



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
CONSTRUCTION PERMIT
WNWO-TV - TOLEDO, OHIO
DTV - CH. 49 - 105 kW - 423.5 m HAAT**

Prepared for: WNWO 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 WNWO Licensee, LLC, licensee of WNWO-TV, channel 49, licensed to Toledo, Ohio, to prepare this statement, FCC Form 301, Sections III and III-D, and the associated exhibits in support of an application for construction permit to replace its licensed antenna with a new antenna to be installed in the position of its top-mounted former analog antenna.

DIRECTIONAL ANTENNA

The applicant proposes to install a new Dielectric model TFU-12DSC/VP-R elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 424.7 meters, and a height above average terrain of 423.5 meters. A vertical plan antenna sketch is shown in Exhibit 1. The antenna manufacturer's horizontal plane azimuth patterns, illustrating the antenna's radiation characteristics as a function of direction, are shown for the horizontally polarized signal component in exhibit

2 and tabulated in exhibit 3, and for the vertically polarized signal component in exhibit 4 and tabulated in exhibit 5. The new antenna's horizontal plane azimuth pattern is precisely the same as the antenna azimuth pattern presently licensed. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane, due to electrical beam tilt, is shown in Exhibits 6 and 7, and is tabulated in Exhibit 8.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated 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 NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 9 shows the predicted Noise Limited (41 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Toledo, Ohio.

ALLOCATION CONSIDERATIONS

DTV Allocation Considerations

Compliance with Public Notice DA 13-618, which imposes limitations on the filing and processing of modification applications, is shown in exhibit 10. Since the new antenna is to be installed with its radiation centerline located 14.2 meters higher than the existing

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WNWO-TV - Toledo, Ohio
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antenna, compliance with DA 13-618 requires that WNWO-TV's Effective Radiated Power (ERP) be reduced to a level which will not increase the station's noise-limited contour in any direction.

Even though the station's noise-limited contour is not increased, a study was performed, using the Commission's application processing software, tv_process, to determine if the instant application for construction permit for WNWO-TV is predicted to cause any level of new prohibited interference to any domestic DTV stations, expansion construction permits, pending applications or DTV allotments. Results of the study, shown in Appendix B, indicate that the instant application is predicted to cause no impermissible level of new interference to the populations to be served by any domestic DTV station, expansion construction permit, pending DTV application or DTV allotment.

International Considerations

The study reveals that the proposed facility is 31.8 kilometers from the Canadian border. The FCC's database shows that there are no first adjacent-channel records closer than 218 km from WNWO-TV's site. The closest co-channel Canadian record is CBLN-TV, London, Ontario which is also 218 km from WNWO-TV's site. WNWO-TV is not extending its noise-limited contour in any direction, and a separate Longley/Rice study shows no interference to the CBLN-TV grant, therefore there are no international considerations.

Class A Television Allocation Considerations

As required in Section 73.616(f) of the FCC's Rules, a study was performed, using the FCC's application processing software. The study revealed one spacing violation or contour overlap to Class A station, WMNT-CA, channel 48, Toledo, Ohio, which is located

14.5 km from WNWO-TV's site. The Longley-Rice section of the tv_process study results show that WNWO-TV is predicted to cause 0.0728% new interference to WMNT-CA. The predicted new interference is less than 0.5%, and is therefore, acceptable.

AM station considerations

The study also states that the "Proposed station is OK toward AM broadcast stations".

BLANKETING AND INTERMODULATION INTERFERENCE

There are no broadcast facilities co-located with WNWO-TV, however other broadcast and non-broadcast facilities are located within 10 km of WNWO-TV's site. The applicant does recognize its responsibility to remedy complaints of interference that 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 define 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" (Edition 97-01, August 1997), provides

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assistance to determine whether FCC-regulated transmitting facilities, operations or devices 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 0.2 milliwatts per centimeter squared (mW/cm^2) for an "uncontrolled" environment, and is 1.0 milliwatts per centimeter squared (mW/cm^2) for a "controlled" environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHz and 1500 MHz, primarily UHF TV stations, is determined for an "uncontrolled" environment by dividing the operating frequency in MHz by 1500, and is similarly determined for a "controlled" environment by dividing the operating frequency in MHz by 300. The predicted emissions of WNWO-TV operating on channel 49 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WNWO-TV, which will operate on television Channel 49 (680-686 MHz), the MPE is 0.455 milliwatts per centimeter squared (mW/cm^2) in an "uncontrolled" environment and 2.275 mW/cm^2 in a "controlled" environment. The proposed WNWO-TV facility will operate with a maximum ERP of 105 kW from an elliptically polarized directional transmitting antenna with a centerline height of 424.7 meters above ground level (AGL). Considering a very conservative vertical plane relative field factor of 0.300, the WNWO-TV facility is predicted to produce a power density at two meters above ground level of 0.00353 mW/cm^2 , which is 0.78% of the FCC guideline value for an "uncontrolled" environment, and 0.156% of the FCC's guideline value for "controlled" environments (see

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Appendix A). There are no other full-service or low-power DTV stations, nor FM stations, located within the relevant proximity of 315 meters. The total percentage of the ANSI value at the proposed site is the result of only WNWO-TV.

OCCUPATIONAL SAFETY

The licensee of WNWO-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WNWO-TV antenna, and is committed to reducing power 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 construction permit to replace WNWO-TV's antenna, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 301, Sections III and 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.

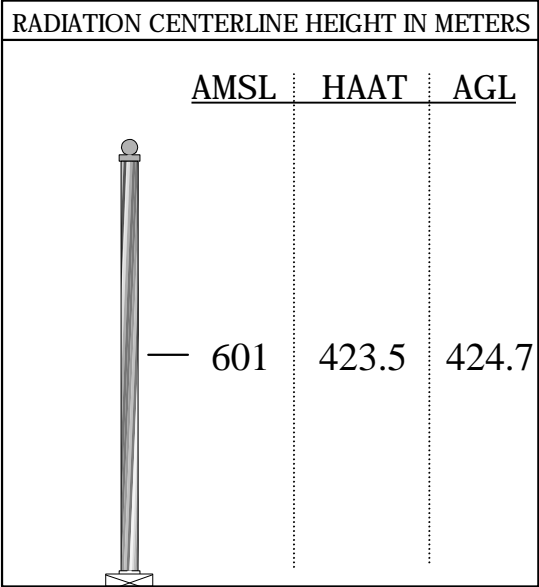
DATED: February 27, 2014



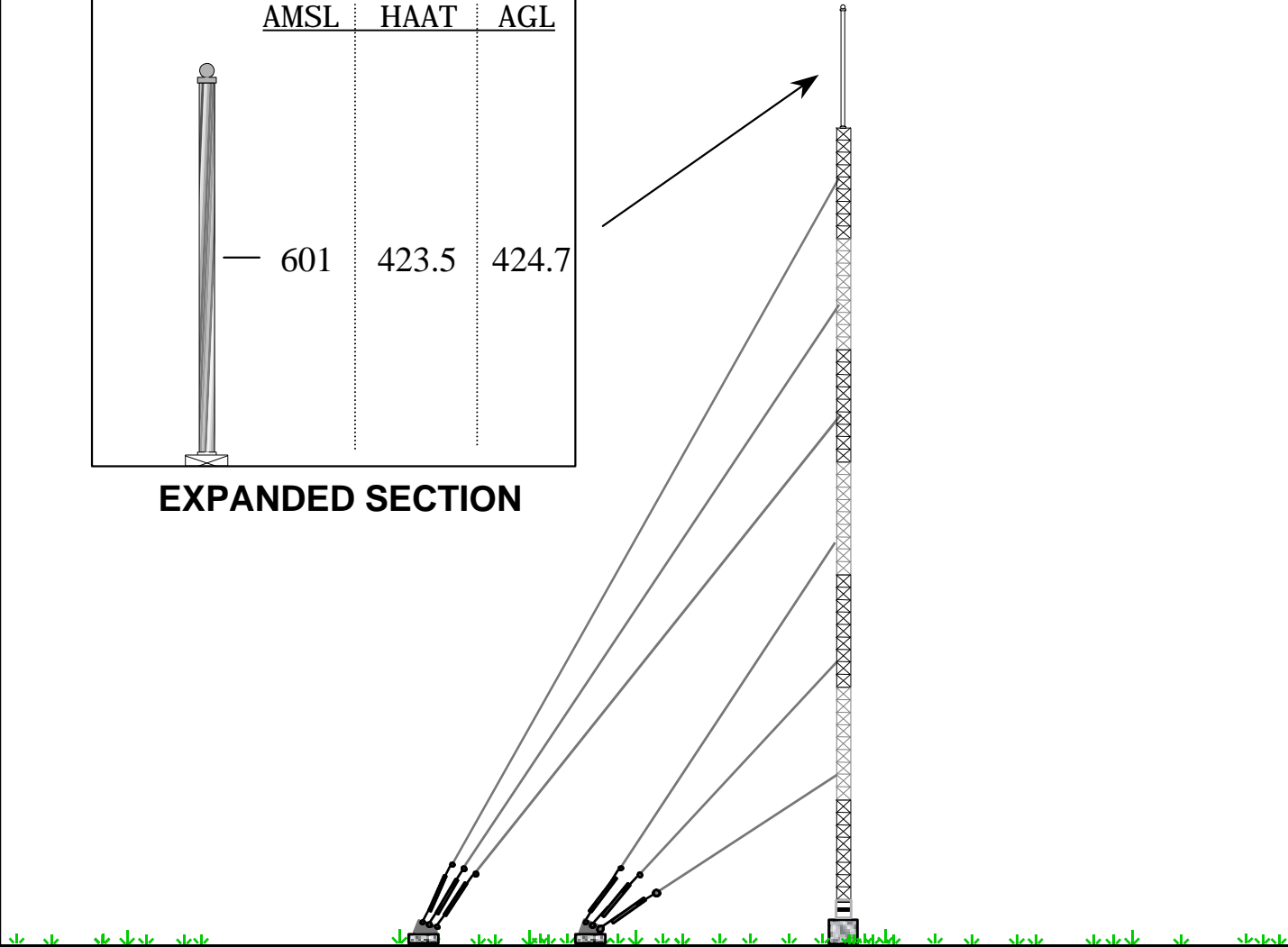
John E. Hidle, P.E.



COORDINATES NAD-27
NORTH LATITUDE: 41° 40' 03"
WEST LONGITUDE: 83° 21' 22"



EXPANDED SECTION



GROUND ELEVATION = 176.5 meters A.M.S.L. / AVERAGE TERRAIN = 172.6 meters A.M.S.L.

VERTICAL PLAN ANTENNA SKETCH
WNWO-TV - TOLEDO, OHIO
Ch. 49 - 105 kW ERP - 423.5 m HAAT
FEBRUARY, 2014

CARL T. JONES
CORPORATION

NOTE : NOT DRAWN TO SCALE



Proposal Number

C-06088

Exhibit 2

Date

17-Jan-14

Call Letters

WNWO

Channel

49

Location

Toledo, Ohio

Customer

Antenna Type

TFU-12DSC/VP-R

AZIMUTH PATTERN

Gain

1.90

(2.79 dB)

Frequency

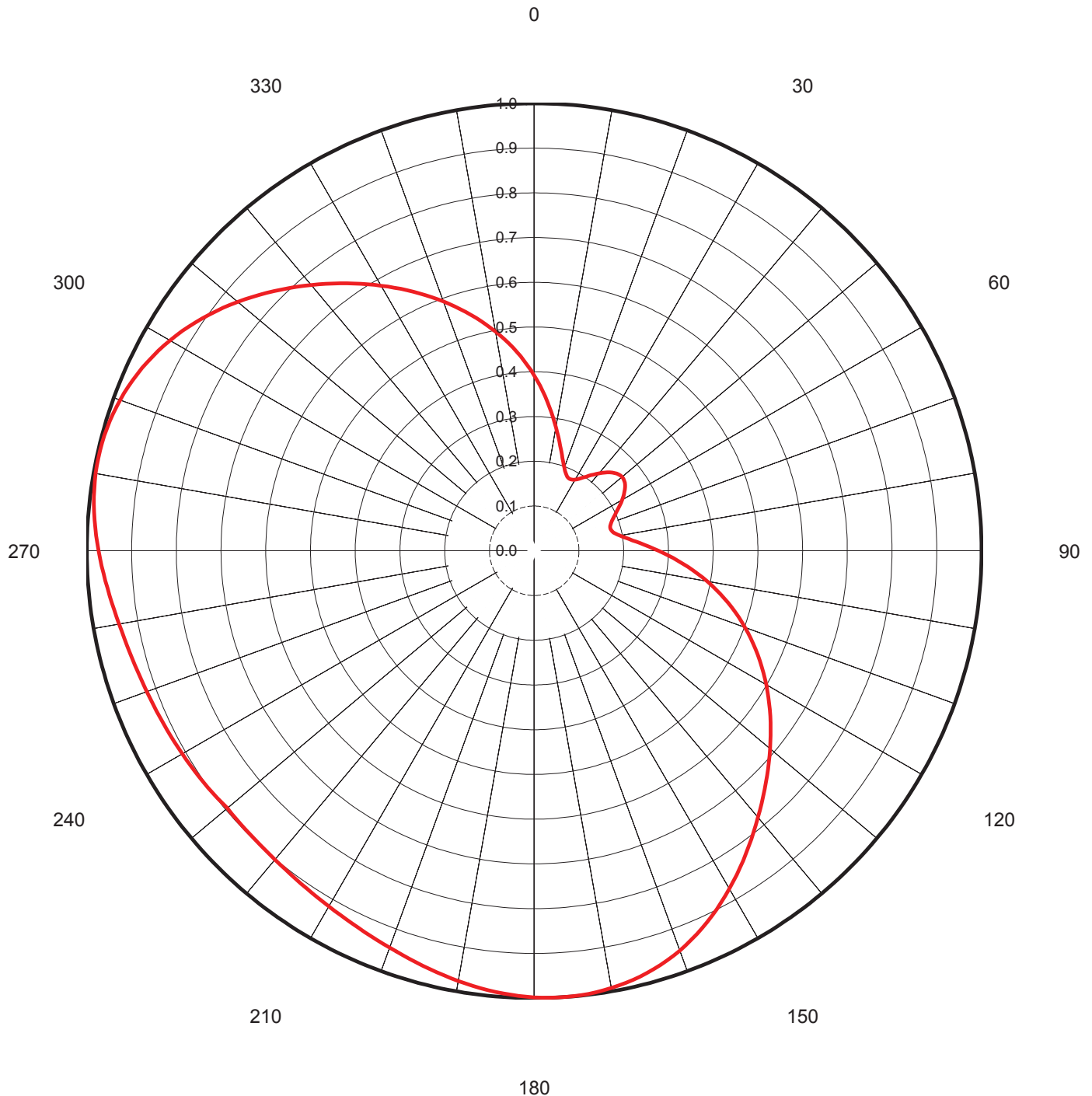
683.00 MHz

Calculated / Measured

Calculated

Drawing #

TFU-C190-D49





Proposal Number

C-06088**Exhibit 3**

Date

17-Jan-14

Call Letters

WNWO

Channel

49

Location

Toledo, Ohio

Customer

Antenna Type

TFU-12DSC/VP-R**TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **TFU-C190-D49**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.392 | 45 | 0.247 | 90 | 0.278 | 135 | 0.733 | 180 | 0.998 | 225 | 0.897 | 270 | 0.974 | 315 | 0.821 |
| 1 | 0.381 | 46 | 0.250 | 91 | 0.289 | 136 | 0.742 | 181 | 0.997 | 226 | 0.897 | 271 | 0.977 | 316 | 0.812 |
| 2 | 0.370 | 47 | 0.253 | 92 | 0.300 | 137 | 0.751 | 182 | 0.996 | 227 | 0.896 | 272 | 0.980 | 317 | 0.803 |
| 3 | 0.358 | 48 | 0.255 | 93 | 0.311 | 138 | 0.760 | 183 | 0.994 | 228 | 0.896 | 273 | 0.983 | 318 | 0.794 |
| 4 | 0.347 | 49 | 0.256 | 94 | 0.322 | 139 | 0.769 | 184 | 0.992 | 229 | 0.896 | 274 | 0.985 | 319 | 0.784 |
| 5 | 0.335 | 50 | 0.257 | 95 | 0.334 | 140 | 0.778 | 185 | 0.990 | 230 | 0.895 | 275 | 0.988 | 320 | 0.775 |
| 6 | 0.324 | 51 | 0.256 | 96 | 0.346 | 141 | 0.788 | 186 | 0.987 | 231 | 0.897 | 276 | 0.990 | 321 | 0.766 |
| 7 | 0.313 | 52 | 0.255 | 97 | 0.357 | 142 | 0.797 | 187 | 0.985 | 232 | 0.898 | 277 | 0.992 | 322 | 0.757 |
| 8 | 0.302 | 53 | 0.253 | 98 | 0.369 | 143 | 0.807 | 188 | 0.982 | 233 | 0.900 | 278 | 0.993 | 323 | 0.748 |
| 9 | 0.291 | 54 | 0.251 | 99 | 0.381 | 144 | 0.816 | 189 | 0.979 | 234 | 0.901 | 279 | 0.994 | 324 | 0.739 |
| 10 | 0.280 | 55 | 0.248 | 100 | 0.393 | 145 | 0.826 | 190 | 0.976 | 235 | 0.902 | 280 | 0.995 | 325 | 0.730 |
| 11 | 0.270 | 56 | 0.245 | 101 | 0.404 | 146 | 0.835 | 191 | 0.973 | 236 | 0.904 | 281 | 0.996 | 326 | 0.720 |
| 12 | 0.260 | 57 | 0.241 | 102 | 0.415 | 147 | 0.845 | 192 | 0.970 | 237 | 0.905 | 282 | 0.996 | 327 | 0.711 |
| 13 | 0.250 | 58 | 0.236 | 103 | 0.427 | 148 | 0.854 | 193 | 0.967 | 238 | 0.906 | 283 | 0.996 | 328 | 0.702 |
| 14 | 0.241 | 59 | 0.232 | 104 | 0.438 | 149 | 0.863 | 194 | 0.964 | 239 | 0.907 | 284 | 0.996 | 329 | 0.693 |
| 15 | 0.232 | 60 | 0.227 | 105 | 0.449 | 150 | 0.873 | 195 | 0.960 | 240 | 0.908 | 285 | 0.995 | 330 | 0.684 |
| 16 | 0.224 | 61 | 0.222 | 106 | 0.460 | 151 | 0.882 | 196 | 0.957 | 241 | 0.910 | 286 | 0.993 | 331 | 0.675 |
| 17 | 0.216 | 62 | 0.217 | 107 | 0.470 | 152 | 0.890 | 197 | 0.954 | 242 | 0.911 | 287 | 0.992 | 332 | 0.666 |
| 18 | 0.209 | 63 | 0.212 | 108 | 0.481 | 153 | 0.899 | 198 | 0.951 | 243 | 0.912 | 288 | 0.990 | 333 | 0.657 |
| 19 | 0.203 | 64 | 0.207 | 109 | 0.491 | 154 | 0.907 | 199 | 0.947 | 244 | 0.913 | 289 | 0.988 | 334 | 0.648 |
| 20 | 0.197 | 65 | 0.202 | 110 | 0.502 | 155 | 0.916 | 200 | 0.944 | 245 | 0.914 | 290 | 0.985 | 335 | 0.639 |
| 21 | 0.192 | 66 | 0.198 | 111 | 0.512 | 156 | 0.923 | 201 | 0.941 | 246 | 0.916 | 291 | 0.982 | 336 | 0.630 |
| 22 | 0.188 | 67 | 0.194 | 112 | 0.522 | 157 | 0.931 | 202 | 0.938 | 247 | 0.917 | 292 | 0.979 | 337 | 0.620 |
| 23 | 0.184 | 68 | 0.190 | 113 | 0.532 | 158 | 0.938 | 203 | 0.935 | 248 | 0.918 | 293 | 0.975 | 338 | 0.611 |
| 24 | 0.182 | 69 | 0.186 | 114 | 0.542 | 159 | 0.945 | 204 | 0.933 | 249 | 0.920 | 294 | 0.971 | 339 | 0.602 |
| 25 | 0.180 | 70 | 0.183 | 115 | 0.552 | 160 | 0.951 | 205 | 0.930 | 250 | 0.921 | 295 | 0.967 | 340 | 0.593 |
| 26 | 0.179 | 71 | 0.181 | 116 | 0.561 | 161 | 0.957 | 206 | 0.927 | 251 | 0.923 | 296 | 0.962 | 341 | 0.583 |
| 27 | 0.179 | 72 | 0.179 | 117 | 0.571 | 162 | 0.963 | 207 | 0.925 | 252 | 0.925 | 297 | 0.957 | 342 | 0.574 |
| 28 | 0.180 | 73 | 0.178 | 118 | 0.580 | 163 | 0.968 | 208 | 0.922 | 253 | 0.926 | 298 | 0.952 | 343 | 0.565 |
| 29 | 0.182 | 74 | 0.178 | 119 | 0.590 | 164 | 0.972 | 209 | 0.920 | 254 | 0.928 | 299 | 0.946 | 344 | 0.555 |
| 30 | 0.184 | 75 | 0.178 | 120 | 0.599 | 165 | 0.977 | 210 | 0.918 | 255 | 0.930 | 300 | 0.940 | 345 | 0.546 |
| 31 | 0.187 | 76 | 0.180 | 121 | 0.608 | 166 | 0.981 | 211 | 0.916 | 256 | 0.932 | 301 | 0.934 | 346 | 0.536 |
| 32 | 0.190 | 77 | 0.182 | 122 | 0.617 | 167 | 0.984 | 212 | 0.914 | 257 | 0.935 | 302 | 0.927 | 347 | 0.527 |
| 33 | 0.194 | 78 | 0.185 | 123 | 0.626 | 168 | 0.987 | 213 | 0.912 | 258 | 0.937 | 303 | 0.920 | 348 | 0.517 |
| 34 | 0.198 | 79 | 0.189 | 124 | 0.635 | 169 | 0.990 | 214 | 0.910 | 259 | 0.940 | 304 | 0.913 | 349 | 0.507 |
| 35 | 0.202 | 80 | 0.194 | 125 | 0.644 | 170 | 0.993 | 215 | 0.908 | 260 | 0.942 | 305 | 0.906 | 350 | 0.497 |
| 36 | 0.207 | 81 | 0.200 | 126 | 0.653 | 171 | 0.995 | 216 | 0.907 | 261 | 0.945 | 306 | 0.898 | 351 | 0.487 |
| 37 | 0.211 | 82 | 0.206 | 127 | 0.662 | 172 | 0.996 | 217 | 0.905 | 262 | 0.948 | 307 | 0.890 | 352 | 0.477 |
| 38 | 0.216 | 83 | 0.214 | 128 | 0.671 | 173 | 0.998 | 218 | 0.904 | 263 | 0.951 | 308 | 0.882 | 353 | 0.467 |
| 39 | 0.221 | 84 | 0.221 | 129 | 0.680 | 174 | 0.999 | 219 | 0.903 | 264 | 0.954 | 309 | 0.874 | 354 | 0.457 |
| 40 | 0.226 | 85 | 0.229 | 130 | 0.688 | 175 | 1.000 | 220 | 0.901 | 265 | 0.958 | 310 | 0.865 | 355 | 0.446 |
| 41 | 0.231 | 86 | 0.238 | 131 | 0.697 | 176 | 1.000 | 221 | 0.900 | 266 | 0.961 | 311 | 0.857 | 356 | 0.436 |
| 42 | 0.235 | 87 | 0.248 | 132 | 0.706 | 177 | 1.000 | 222 | 0.899 | 267 | 0.964 | 312 | 0.848 | 357 | 0.425 |
| 43 | 0.240 | 88 | 0.257 | 133 | 0.715 | 178 | 1.000 | 223 | 0.899 | 268 | 0.967 | 313 | 0.839 | 358 | 0.414 |
| 44 | 0.244 | 89 | 0.267 | 134 | 0.724 | 179 | 0.999 | 224 | 0.898 | 269 | 0.971 | 314 | 0.830 | 359 | 0.403 |

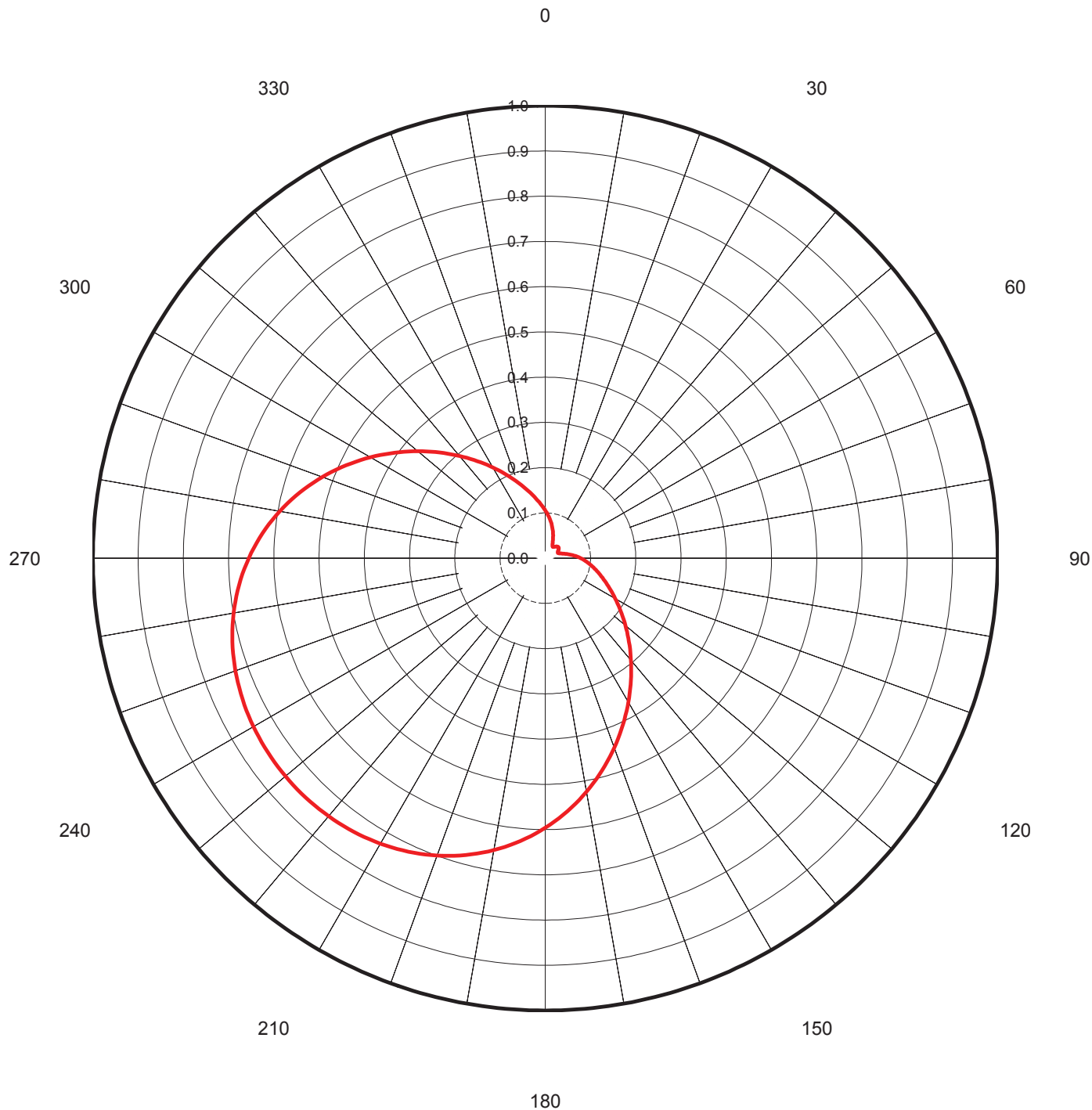
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| | | |
|-----------------|-----------------------|-------------------|
| Proposal Number | C-06088 | Exhibit 4 |
| Date | 17-Jan-14 | |
| Call Letters | WNWO | Channel 49 |
| Location | Toledo, Ohio | |
| Customer | | |
| Antenna Type | TFU-12DSC/VP-R | |

AZIMUTH PATTERN/VERTICAL POLARIZATION

| | | |
|-----------------------|-------------|-------------------|
| Gain | 2.90 | (4.62 dB) |
| Calculated / Measured | | Calculated |

| | |
|-----------|-----------------------|
| Frequency | 683.00 MHz |
| Drawing # | TFU-C190-V-D49 |





Proposal Number

C-06088**Exhibit 5**

Date

17-Jan-14

Call Letters

WNWO

Channel

49

Location

Toledo, Ohio

Customer

Antenna Type

TFU-12DSC/VP-R**TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **TFU-C190-V-D49**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.106 | 45 | 0.036 | 90 | 0.078 | 135 | 0.262 | 180 | 0.596 | 225 | 0.749 | 270 | 0.655 | 315 | 0.330 |
| 1 | 0.103 | 46 | 0.037 | 91 | 0.081 | 136 | 0.268 | 181 | 0.603 | 226 | 0.749 | 271 | 0.650 | 316 | 0.323 |
| 2 | 0.100 | 47 | 0.037 | 92 | 0.083 | 137 | 0.275 | 182 | 0.609 | 227 | 0.750 | 272 | 0.645 | 317 | 0.316 |
| 3 | 0.097 | 48 | 0.038 | 93 | 0.086 | 138 | 0.281 | 183 | 0.615 | 228 | 0.750 | 273 | 0.639 | 318 | 0.309 |
| 4 | 0.094 | 49 | 0.038 | 94 | 0.089 | 139 | 0.288 | 184 | 0.622 | 229 | 0.750 | 274 | 0.633 | 319 | 0.302 |
| 5 | 0.092 | 50 | 0.038 | 95 | 0.092 | 140 | 0.295 | 185 | 0.628 | 230 | 0.750 | 275 | 0.628 | 320 | 0.295 |
| 6 | 0.089 | 51 | 0.038 | 96 | 0.094 | 141 | 0.302 | 186 | 0.633 | 231 | 0.750 | 276 | 0.622 | 321 | 0.288 |
| 7 | 0.086 | 52 | 0.038 | 97 | 0.097 | 142 | 0.309 | 187 | 0.639 | 232 | 0.750 | 277 | 0.615 | 322 | 0.281 |
| 8 | 0.083 | 53 | 0.037 | 98 | 0.100 | 143 | 0.316 | 188 | 0.645 | 233 | 0.750 | 278 | 0.609 | 323 | 0.275 |
| 9 | 0.081 | 54 | 0.037 | 99 | 0.103 | 144 | 0.323 | 189 | 0.650 | 234 | 0.749 | 279 | 0.603 | 324 | 0.268 |
| 10 | 0.078 | 55 | 0.036 | 100 | 0.106 | 145 | 0.330 | 190 | 0.655 | 235 | 0.749 | 280 | 0.596 | 325 | 0.262 |
| 11 | 0.075 | 56 | 0.036 | 101 | 0.109 | 146 | 0.337 | 191 | 0.661 | 236 | 0.748 | 281 | 0.589 | 326 | 0.255 |
| 12 | 0.072 | 57 | 0.035 | 102 | 0.112 | 147 | 0.345 | 192 | 0.665 | 237 | 0.748 | 282 | 0.583 | 327 | 0.249 |
| 13 | 0.070 | 58 | 0.034 | 103 | 0.115 | 148 | 0.352 | 193 | 0.670 | 238 | 0.747 | 283 | 0.576 | 328 | 0.243 |
| 14 | 0.067 | 59 | 0.034 | 104 | 0.118 | 149 | 0.360 | 194 | 0.675 | 239 | 0.746 | 284 | 0.569 | 329 | 0.237 |
| 15 | 0.064 | 60 | 0.033 | 105 | 0.121 | 150 | 0.367 | 195 | 0.679 | 240 | 0.745 | 285 | 0.562 | 330 | 0.231 |
| 16 | 0.061 | 61 | 0.032 | 106 | 0.124 | 151 | 0.375 | 196 | 0.684 | 241 | 0.744 | 286 | 0.554 | 331 | 0.225 |
| 17 | 0.059 | 62 | 0.032 | 107 | 0.127 | 152 | 0.383 | 197 | 0.688 | 242 | 0.743 | 287 | 0.547 | 332 | 0.220 |
| 18 | 0.056 | 63 | 0.031 | 108 | 0.130 | 153 | 0.391 | 198 | 0.692 | 243 | 0.741 | 288 | 0.539 | 333 | 0.214 |
| 19 | 0.053 | 64 | 0.030 | 109 | 0.134 | 154 | 0.398 | 199 | 0.696 | 244 | 0.740 | 289 | 0.532 | 334 | 0.209 |
| 20 | 0.051 | 65 | 0.030 | 110 | 0.137 | 155 | 0.406 | 200 | 0.700 | 245 | 0.738 | 290 | 0.524 | 335 | 0.203 |
| 21 | 0.048 | 66 | 0.030 | 111 | 0.141 | 156 | 0.414 | 201 | 0.703 | 246 | 0.737 | 291 | 0.517 | 336 | 0.198 |
| 22 | 0.046 | 67 | 0.030 | 112 | 0.145 | 157 | 0.422 | 202 | 0.707 | 247 | 0.735 | 292 | 0.509 | 337 | 0.193 |
| 23 | 0.043 | 68 | 0.030 | 113 | 0.149 | 158 | 0.430 | 203 | 0.710 | 248 | 0.733 | 293 | 0.501 | 338 | 0.188 |
| 24 | 0.041 | 69 | 0.031 | 114 | 0.152 | 159 | 0.438 | 204 | 0.713 | 249 | 0.731 | 294 | 0.493 | 339 | 0.183 |
| 25 | 0.039 | 70 | 0.032 | 115 | 0.157 | 160 | 0.446 | 205 | 0.716 | 250 | 0.729 | 295 | 0.486 | 340 | 0.179 |
| 26 | 0.037 | 71 | 0.033 | 116 | 0.161 | 161 | 0.454 | 206 | 0.719 | 251 | 0.726 | 296 | 0.478 | 341 | 0.174 |
| 27 | 0.035 | 72 | 0.034 | 117 | 0.165 | 162 | 0.462 | 207 | 0.721 | 252 | 0.724 | 297 | 0.470 | 342 | 0.169 |
| 28 | 0.034 | 73 | 0.035 | 118 | 0.169 | 163 | 0.470 | 208 | 0.724 | 253 | 0.721 | 298 | 0.462 | 343 | 0.165 |
| 29 | 0.033 | 74 | 0.037 | 119 | 0.174 | 164 | 0.478 | 209 | 0.726 | 254 | 0.719 | 299 | 0.454 | 344 | 0.161 |
| 30 | 0.032 | 75 | 0.039 | 120 | 0.179 | 165 | 0.486 | 210 | 0.729 | 255 | 0.716 | 300 | 0.446 | 345 | 0.157 |
| 31 | 0.031 | 76 | 0.041 | 121 | 0.183 | 166 | 0.493 | 211 | 0.731 | 256 | 0.713 | 301 | 0.438 | 346 | 0.152 |
| 32 | 0.030 | 77 | 0.043 | 122 | 0.188 | 167 | 0.501 | 212 | 0.733 | 257 | 0.710 | 302 | 0.430 | 347 | 0.149 |
| 33 | 0.030 | 78 | 0.046 | 123 | 0.193 | 168 | 0.509 | 213 | 0.735 | 258 | 0.707 | 303 | 0.422 | 348 | 0.145 |
| 34 | 0.030 | 79 | 0.048 | 124 | 0.198 | 169 | 0.517 | 214 | 0.737 | 259 | 0.703 | 304 | 0.414 | 349 | 0.141 |
| 35 | 0.030 | 80 | 0.051 | 125 | 0.203 | 170 | 0.524 | 215 | 0.738 | 260 | 0.700 | 305 | 0.406 | 350 | 0.137 |
| 36 | 0.030 | 81 | 0.053 | 126 | 0.209 | 171 | 0.532 | 216 | 0.740 | 261 | 0.696 | 306 | 0.398 | 351 | 0.134 |
| 37 | 0.031 | 82 | 0.056 | 127 | 0.214 | 172 | 0.539 | 217 | 0.741 | 262 | 0.692 | 307 | 0.391 | 352 | 0.130 |
| 38 | 0.032 | 83 | 0.059 | 128 | 0.220 | 173 | 0.547 | 218 | 0.743 | 263 | 0.688 | 308 | 0.383 | 353 | 0.127 |
| 39 | 0.032 | 84 | 0.061 | 129 | 0.225 | 174 | 0.554 | 219 | 0.744 | 264 | 0.684 | 309 | 0.375 | 354 | 0.124 |
| 40 | 0.033 | 85 | 0.064 | 130 | 0.231 | 175 | 0.562 | 220 | 0.745 | 265 | 0.679 | 310 | 0.367 | 355 | 0.121 |
| 41 | 0.034 | 86 | 0.067 | 131 | 0.237 | 176 | 0.569 | 221 | 0.746 | 266 | 0.675 | 311 | 0.360 | 356 | 0.118 |
| 42 | 0.034 | 87 | 0.070 | 132 | 0.243 | 177 | 0.576 | 222 | 0.747 | 267 | 0.670 | 312 | 0.352 | 357 | 0.115 |
| 43 | 0.035 | 88 | 0.072 | 133 | 0.249 | 178 | 0.583 | 223 | 0.748 | 268 | 0.665 | 313 | 0.345 | 358 | 0.112 |
| 44 | 0.036 | 89 | 0.075 | 134 | 0.255 | 179 | 0.589 | 224 | 0.748 | 269 | 0.661 | 314 | 0.337 | 359 | 0.109 |

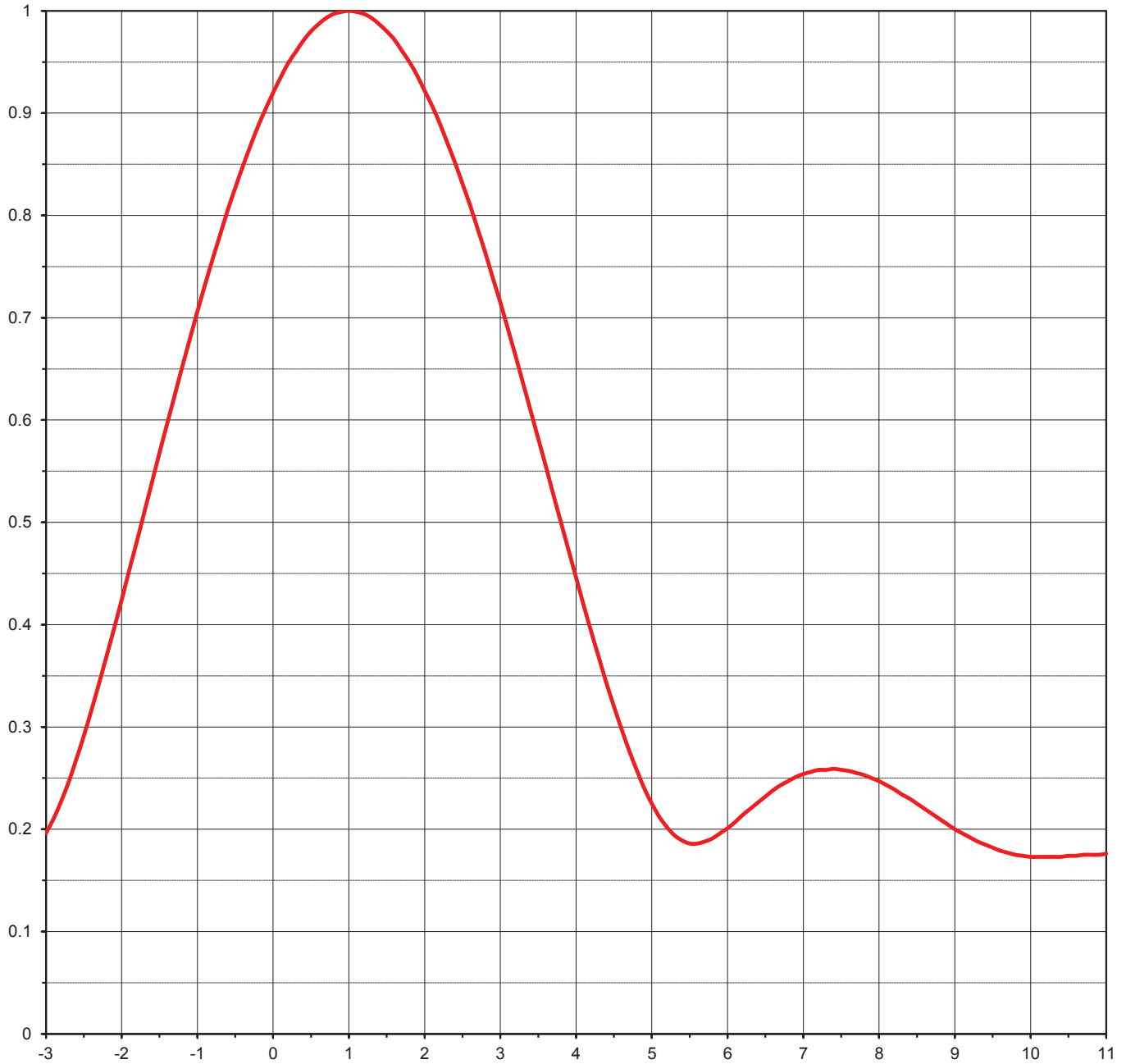
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| | | |
|-----------------|-----------------------|-------------------|
| Proposal Number | C-06088 | Exhibit 6 |
| Date | 17-Jan-14 | |
| Call Letters | WNWO | Channel 49 |
| Location | Toledo, Ohio | |
| Customer | | |
| Antenna Type | TFU-12DSC/VP-R | |

ELEVATION PATTERN

| | | | |
|------------------------|---------------------------|-----------|-------------------|
| RMS Gain at Main Lobe | 12.00 (10.79 dB) | Beam Tilt | 1.00 deg |
| RMS Gain at Horizontal | 10.20 (10.09 dB) | Frequency | 683.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 12Q120100 |



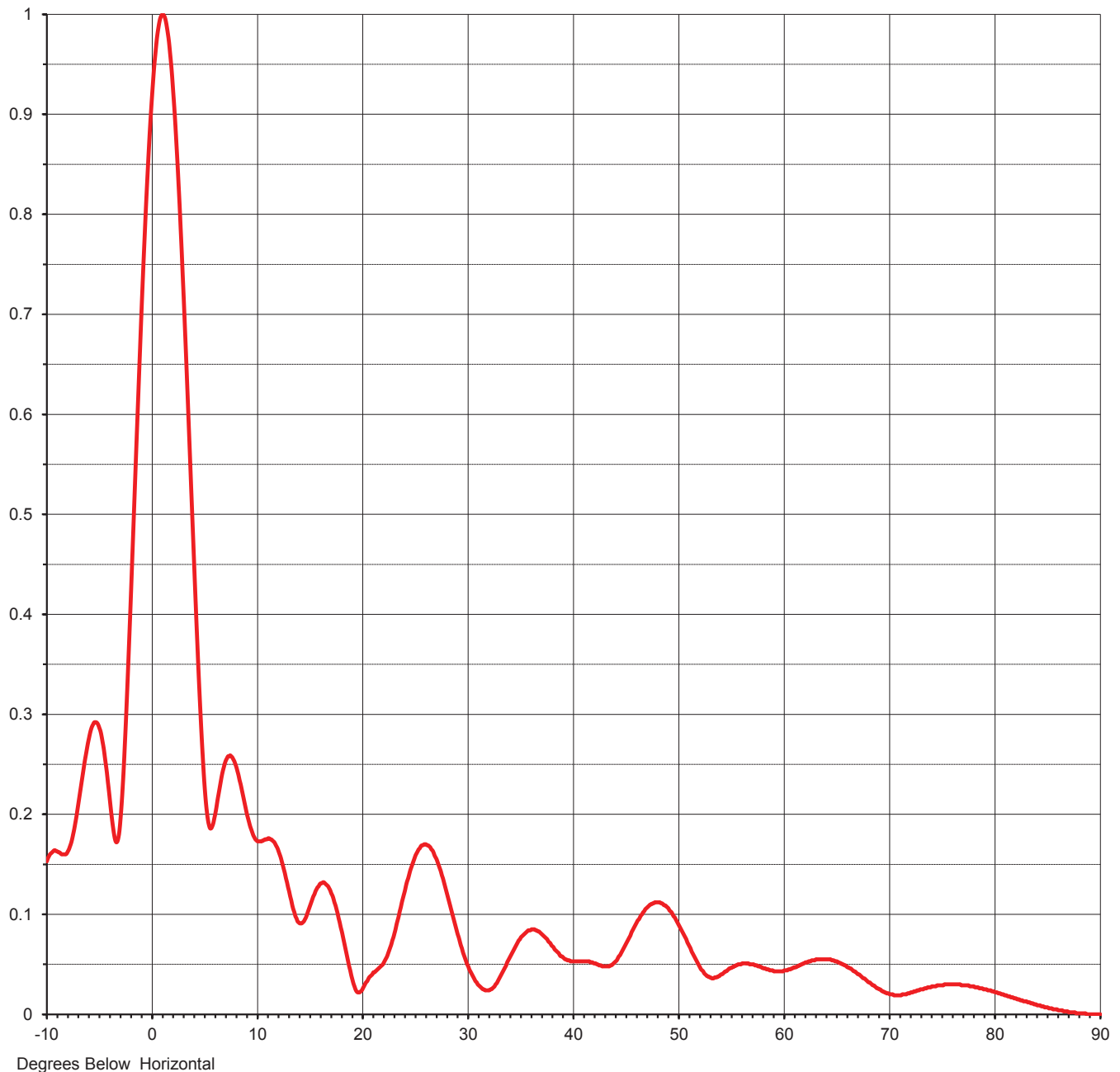
Degrees Below Horizontal



| | | |
|-----------------|-----------------------|-------------------|
| Proposal Number | C-06088 | Exhibit 7 |
| Date | 17-Jan-14 | |
| Call Letters | WNWO | Channel 49 |
| Location | Toledo, Ohio | |
| Customer | | |
| Antenna Type | TFU-12DSC/VP-R | |

ELEVATION PATTERN

| | | | |
|------------------------|---------------------------|-----------|---------------------|
| RMS Gain at Main Lobe | 12.00 (10.79 dB) | Beam Tilt | 1.00 deg |
| RMS Gain at Horizontal | 10.20 (10.09 dB) | Frequency | 683.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 12Q120100-90 |





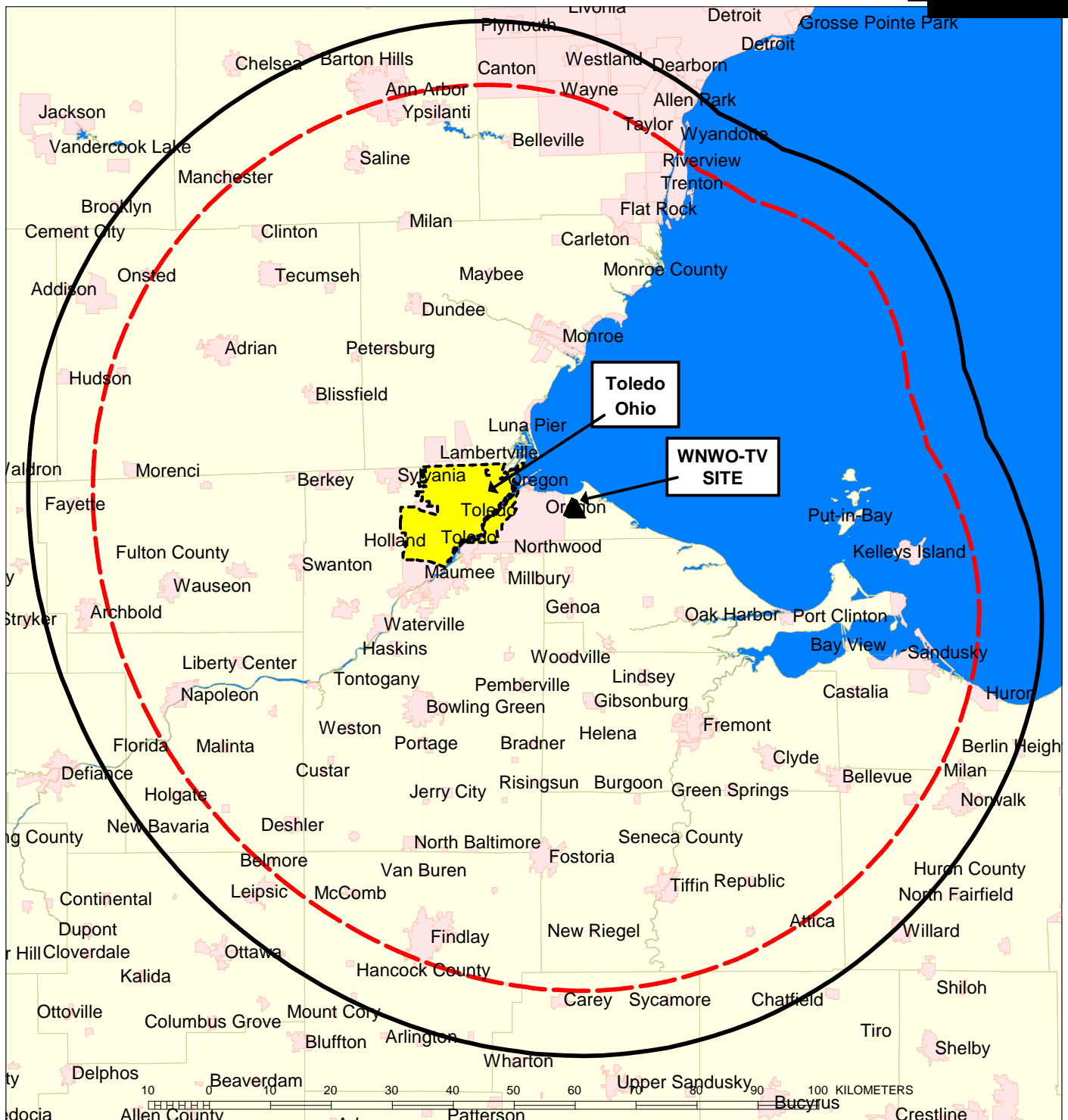
Proposal Number **C-06088** **Exhibit 8**
Date **17-Jan-14**
Call Letters **WNWO** Channel **49**
Location **Toledo, Ohio**
Customer
Antenna Type **TFU-12DSC/VP-R**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **12Q120100-90**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.153 | 2.4 | 0.852 | 10.6 | 0.174 | 30.5 | 0.039 | 51.0 | 0.070 | 71.5 | 0.020 |
| -9.5 | 0.162 | 2.6 | 0.810 | 10.8 | 0.175 | 31.0 | 0.030 | 51.5 | 0.059 | 72.0 | 0.022 |
| -9.0 | 0.163 | 2.8 | 0.764 | 11.0 | 0.175 | 31.5 | 0.025 | 52.0 | 0.049 | 72.5 | 0.023 |
| -8.5 | 0.160 | 3.0 | 0.715 | 11.5 | 0.174 | 32.0 | 0.024 | 52.5 | 0.041 | 73.0 | 0.025 |
| -8.0 | 0.163 | 3.2 | 0.663 | 12.0 | 0.166 | 32.5 | 0.027 | 53.0 | 0.037 | 73.5 | 0.026 |
| -7.5 | 0.180 | 3.4 | 0.609 | 12.5 | 0.149 | 33.0 | 0.035 | 53.5 | 0.037 | 74.0 | 0.028 |
| -7.0 | 0.211 | 3.6 | 0.555 | 13.0 | 0.127 | 33.5 | 0.045 | 54.0 | 0.039 | 74.5 | 0.029 |
| -6.5 | 0.246 | 3.8 | 0.500 | 13.5 | 0.105 | 34.0 | 0.056 | 54.5 | 0.043 | 75.0 | 0.029 |
| -6.0 | 0.276 | 4.0 | 0.446 | 14.0 | 0.092 | 34.5 | 0.066 | 55.0 | 0.046 | 75.5 | 0.030 |
| -5.5 | 0.292 | 4.2 | 0.393 | 14.5 | 0.093 | 35.0 | 0.075 | 55.5 | 0.049 | 76.0 | 0.030 |
| -5.0 | 0.286 | 4.4 | 0.343 | 15.0 | 0.106 | 35.5 | 0.081 | 56.0 | 0.050 | 76.5 | 0.030 |
| -4.5 | 0.258 | 4.6 | 0.298 | 15.5 | 0.120 | 36.0 | 0.084 | 56.5 | 0.051 | 77.0 | 0.029 |
| -4.0 | 0.213 | 4.8 | 0.258 | 16.0 | 0.130 | 36.5 | 0.084 | 57.0 | 0.050 | 77.5 | 0.029 |
| -3.5 | 0.174 | 5.0 | 0.225 | 16.5 | 0.131 | 37.0 | 0.081 | 57.5 | 0.049 | 78.0 | 0.028 |
| -3.0 | 0.196 | 5.2 | 0.202 | 17.0 | 0.124 | 37.5 | 0.076 | 58.0 | 0.047 | 78.5 | 0.026 |
| -2.8 | 0.227 | 5.4 | 0.189 | 17.5 | 0.109 | 38.0 | 0.069 | 58.5 | 0.045 | 79.0 | 0.025 |
| -2.6 | 0.268 | 5.6 | 0.186 | 18.0 | 0.087 | 38.5 | 0.063 | 59.0 | 0.044 | 79.5 | 0.024 |
| -2.4 | 0.316 | 5.8 | 0.191 | 18.5 | 0.063 | 39.0 | 0.058 | 59.5 | 0.043 | 80.0 | 0.022 |
| -2.2 | 0.369 | 6.0 | 0.201 | 19.0 | 0.039 | 39.5 | 0.054 | 60.0 | 0.043 | 80.5 | 0.021 |
| -2.0 | 0.424 | 6.2 | 0.214 | 19.5 | 0.023 | 40.0 | 0.053 | 60.5 | 0.045 | 81.0 | 0.019 |
| -1.8 | 0.481 | 6.4 | 0.226 | 20.0 | 0.024 | 40.5 | 0.053 | 61.0 | 0.047 | 81.5 | 0.017 |
| -1.6 | 0.539 | 6.6 | 0.238 | 20.5 | 0.033 | 41.0 | 0.053 | 61.5 | 0.049 | 82.0 | 0.016 |
| -1.4 | 0.596 | 6.8 | 0.247 | 21.0 | 0.040 | 41.5 | 0.053 | 62.0 | 0.051 | 82.5 | 0.014 |
| -1.2 | 0.652 | 7.0 | 0.254 | 21.5 | 0.045 | 42.0 | 0.051 | 62.5 | 0.053 | 83.0 | 0.013 |
| -1.0 | 0.706 | 7.2 | 0.258 | 22.0 | 0.050 | 42.5 | 0.049 | 63.0 | 0.054 | 83.5 | 0.011 |
| -0.8 | 0.757 | 7.4 | 0.259 | 22.5 | 0.061 | 43.0 | 0.048 | 63.5 | 0.055 | 84.0 | 0.009 |
| -0.6 | 0.805 | 7.6 | 0.257 | 23.0 | 0.077 | 43.5 | 0.048 | 64.0 | 0.055 | 84.5 | 0.008 |
| -0.4 | 0.848 | 7.8 | 0.253 | 23.5 | 0.098 | 44.0 | 0.052 | 64.5 | 0.054 | 85.0 | 0.007 |
| -0.2 | 0.887 | 8.0 | 0.247 | 24.0 | 0.120 | 44.5 | 0.059 | 65.0 | 0.053 | 85.5 | 0.005 |
| 0.0 | 0.920 | 8.2 | 0.239 | 24.5 | 0.140 | 45.0 | 0.069 | 65.5 | 0.050 | 86.0 | 0.004 |
| 0.2 | 0.949 | 8.4 | 0.230 | 25.0 | 0.156 | 45.5 | 0.079 | 66.0 | 0.047 | 86.5 | 0.003 |
| 0.4 | 0.971 | 8.6 | 0.220 | 25.5 | 0.166 | 46.0 | 0.090 | 66.5 | 0.044 | 87.0 | 0.002 |
| 0.6 | 0.987 | 8.8 | 0.210 | 26.0 | 0.170 | 46.5 | 0.099 | 67.0 | 0.040 | 87.5 | 0.002 |
| 0.8 | 0.997 | 9.0 | 0.200 | 26.5 | 0.167 | 47.0 | 0.106 | 67.5 | 0.036 | 88.0 | 0.001 |
| 1.0 | 1.000 | 9.2 | 0.192 | 27.0 | 0.157 | 47.5 | 0.110 | 68.0 | 0.032 | 88.5 | 0.001 |
| 1.2 | 0.997 | 9.4 | 0.185 | 27.5 | 0.143 | 48.0 | 0.112 | 68.5 | 0.029 | 89.0 | 0.000 |
| 1.4 | 0.987 | 9.6 | 0.179 | 28.0 | 0.124 | 48.5 | 0.111 | 69.0 | 0.025 | 89.5 | 0.000 |
| 1.6 | 0.972 | 9.8 | 0.177 | 28.5 | 0.104 | 49.0 | 0.107 | 69.5 | 0.022 | 90.0 | 0.000 |
| 1.8 | 0.950 | 10.0 | 0.174 | 29.0 | 0.084 | 49.5 | 0.100 | 70.0 | 0.020 | | |
| 2.0 | 0.922 | 10.2 | 0.173 | 29.5 | 0.066 | 50.0 | 0.091 | 70.5 | 0.019 | | |
| 2.2 | 0.890 | 10.4 | 0.173 | 30.0 | 0.050 | 50.5 | 0.081 | 71.0 | 0.019 | | |

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PREDICTED COVERAGE CONTOURS

WNWO-TV TOLEDO, OHIO

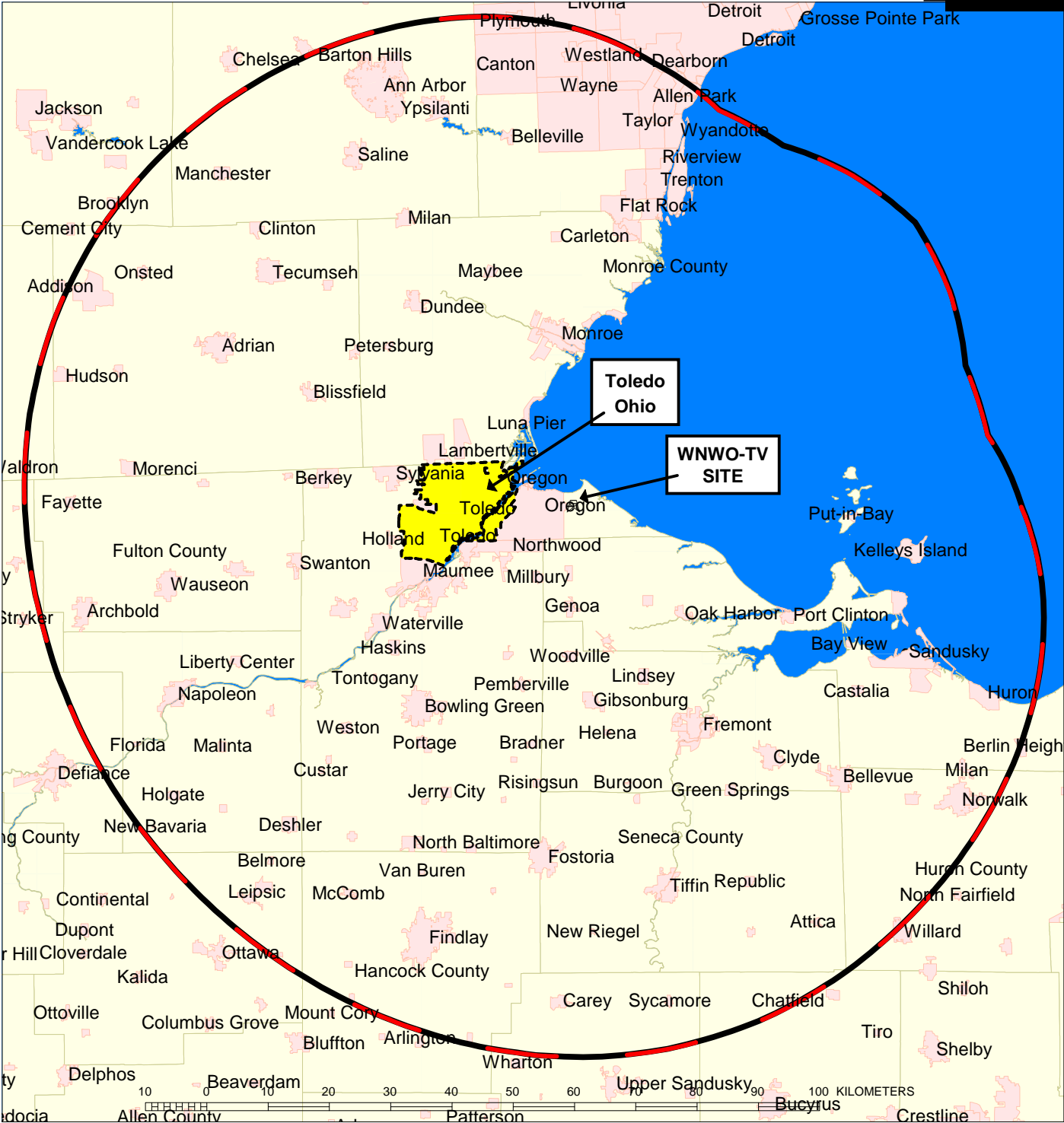
DTV - CH 49 - 105 kW - 423.5 HAAT

Predicted Principal Community Contour
F(50,90) - 48 dBu
Area = 16,100 sq km
Population = 1,562,988

February 2014

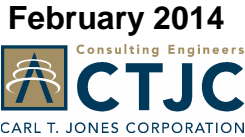


Predicted Noise Limited Contour
F(50,90) - 41 dBu
Area = 21,045 sq km
Population = 2,312,206



PREDICTED COVERAGE CONTOURS
WNWO-TV TOLEDO, OHIO
LICENSED V. PROPOSED

Predicted Noise Limited Contour
F(50,90) - 41 dBu - DTV
Licensed Facility
CH 49 - 118 kW - 409.0 m HAAT



Predicted Noise Limited Contour
F(50,90) - 41 dBu - DTV
Proposed Modified Facility
CH 49 - 105 kW - 423.5 m HAAT

**SUMMARY OF RADIOFREQUENCY
RADIATION STUDY**
WNWO-TV, TOLEDO, OHIO
CHANNEL 49, 105 kW ERP, 423.5 m HAAT
FEBRUARY, 2014

| <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> |
|-------------|----------------|----------------|------------------|---------------------|---------------------------------------|---------------------|--|--|---|--|
| WNWO-TV | DT | 49 | 683 | H & V | 422.7 | 105.000 | 0.300 | 0.00353 | 0.455 | 0.78% |

TOTAL PERCENTAGE OF ANSI VALUE= 0.78%

*** 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.





LONGLEY-RICE INTERFERENCE ANALYSIS
WNWO-TV - Channel 49
105 kW - 423.5 meters HAAT
TOLEDO, OHIO
FEBRUARY 2014

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
Census data selected 2000
Data Base Selected
./data/tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-25-2014 Time: 15:01:53

Record Selected for Analysis

WNWO-TV BLCDD -20120817ABH TOLEDO OH US
Channel 49 ERP 105 kW HAAT 423. m RCAMSL 601.2 m
Latitude 041-40- 3 Longitude 0083-21-22
Status LIC Zone 1 Border C Site number: 01
Dir Antenna Make CDB Model 00000000097309 Beam tilt N Ref Azimuth 0.0
Last update 00000000 Cutoff date 20120914 Docket
Comments

Applicant WNWO LICENSEE, LLC

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

| Site number | 1 | | |
|-------------|---------|-------|-------------------|
| Azimuth | ERP | HAAT | 41.0 dBu F(50,90) |
| (Deg) | (kW) | (m) | (km) |
| 0.0 | 16.135 | 427.2 | 76.7 |
| 45.0 | 6.124 | 427.2 | 70.5 |
| 90.0 | 8.115 | 427.0 | 72.3 |
| 135.0 | 56.415 | 423.5 | 84.8 |
| 180.0 | 104.580 | 417.8 | 88.7 |
| 225.0 | 84.672 | 416.9 | 87.2 |
| 270.0 | 99.611 | 421.5 | 88.5 |
| 315.0 | 70.602 | 426.9 | 86.4 |

Evaluation toward Class A Stations from site # 01

Station inside contour of Class A station
WMNT-CA 48 TOLEDO OH BLTTL 19990607JB

Class A Evaluation Complete

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 2

SPACING VIOLATION FOUND BETWEEN STATION

WNWO-TV 49 TOLEDO OH BLCDT 20120817ABH Site # 01
 and station

SHORT TO: WDLI-TV 49 CANTON OH BLCDT 20101129ALX
 041-03-20 0081-35-38
 Req. separation 196.3 Actual separation 162.4 Short 33.9 km

SHORT TO: WPXD-TV 50 ANN ARBOR MI BLCDT 20120801ADY
 042-29- 1 0083-18-44
 Req. separation => 24.0 <= 110.0 Actual separation 90.7 Short 19.3(66.7) km

SHORT TO: WNWO-TV 49 TOLEDO OH DTVPLN DTVP1748
 041-40- 3 0083-21-22
 Req. separation 196.3 Actual separation 0.0 Short 196.3 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
 Distance to border = 31.8km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

 Start of Interference Analysis

| Channel | Proposed Station Call | City/State | ARN |
|---------|--------------------------|------------|-------------------|
| 49 | WNWO-TV | TOLEDO OH | BLCDT 20120817ABH |

| Chans | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|-------|---------|----------------|----------|--------|-------------|-------------|
| 35 | W35AX | CLEVELAND OH | 141.7 | LIC | BLTTL | 19960513JX |
| 41 | WOHZ-CA | MANSFIELD OH | 117.9 | LIC | BLTTA | 20060809AHP |
| 48 | WAQP | SAGINAW MI | 182.0 | LIC | BLCDT | 20060824ADS |
| 48 | WSYX | COLUMBUS OH | 194.4 | LIC | BLCDT | 20100913ACJ |
| 48 | WMNT-CA | TOLEDO OH | 14.5 | CP | BDFCDTA | 20120411AAS |
| 48 | WMNT-CA | TOLEDO OH | 14.5 | LIC | BLTTL | 19990607JB |
| 49 | WOCH-CA | CHICAGO IL | 354.5 | CP MOD | BMPDTA | 20100409AAK |
| 49 | WDRB | LOUISVILLE KY | 425.4 | LIC | BLCDT | 20091009AAQ |
| 49 | WNYO-TV | BUFFALO NY | 421.7 | CP | BPCDT | 20090717AED |
| 49 | WNYO-TV | BUFFALO NY | 421.7 | LIC | BLCDT | 20090619ABO |
| 49 | WDLI-TV | CANTON OH | 162.0 | LIC | BLCDT | 20101129ALX |
| 49 | WTAP-TV | PARKERSBURG WV | 298.7 | LIC | BLCDT | 20120109ACS |
| 50 | WPXD-TV | ANN ARBOR MI | 90.8 | LIC | BLCDT | 20120801ADY |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 3

| | | | | | | |
|----|---------|--------------|-------|-----|-------|-------------|
| 50 | WOKZ-CD | KALAMAZOO MI | 201.3 | LIC | BLDTA | 20120306AAW |
| 50 | WEAO | AKRON OH | 157.7 | LIC | BLEDT | 20091022AAS |

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|--------------|-------------|-------------|
| 35 | W35AX | CLEVELAND OH | BLTTL | -19960513JX |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 28 | WUAB | LORAIN OH | 2.1 | LIC | BLCDDT | -20020516AAG |
| 31 | WJW-DR | CLEVELAND OH | 2.9 | APP | BPRM | -20110111ACO |
| 34 | WQHS-DT | CLEVELAND OH | 0.5 | LIC | BLCDDT | -20031030AGJ |
| 35 | WNIT | SOUTH BEND IN | 374.9 | LIC | BLEDT | -20110516ADN |
| 35 | WOUC-TV | CAMBRIDGE OH | 147.6 | LIC | BLEDT | -20050427AAB |
| 35 | WLWT | CINCINNATI OH | 347.2 | LIC | BLCDDT | -20050502ABC |
| 36 | WYTV | YOUNGSTOWN OH | 95.6 | LIC | BLCDDT | -20100422ABQ |
| 42 | WGGN-TV | SANDUSKY OH | 71.9 | LIC | BLCDDT | -20090309AAV |
| 49 | WDLI-TV | CANTON OH | 37.5 | LIC | BLCDDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 141.7 | LIC | BLCDDT | -20120817ABH |
| 50 | WEAO | AKRON OH | 33.9 | LIC | BLEDT | -20091022AAS |
| 49 | WNWO-TV | TOLEDO OH | 141.7 | PLN | DTVPLN | -DTVP1748 |

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 2

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|--------------|-------------|--------------|
| 41 | WOHZ-CA | MANSFIELD OH | BLTTA | -20060809AHP |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 34 | WQHS-DT | CLEVELAND OH | 103.1 | LIC | BLCDDT | -20031030AGJ |
| 38 | WOSU-TV | COLUMBUS OH | 72.0 | LIC | BLEDT | -20100907AAU |
| 40 | WHIZ-TV | ZANESVILLE OH | 107.2 | LIC | BLCDDT | -20080222AAV |
| 41 | WXYZ-TV | DETROIT MI | 196.8 | APP | BXMLCDDT | -20120809AAY |
| 41 | WXYZ-TV | DETROIT MI | 196.8 | LIC | BLCDDT | -20081222AAS |
| 41 | WHIO-TV | DAYTON OH | 179.5 | LIC | BLCDDT | -20100802AZK |
| 41 | WKBN-TV | YOUNGSTOWN OH | 168.8 | LIC | BLCDDT | -20120224AAD |
| 41 | WCHS-TV | CHARLESTON WV | 268.9 | LIC | BLCDDT | -20050621AAQ |
| 42 | WGGN-TV | SANDUSKY OH | 37.3 | LIC | BLCDDT | -20090309AAV |
| 44 | WTLW | LIMA OH | 131.8 | LIC | BLCDDT | -20081209AAB |
| 45 | WNEO | ALLIANCE OH | 144.4 | LIC | BLEDT | -20090129AAN |
| 48 | WSYX | COLUMBUS OH | 98.0 | LIC | BLCDDT | -20100913ACJ |
| 49 | WDLI-TV | CANTON OH | 91.9 | LIC | BLCDDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 117.9 | LIC | BLCDDT | -20120817ABH |
| 56 | NEW | DEFIANCE OH | 115.9 | APP | BPRM | -20030718AIQ |
| 49 | WNWO-TV | TOLEDO OH | 117.9 | PLN | DTVPLN | -DTVP1748 |

Proposed station is beyond the site to
nearest cell evaluation distance

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 4

#####

Analysis of Interference to Affected Station 3

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 48 | WAQP | SAGINAW MI | BLCDT | -20060824ADS |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------------|----------|--------|-------------|--------------|
| 47 | WPBN-DR | TRAVERSE CITY MI | 188.1 | APP | BPRM | -20090724AEF |
| 47 | WPBN-TV | TRAVERSE CITY MI | 188.1 | LIC | BLCDT | -20091203AHC |
| 48 | WHME-TV | SOUTH BEND IN | 250.1 | LIC | BLCDT | -20060109ABG |
| 48 | WJMN-TV | ESCANABA MI | 396.4 | LIC | BLCDT | -20101008ABV |
| 48 | WSYX | COLUMBUS OH | 375.0 | LIC | BLCDT | -20100913ACJ |
| 48 | WMLW-TV | RACINE WI | 314.5 | LIC | BLCDT | -20090807ACD |
| 49 | WNWO-TV | TOLEDO OH | 182.0 | LIC | BLCDT | -20120817ABH |
| 49 | WNWO-TV | TOLEDO OH | 182.0 | PLN | DTVPLN | -DTVPL1748 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 4

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|-------------|-------------|--------------|
| 48 | WSYX | COLUMBUS OH | BLCDT | -20100913ACJ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|----------------|----------|--------|-------------|--------------|
| 47 | WRLM | CANTON OH | 193.0 | CP | BPCDT | -20110830ACB |
| 47 | WRLM | CANTON OH | 193.0 | LIC | BLCDT | -20060222AAK |
| 48 | WTTV | BLOOMINGTON IN | 273.9 | LIC | BLCDT | -20060630ACD |
| 48 | WTTV | BLOOMINGTON IN | 273.9 | CP | BPCDT | -20100324AAF |
| 48 | WTTV-DR | BLOOMINGTON IN | 273.9 | LIC | BPRM | -20030820AEO |
| 48 | WHME-TV | SOUTH BEND IN | 322.2 | LIC | BLCDT | -20060109ABG |
| 48 | WAQP | SAGINAW MI | 375.0 | LIC | BLCDT | -20060824ADS |
| 48 | WPXI | PITTSBURGH PA | 262.7 | LIC | BLCDT | -20050609AAQ |
| 48 | WVLR | TAZEWELL TN | 412.3 | LIC | BLCDT | -20090507ACB |
| 49 | WDLI-TV | CANTON OH | 173.2 | LIC | BLCDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 194.4 | LIC | BLCDT | -20120817ABH |
| 49 | WTAP-TV | PARKERSBURG WV | 140.6 | LIC | BLCDT | -20120109ACS |
| 49 | WNWO-TV | TOLEDO OH | 194.4 | PLN | DTVPLN | -DTVPL1748 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 5

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|--------------|
| 48 | WMNT-CA | TOLEDO OH | BDFCDTA | -20120411AAS |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|----------------|----------|--------|-------------|--------------|
| 48 | WTTV | BLOOMINGTON IN | 333.5 | LIC | BLCDT | -20060630ACD |
| 48 | WTTV | BLOOMINGTON IN | 333.5 | CP | BPCDT | -20100324AAF |
| 48 | WTTV-DR | BLOOMINGTON IN | 333.5 | LIC | BPRM | -20030820AEO |
| 48 | WHME-TV | SOUTH BEND IN | 218.6 | LIC | BLCDT | -20060109ABG |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 5

| | | | | | | |
|----|---------|---------------|-------|-----|---------|--------------|
| 48 | W48AV | DETROIT MI | 104.8 | CP | BDFCDTL | -20060323AFZ |
| 48 | WAQP | SAGINAW MI | 179.5 | LIC | BLCDT | -20060824ADS |
| 48 | WSYX | COLUMBUS OH | 195.5 | LIC | BLCDT | -20100913ACJ |
| 48 | WCPX-LP | COLUMBUS OH | 186.9 | LIC | BLTTL | -20080131ADD |
| 48 | WPXI | PITTSBURGH PA | 323.7 | LIC | BLCDT | -20050609AAQ |
| 49 | WNWO-TV | TOLEDO OH | 14.5 | LIC | BLCDT | -20120817ABH |
| 49 | WNWO-TV | TOLEDO OH | 14.5 | PLN | DTVPLN | -DTVP1748 |

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 5
 Before Analysis

Results for: 48A OH TOLEDO BDFCDTA 20120411AAS CP
 HAAT 0.0 m, ATV ERP 15.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 758128 | 6122.0 |
| not affected by terrain losses | 758128 | 6122.0 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 109 | 4.0 |
| lost to ATV IX only | 109 | 4.0 |
| lost to all IX | 109 | 4.0 |

Potential Interfering Stations Included in above Scenario 1
 49A OH TOLEDO DTVPLN DTVP1748 PLN

After Analysis

Results for: 48A OH TOLEDO BDFCDTA 20120411AAS CP
 HAAT 0.0 m, ATV ERP 15.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 758128 | 6122.0 |
| not affected by terrain losses | 758128 | 6122.0 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 661 | 8.1 |
| lost to ATV IX only | 661 | 8.1 |
| lost to all IX | 661 | 8.1 |

Potential Interfering Stations Included in above Scenario 1
 49A OH TOLEDO BLCDT 20120817ABH LIC

Percent new IX = 0.0728%

Worst case new IX 0.0728% Scenario 1

#####

Analysis of Interference to Affected Station 6

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|-------------|
| 48 | WMNT-CA | TOLEDO OH | BLTTL | -19990607JB |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|--------------|
| 40 | WKAR-TV | EAST LANSING MI | 137.4 | LIC | BLEDT | -20110817ACE |
| 41 | WXYZ-TV | DETROIT MI | 93.7 | APP | BXMLCDT | -20120809AAY |
| 41 | WXYZ-TV | DETROIT MI | 93.7 | LIC | BLCDT | -20081222AAS |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 6

| | | | | | | |
|----|---------|----------------|-------|-----|--------|--------------|
| 44 | WWJ-TV | DETROIT MI | 93.1 | LIC | BLCDT | -20100419AAS |
| 44 | WTLW | LIMA OH | 113.0 | LIC | BLCDT | -20081209AAB |
| 45 | WDIV-TV | DETROIT MI | 96.0 | LIC | BLCDT | -20090624ABW |
| 46 | WUPW | TOLEDO OH | 7.1 | LIC | BLCDT | -20030411AAF |
| 46 | WUPW | TOLEDO OH | 7.1 | CP | BPCDT | -20080619AJB |
| 48 | WTTV | BLOOMINGTON IN | 333.5 | LIC | BLCDT | -20060630ACD |
| 48 | WTTV | BLOOMINGTON IN | 333.5 | CP | BPCDT | -20100324AAF |
| 48 | WTTV-DR | BLOOMINGTON IN | 333.5 | LIC | BPRM | -20030820AEO |
| 48 | WHME-TV | SOUTH BEND IN | 218.6 | LIC | BLCDT | -20060109ABG |
| 48 | WAQP | SAGINAW MI | 179.5 | LIC | BLCDT | -20060824ADS |
| 48 | WSYX | COLUMBUS OH | 195.5 | LIC | BLCDT | -20100913ACJ |
| 48 | WCPX-LP | COLUMBUS OH | 186.9 | LIC | BLTTL | -20080131ADD |
| 48 | WPXI | PITTSBURGH PA | 323.7 | LIC | BLCDT | -20050609AAQ |
| 49 | WNWO-TV | TOLEDO OH | 14.5 | LIC | BLCDT | -20120817ABH |
| 50 | WPXD-TV | ANN ARBOR MI | 94.0 | LIC | BLCDT | -20120801ADY |
| 51 | WLAJ | LANSING MI | 118.3 | LIC | BLCDT | -20040422ABI |
| 56 | NEW | DEFIANCE OH | 65.5 | APP | BPRM | -20030718AIQ |
| 49 | WNWO-TV | TOLEDO OH | 14.5 | PLN | DTVPLN | -DTVPL1748 |

Total scenarios = 2

Result key: 2
 Scenario 1 Affected station 6
 Before Analysis

| | | | |
|--------------------------------|------------|--------------|-----|
| Results for: 48N OH TOLEDO | BLTTL | 19990607JB | LIC |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 467015 | 805.5 | |
| not affected by terrain losses | 467015 | 805.5 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 271 | 8.1 | |
| lost to all IX | 271 | 8.1 | |

| | |
|---|-----------------------|
| Potential Interfering Stations Included in above Scenario | 1 |
| 46A OH TOLEDO | BLCDT 20030411AAF LIC |
| 49A OH TOLEDO | DTVPLN DTVP1748 PLN |

After Analysis

| | | | |
|--------------------------------|------------|--------------|-----|
| Results for: 48N OH TOLEDO | BLTTL | 19990607JB | LIC |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 467015 | 805.5 | |
| not affected by terrain losses | 467015 | 805.5 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 271 | 8.1 | |
| lost to all IX | 271 | 8.1 | |

| | |
|---|-----------------------|
| Potential Interfering Stations Included in above Scenario | 1 |
| 46A OH TOLEDO | BLCDT 20030411AAF LIC |
| 49A OH TOLEDO | BLCDT 20120817ABH LIC |

Percent new IX = 0.0000%

Result key: 3
 Scenario 2 Affected station 6
 Before Analysis

| | | | |
|----------------------------|------------|--------------|-----|
| Results for: 48N OH TOLEDO | BLTTL | 19990607JB | LIC |
| | POPULATION | AREA (sq km) | |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 7

| | | |
|--------------------------------|--------|-------|
| within Noise Limited Contour | 467015 | 805.5 |
| not affected by terrain losses | 467015 | 805.5 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 271 | 8.1 |
| lost to all IX | 271 | 8.1 |

| | |
|---|----------------------|
| Potential Interfering Stations Included in above Scenario | 2 |
| 46A OH TOLEDO | BPCDT 20080619AJB CP |
| 49A OH TOLEDO | DTVPLN DTVP1748 PLN |

After Analysis

| | | | |
|--------------------------------|------------|--------------|-----|
| Results for: 48N OH TOLEDO | BLTTL | 19990607JB | LIC |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 467015 | 805.5 | |
| not affected by terrain losses | 467015 | 805.5 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 271 | 8.1 | |
| lost to all IX | 271 | 8.1 | |

| | |
|---|-----------------------|
| Potential Interfering Stations Included in above Scenario | 2 |
| 46A OH TOLEDO | BPCDT 20080619AJB CP |
| 49A OH TOLEDO | BLCDT 20120817ABH LIC |

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 7

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|--------------|
| 49 | WOCH-CA | CHICAGO IL | BMPDTA | -20100409AAK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|----------------|----------|--------|-------------|--------------|
| 48 | WMEU-LP | CHICAGO IL | 2.5 | LIC | BLTTA | -20110919AFF |
| 48 | W40CN-D | SUGAR GROVE IL | 38.6 | APP | BDISDTA | -20121219ACH |
| 48 | WHME-TV | SOUTH BEND IN | 125.9 | LIC | BLCDT | -20060109ABG |
| 49 | KLJB | DAVENPORT IA | 238.2 | LIC | BLCDT | -20050713ADL |
| 49 | WAAA-LP | WESTVILLE IN | 65.1 | CP | BDFCDTL | -20110824BCX |
| 49 | W49DS-D | WOLCOTT IN | 134.7 | CP | BNPDTL | -20100112ADY |
| 49 | WNWO-TV | TOLEDO OH | 354.5 | LIC | BLCDT | -20120817ABH |
| 49 | WMSN-TV | MADISON WI | 202.7 | LIC | BLCDT | -20101223ABD |
| 50 | WXFT-DT | AURORA IL | 0.0 | CP | BPCDT | -20120920AEA |
| 50 | WXFT-DT | AURORA IL | 2.5 | LIC | BLCDT | -20101116BHE |
| 49 | WNWO-TV | TOLEDO OH | 354.5 | PLN | DTVPLN | -DTVP1748 |

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 8

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|----------|
|---------|------|------------|-------------|----------|

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 8

49 WDRB LOUISVILLE KY BLCDT -20091009AAQ

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------------|----------|--------|-------------|--------------|
| 48 | WTTV | BLOOMINGTON IN | 120.3 | LIC | BLCDT | -20060630ACD |
| 48 | WTTV | BLOOMINGTON IN | 120.3 | CP | BPCDT | -20100324AAF |
| 48 | WTTV-DR | BLOOMINGTON IN | 120.3 | LIC | BPRM | -20030820AEO |
| 48 | WKGB-TV | BOWLING GREEN KY | 156.2 | LIC | BMLEDT | -20120702ACF |
| 49 | WDKA | PADUCAH KY | 291.2 | LIC | BLCDT | -20100216ADH |
| 49 | WNWO-TV | TOLEDO OH | 425.4 | LIC | BLCDT | -20120817ABH |
| 49 | WLFV | GRUNDY VA | 372.5 | LIC | BLCDT | -20071025ACW |
| 49 | WTAP-TV | PARKERSBURG WV | 387.1 | LIC | BLCDT | -20120109ACS |
| 50 | WDTN | DAYTON OH | 205.1 | LIC | BLCDT | -20050629AAL |
| 49 | WNWO-TV | TOLEDO OH | 425.4 | PLN | DTVPLN | -DTVP1748 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|--------------|
| 49 | WNYO-TV | BUFFALO NY | BPCDT | -20090717AED |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 48 | WYDC | CORNING NY | 133.7 | LIC | BLCDT | -20090220ABG |
| 49 | WDLI-TV | CANTON OH | 322.7 | LIC | BLCDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 421.7 | LIC | BLCDT | -20120817ABH |
| 50 | WQLN | ERIE PA | 155.5 | LIC | BLEDT | -20130603AKJ |
| 49 | WNWO-TV | TOLEDO OH | 421.7 | PLN | DTVPLN | -DTVP1748 |

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 10

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|--------------|
| 49 | WNYO-TV | BUFFALO NY | BLCDT | -20090619ABO |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 48 | WYDC | CORNING NY | 133.7 | LIC | BLCDT | -20090220ABG |
| 49 | WDLI-TV | CANTON OH | 322.7 | LIC | BLCDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 421.7 | LIC | BLCDT | -20120817ABH |
| 50 | WQLN | ERIE PA | 155.5 | LIC | BLEDT | -20130603AKJ |
| 49 | WNWO-TV | TOLEDO OH | 421.7 | PLN | DTVPLN | -DTVP1748 |

Proposed station is beyond the site to
nearest cell evaluation distance

#####

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 9

Analysis of Interference to Affected Station 11

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|--------------|
| 49 | WDLI-TV | CANTON OH | BLCDT | -20101129ALX |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|--------------|
| 48 | WSYX | COLUMBUS OH | 173.2 | LIC | BLCDT | -20100913ACJ |
| 48 | WPXI | PITTSBURGH PA | 149.1 | LIC | BLCDT | -20050609AAQ |
| 49 | WNYO-TV | BUFFALO NY | 322.7 | CP | BPCDT | -20090717AED |
| 49 | WNYO-TV | BUFFALO NY | 322.7 | LIC | BLCDT | -20090619ABO |
| 49 | WNWO-TV | TOLEDO OH | 162.0 | LIC | BLCDT | -20120817ABH |
| 49 | WHSV-TV | HARRISONBURG VA | 371.8 | LIC | BLCDT | -20060413ACO |
| 49 | WTAP-TV | PARKERSBURG WV | 189.6 | LIC | BLCDT | -20120109ACS |
| 50 | WPXD-TV | ANN ARBOR MI | 213.3 | LIC | BLCDT | -20120801ADY |
| 50 | WEAO | AKRON OH | 4.5 | LIC | BLEDT | -20091022AAS |
| 50 | WQLN | ERIE PA | 167.9 | LIC | BLEDT | -20130603AKJ |
| 50 | WPCB-TV | GREENSBURG PA | 169.5 | LIC | BLCDT | -20030409ABC |
| 49 | WNWO-TV | TOLEDO OH | 162.0 | PLN | DTVPLN | -DTVP1748 |

Total scenarios = 2

Result key: 4
Scenario 1 Affected station 11
Before Analysis

Results for: 49A OH CANTON BLCDT 20101129ALX LIC
HAAT 292.0 m, ATV ERP 900.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 4108620 | 23165.7 |
| not affected by terrain losses | 4082861 | 22812.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 62345 | 1360.6 |
| lost to ATV IX only | 62345 | 1360.6 |
| lost to all IX | 62345 | 1360.6 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|--------------------|--------|-------------|-----|
| 48A PA PITTSBURGH | BLCDT | 20050609AAQ | LIC |
| 49A NY BUFFALO | BPCDT | 20090717AED | CP |
| 49A WV PARKERSBURG | BLCDT | 20120109ACS | LIC |
| 50A OH AKRON | BLEDT | 20091022AAS | LIC |
| 50A PA ERIE | BLEDT | 20130603AKJ | LIC |
| 49A OH TOLEDO | DTVPLN | DTVP1748 | PLN |

After Analysis

Results for: 49A OH CANTON BLCDT 20101129ALX LIC
HAAT 292.0 m, ATV ERP 900.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 4108620 | 23165.7 |
| not affected by terrain losses | 4082861 | 22812.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 71433 | 1533.1 |
| lost to ATV IX only | 71433 | 1533.1 |
| lost to all IX | 71433 | 1533.1 |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 10

| | | | | |
|---|-------|-------------|-----|---|
| Potential Interfering Stations Included in above Scenario | | | | 1 |
| 48A PA PITTSBURGH | BLCDT | 20050609AAQ | LIC | |
| 49A NY BUFFALO | BPCDT | 20090717AED | CP | |
| 49A WV PARKERSBURG | BLCDT | 20120109ACS | LIC | |
| 50A OH AKRON | BLEDT | 20091022AAS | LIC | |
| 50A PA ERIE | BLEDT | 20130603AKJ | LIC | |
| 49A OH TOLEDO | BLCDT | 20120817ABH | LIC | |

Percent new IX = 0.2260%

Result key: 5
 Scenario 2 Affected station 11
 Before Analysis

Results for: 49A OH CANTON BLCDT 20101129ALX LIC
 HAAT 292.0 m, ATV ERP 900.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 4108620 | 23165.7 |
| not affected by terrain losses | 4082861 | 22812.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 62345 | 1360.6 |
| lost to ATV IX only | 62345 | 1360.6 |
| lost to all IX | 62345 | 1360.6 |

| | | | | |
|---|--------|-------------|-----|---|
| Potential Interfering Stations Included in above Scenario | | | | 2 |
| 48A PA PITTSBURGH | BLCDT | 20050609AAQ | LIC | |
| 49A NY BUFFALO | BLCDT | 20090619ABO | LIC | |
| 49A WV PARKERSBURG | BLCDT | 20120109ACS | LIC | |
| 50A OH AKRON | BLEDT | 20091022AAS | LIC | |
| 50A PA ERIE | BLEDT | 20130603AKJ | LIC | |
| 49A OH TOLEDO | DTVPLN | DTVP1748 | PLN | |

After Analysis

Results for: 49A OH CANTON BLCDT 20101129ALX LIC
 HAAT 292.0 m, ATV ERP 900.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 4108620 | 23165.7 |
| not affected by terrain losses | 4082861 | 22812.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 71433 | 1533.1 |
| lost to ATV IX only | 71433 | 1533.1 |
| lost to all IX | 71433 | 1533.1 |

| | | | | |
|---|-------|-------------|-----|---|
| Potential Interfering Stations Included in above Scenario | | | | 2 |
| 48A PA PITTSBURGH | BLCDT | 20050609AAQ | LIC | |
| 49A NY BUFFALO | BLCDT | 20090619ABO | LIC | |
| 49A WV PARKERSBURG | BLCDT | 20120109ACS | LIC | |
| 50A OH AKRON | BLEDT | 20091022AAS | LIC | |
| 50A PA ERIE | BLEDT | 20130603AKJ | LIC | |
| 49A OH TOLEDO | BLCDT | 20120817ABH | LIC | |

Percent new IX = 0.2260%

Worst case new IX 0.2260% Scenario 1

#####

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 11

Analysis of Interference to Affected Station 12

Analysis of current record

| | | | | |
|---------|---------|----------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 49 | WTAP-TV | PARKERSBURG WV | BLCDT | -20120109ACS |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|--------------|
| 48 | WSYX | COLUMBUS OH | 140.6 | LIC | BLCDT | -20100913ACJ |
| 48 | WPXI | PITTSBURGH PA | 181.7 | LIC | BLCDT | -20050609AAQ |
| 49 | WDRB | LOUISVILLE KY | 387.1 | LIC | BLCDT | -20091009AAQ |
| 49 | WDLI-TV | CANTON OH | 189.6 | LIC | BLCDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 298.7 | LIC | BLCDT | -20120817ABH |
| 49 | WLFG | GRUNDY VA | 283.7 | LIC | BLCDT | -20071025ACW |
| 49 | WHSV-TV | HARRISONBURG VA | 266.7 | LIC | BLCDT | -20060413ACO |
| 50 | WEAO | AKRON OH | 192.7 | LIC | BLEDT | -20091022AAS |
| 50 | WPCB-TV | GREENSBURG PA | 191.3 | LIC | BLCDT | -20030409ABC |
| 50 | NEW | OAK HILL WV | 158.9 | APP | BPRM | -20070724ADI |
| 50 | WOAY-TV | OAK HILL WV | 158.9 | LIC | BLCDT | -20070426AAK |
| 49 | WNWO-TV | TOLEDO OH | 298.7 | PLN | DTVPLN | -DTVP1748 |

Total scenarios = 1

Result key: 6
 Scenario 1 Affected station 12
 Before Analysis

Results for: 49A WV PARKERSBURG BLCDT 20120109ACS LIC
 HAAT 196.0 m, ATV ERP 315.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 474159 | 17765.5 |
| not affected by terrain losses | 446987 | 17020.7 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 13761 | 257.6 |
| lost to ATV IX only | 13761 | 257.6 |
| lost to all IX | 13761 | 257.6 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|--------|-------------|-----|
| 49A OH CANTON | BLCDT | 20101129ALX | LIC |
| 49A VA GRUNDY | BLCDT | 20071025ACW | LIC |
| 49A VA HARRISONBURG | BLCDT | 20060413ACO | LIC |
| 49A OH TOLEDO | DTVPLN | DTVP1748 | PLN |

After Analysis

Results for: 49A WV PARKERSBURG BLCDT 20120109ACS LIC
 HAAT 196.0 m, ATV ERP 315.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 474159 | 17765.5 |
| not affected by terrain losses | 446987 | 17020.7 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 13761 | 257.6 |
| lost to ATV IX only | 13761 | 257.6 |
| lost to all IX | 13761 | 257.6 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|-------|-------------|-----|
| 49A OH CANTON | BLCDT | 20101129ALX | LIC |
| 49A VA GRUNDY | BLCDT | 20071025ACW | LIC |
| 49A VA HARRISONBURG | BLCDT | 20060413ACO | LIC |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 12

49A OH TOLEDO BLCDT 20120817ABH LIC

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 13

Analysis of current record

| | | | | |
|---------|---------|--------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 50 | WPXD-TV | ANN ARBOR MI | BLCDT | -20120801ADY |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 49 | WDLI-TV | CANTON OH | 213.3 | LIC | BLCDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 90.8 | LIC | BLCDT | -20120817ABH |
| 50 | WXFT-DT | AURORA IL | 360.9 | CP | BPCDT | -20120920AEA |
| 50 | WXFT-DT | AURORA IL | 362.3 | LIC | BLCDT | -20101116BHE |
| 50 | WEAO | AKRON OH | 208.8 | LIC | BLEDT | -20091022AAS |
| 50 | WDTN | DAYTON OH | 317.3 | LIC | BLCDT | -20050629AAL |
| 50 | WQLN | ERIE PA | 271.5 | LIC | BLEDT | -20130603AKJ |
| 50 | WPCB-TV | GREENSBURG PA | 374.8 | LIC | BLCDT | -20030409ABC |
| 51 | WLAJ | LANSING MI | 99.6 | LIC | BLCDT | -20040422ABI |
| 49 | WNWO-TV | TOLEDO OH | 90.8 | PLN | DTVPLN | -DTVPL1748 |

Total scenarios = 1

Result key: 7
Scenario 1 Affected station 13
Before Analysis

Results for: 50A MI ANN ARBOR BLCDT 20120801ADY LIC
HAAT 293.0 m, ATV ERP 345.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 5366819 | 22550.4 |
| not affected by terrain losses | 5366216 | 22538.3 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 16581 | 672.0 |
| lost to ATV IX only | 16581 | 672.0 |
| lost to all IX | 16581 | 672.0 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|----------------|-------|-------------|-----|
| 50A OH AKRON | BLEDT | 20091022AAS | LIC |
| 51A MI LANSING | BLCDT | 20040422ABI | LIC |

After Analysis

Results for: 50A MI ANN ARBOR BLCDT 20120801ADY LIC
HAAT 293.0 m, ATV ERP 345.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 5366819 | 22550.4 |
| not affected by terrain losses | 5366216 | 22538.3 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 17235 | 676.0 |
| lost to ATV IX only | 17235 | 676.0 |
| lost to all IX | 17235 | 676.0 |

APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 13

Potential Interfering Stations Included in above Scenario 1
50A OH AKRON BLEDT 20091022AAS LIC
51A MI LANSING BLCDT 20040422ABI LIC
49A OH TOLEDO BLCDT 20120817ABH LIC

Percent new IX = 0.0122%

Worst case new IX 0.0122% Scenario 1

#####

Analysis of Interference to Affected Station 14

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|--------------|-------------|--------------|
| 50 | WOKZ-CD | KALAMAZOO MI | BLDTA | -20120306AAW |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 49 | WNWO-TV | TOLEDO OH | 201.3 | LIC | BLCDT | -20120817ABH |
| 50 | WXFT-DT | AURORA IL | 169.3 | CP | BPCDT | -20120920AEA |
| 50 | WXFT-DT | AURORA IL | 170.9 | LIC | BLCDT | -20101116BHE |
| 50 | WEIU-TV | CHARLESTON IL | 376.7 | LIC | BLEDT | -20060504AAW |
| 50 | WPXD-TV | ANN ARBOR MI | 192.3 | LIC | BLCDT | -20120801ADY |
| 50 | WEAO | AKRON OH | 358.9 | LIC | BLEDT | -20091022AAS |
| 50 | WDTN | DAYTON OH | 309.2 | LIC | BLCDT | -20050629AAL |
| 50 | WISC-TV | MADISON WI | 329.1 | LIC | BLCDT | -20050701ABU |
| 51 | WLAJ | LANSING MI | 92.8 | LIC | BLCDT | -20040422ABI |

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 15

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 50 | WEAO | AKRON OH | BLEDT | -20091022AAS |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|----------------|----------|--------|-------------|--------------|
| 49 | WDLI-TV | CANTON OH | 4.5 | LIC | BLCDT | -20101129ALX |
| 49 | WNWO-TV | TOLEDO OH | 157.7 | LIC | BLCDT | -20120817ABH |
| 49 | WTAP-TV | PARKERSBURG WV | 192.7 | LIC | BLCDT | -20120109ACS |
| 50 | WPXD-TV | ANN ARBOR MI | 208.8 | LIC | BLCDT | -20120801ADY |
| 50 | WDTN | DAYTON OH | 268.8 | LIC | BLCDT | -20050629AAL |
| 50 | WQLN | ERIE PA | 168.5 | LIC | BLEDT | -20130603AKJ |
| 50 | WPCB-TV | GREENSBURG PA | 173.8 | LIC | BLCDT | -20030409ABC |
| 50 | NEW | OAK HILL WV | 349.9 | APP | BPRM | -20070724ADI |
| 50 | WOAY-TV | OAK HILL WV | 349.9 | LIC | BLCDT | -20070426AAK |
| 51 | WTAE-TV | PITTSBURGH PA | 178.2 | LIC | BLCDT | -20041014AEY |
| 49 | WNWO-TV | TOLEDO OH | 157.7 | PLN | DTVPLN | -DTVPL1748 |

Proposal causes no interference

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APPENDIX B
WNWO-TV - TOLEDO, OHIO
Channel 49, 105 kW, Page 14

Analysis of Interference to Affected Station 16

Analysis of current record

| | | | | |
|----------------|-------------|-------------------|--------------------|-----------------|
| Channel | Call | City/State | Application | Ref. No. |
| 49 | WNWO-TV | TOLEDO OH | BLCDT | -20120817ABH |

Stations Potentially Affecting This Station

| | | | | | | |
|-------------|-------------|-------------------|-----------------|---------------|--------------------|-----------------|
| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
| 48 | WAQP | SAGINAW MI | 182.0 | LIC | BLCDT | -20060824ADS |
| 48 | WSYX | COLUMBUS OH | 194.4 | LIC | BLCDT | -20100913ACJ |
| 49 | WDRB | LOUISVILLE KY | 425.4 | LIC | BLCDT | -20091009AAQ |
| 49 | WNYO-TV | BUFFALO NY | 421.7 | CP | BPCDT | -20090717AED |
| 49 | WNYO-TV | BUFFALO NY | 421.7 | LIC | BLCDT | -20090619ABO |
| 49 | WDLI-TV | CANTON OH | 162.0 | LIC | BLCDT | -20101129ALX |
| 49 | WTAP-TV | PARKERSBURG WV | 298.7 | LIC | BLCDT | -20120109ACS |
| 50 | WPXD-TV | ANN ARBOR MI | 90.8 | LIC | BLCDT | -20120801ADY |
| 50 | WEAO | AKRON OH | 157.7 | LIC | BLEDT | -20091022AAS |

Total scenarios = 1

Result key: 8
 Scenario 1 Affected station 16
 Before Analysis

Results for: 49A OH TOLEDO BLCDT 20120817ABH LIC
 HAAT 423.0 m, ATV ERP 105.0 kW

| | | |
|--------------------------------|-------------------|---------------------|
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 2221264 | 20410.7 |
| not affected by terrain losses | 2220460 | 20406.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 15392 | 282.1 |
| lost to ATV IX only | 15392 | 282.1 |
| lost to all IX | 15392 | 282.1 |

Potential Interfering Stations Included in above Scenario 1
 49A OH CANTON BLCDT 20101129ALX LIC
 50A MI ANN ARBOR BLCDT 20120801ADY LIC

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