5 | 0.065 | 3.4 | 0.937 | 12.5 | 0.249 | 33.0 | 0.090 | 53.5 | 0.141 | 74.0 | 0.111 |
| -7.0 | 0.106 | 3.6 | 0.924 | 13.0 | 0.264 | 33.5 | 0.104 | 54.0 | 0.134 | 74.5 | 0.108 |
| -6.5 | 0.167 | 3.8 | 0.909 | 13.5 | 0.278 | 34.0 | 0.116 | 54.5 | 0.126 | 75.0 | 0.105 |
| -6.0 | 0.236 | 4.0 | 0.893 | 14.0 | 0.288 | 34.5 | 0.127 | 55.0 | 0.117 | 75.5 | 0.102 |
| -5.5 | 0.308 | 4.2 | 0.876 | 14.5 | 0.295 | 35.0 | 0.136 | 55.5 | 0.107 | 76.0 | 0.098 |
| -5.0 | 0.382 | 4.4 | 0.858 | 15.0 | 0.296 | 35.5 | 0.143 | 56.0 | 0.097 | 76.5 | 0.094 |
| -4.5 | 0.456 | 4.6 | 0.839 | 15.5 | 0.293 | 36.0 | 0.148 | 56.5 | 0.087 | 77.0 | 0.091 |
| -4.0 | 0.530 | 4.8 | 0.820 | 16.0 | 0.285 | 36.5 | 0.151 | 57.0 | 0.076 | 77.5 | 0.087 |
| -3.5 | 0.601 | 5.0 | 0.799 | 16.5 | 0.273 | 37.0 | 0.152 | 57.5 | 0.066 | 78.0 | 0.082 |
| -3.0 | 0.669 | 5.2 | 0.778 | 17.0 | 0.257 | 37.5 | 0.151 | 58.0 | 0.055 | 78.5 | 0.078 |
| -2.8 | 0.695 | 5.4 | 0.755 | 17.5 | 0.237 | 38.0 | 0.148 | 58.5 | 0.045 | 79.0 | 0.074 |
| -2.6 | 0.721 | 5.6 | 0.732 | 18.0 | 0.214 | 38.5 | 0.143 | 59.0 | 0.035 | 79.5 | 0.070 |
| -2.4 | 0.745 | 5.8 | 0.709 | 18.5 | 0.189 | 39.0 | 0.137 | 59.5 | 0.027 | 80.0 | 0.065 |
| -2.2 | 0.769 | 6.0 | 0.685 | 19.0 | 0.162 | 39.5 | 0.129 | 60.0 | 0.023 | 80.5 | 0.061 |
| -2.0 | 0.792 | 6.2 | 0.661 | 19.5 | 0.135 | 40.0 | 0.121 | 60.5 | 0.023 | 81.0 | 0.057 |
| -1.8 | 0.814 | 6.4 | 0.636 | 20.0 | 0.106 | 40.5 | 0.112 | 61.0 | 0.028 | 81.5 | 0.052 |
| -1.6 | 0.835 | 6.6 | 0.611 | 20.5 | 0.078 | 41.0 | 0.103 | 61.5 | 0.035 | 82.0 | 0.048 |
| -1.4 | 0.855 | 6.8 | 0.585 | 21.0 | 0.051 | 41.5 | 0.094 | 62.0 | 0.043 | 82.5 | 0.044 |
| -1.2 | 0.874 | 7.0 | 0.560 | 21.5 | 0.026 | 42.0 | 0.086 | 62.5 | 0.052 | 83.0 | 0.040 |
| -1.0 | 0.891 | 7.2 | 0.535 | 22.0 | 0.011 | 42.5 | 0.081 | 63.0 | 0.060 | 83.5 | 0.036 |
| -0.8 | 0.907 | 7.4 | 0.509 | 22.5 | 0.025 | 43.0 | 0.078 | 63.5 | 0.068 | 84.0 | 0.032 |
| -0.6 | 0.923 | 7.6 | 0.484 | 23.0 | 0.044 | 43.5 | 0.078 | 64.0 | 0.076 | 84.5 | 0.028 |
| -0.4 | 0.936 | 7.8 | 0.459 | 23.5 | 0.061 | 44.0 | 0.081 | 64.5 | 0.084 | 85.0 | 0.024 |
| -0.2 | 0.949 | 8.0 | 0.435 | 24.0 | 0.074 | 44.5 | 0.087 | 65.0 | 0.090 | 85.5 | 0.021 |
| 0.0 | 0.960 | 8.2 | 0.411 | 24.5 | 0.085 | 45.0 | 0.094 | 65.5 | 0.096 | 86.0 | 0.018 |
| 0.2 | 0.970 | 8.4 | 0.388 | 25.0 | 0.092 | 45.5 | 0.103 | 66.0 | 0.101 | 86.5 | 0.014 |
| 0.4 | 0.979 | 8.6 | 0.365 | 25.5 | 0.097 | 46.0 | 0.112 | 66.5 | 0.106 | 87.0 | 0.011 |
| 0.6 | 0.986 | 8.8 | 0.344 | 26.0 | 0.098 | 46.5 | 0.121 | 67.0 | 0.110 | 87.5 | 0.009 |
| 0.8 | 0.991 | 9.0 | 0.324 | 26.5 | 0.095 | 47.0 | 0.129 | 67.5 | 0.113 | 88.0 | 0.006 |
| 1.0 | 0.996 | 9.2 | 0.305 | 27.0 | 0.090 | 47.5 | 0.137 | 68.0 | 0.116 | 88.5 | 0.004 |
| 1.2 | 0.998 | 9.4 | 0.287 | 27.5 | 0.083 | 48.0 | 0.144 | 68.5 | 0.118 | 89.0 | 0.002 |
| 1.4 | 1.000 | 9.6 | 0.271 | 28.0 | 0.073 | 48.5 | 0.150 | 69.0 | 0.120 | 89.5 | 0.001 |
| 1.6 | 1.000 | 9.8 | 0.264 | 28.5 | 0.061 | 49.0 | 0.155 | 69.5 | 0.121 | 90.0 | 0.000 |
| 1.8 | 0.998 | 10.0 | 0.251 | 29.0 | 0.047 | 49.5 | 0.158 | 70.0 | 0.122 | | |
| 2.0 | 0.995 | 10.2 | 0.240 | 29.5 | 0.033 | 50.0 | 0.160 | 70.5 | 0.122 | | |
| 2.2 | 0.991 | 10.4 | 0.231 | 30.0 | 0.019 | 50.5 | 0.161 | 71.0 | 0.122 | | |

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PREDICTED COVERAGE CONTOURS

WLOS - Channel 13 - Asheville, North Carolina
DTV - 50 kW DA - 849.4 meters HAAT

PREDICTED 43 dBu F(50,90)
DTV Principal Community Contour

PREDICTED 36 dBu F(50,90)
DTV Noise Limited Contour