

**Transition to Reassignment Channel**

Television Station: WCOV-TV Facility ID 73642 Montgomery, AL  
Reassignment Ch. 22  
Construction Permit LMS file# 0000072324  
Transition Phase Assignment: Phase 5  
Phase Testing Period Start Date: 08/03/2019  
Phase Completion Date: 09/06/2019

STA purpose: To commence initial operation on reassignment Ch. 22 with an interim antenna at a separate location in order to accommodate tower work, removal of existing Ch. 20 main antenna, installation of post-auction Ch. 22 main antenna, and to coordinate with a co-located reassigned station which transitions at a later phase (WSFA-TV Facility ID 13993, Montgomery AL, phase 10).

STA Channel: 22

STA Site Location: WCOV-TV studio location  
Antenna Structure Registration # 1038437  
41.7 km from authorized reassignment Ch. 22 site 0000072324

STA Antenna System: Side-mount directional (Figure 1)  
Horizontal polarization

STA Power and Height: 40.6 kW effective radiated power  
219.5 meters height above ground level  
282.3 meters height above mean sea level  
219.4 meters height above average terrain

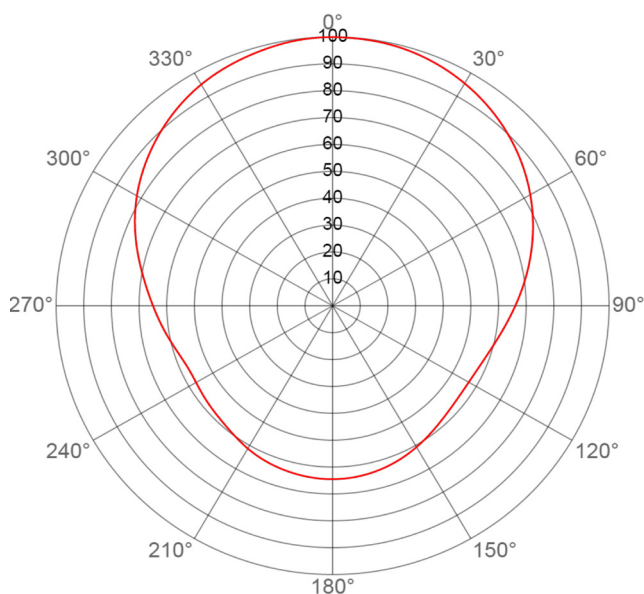
STA Facility Coverage: Does not extend beyond authorized, provides required principal community coverage (Figure 2)

RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.2 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 15 percent relative field at downward angles (from antenna elevation pattern data). This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

**Special Temporary Authority**  
**Purpose and Technical Information**  
**Woods Communications Corporation**  
(page 2 of 2)



**Chesapeake RF Consultants, LLC**  
Joseph M. Davis, P.E.      July 24, 2019  
207 Old Dominion Road      Yorktown, VA 23692      703-650-9600



## Horizontal Polarization AZIMUTH PATTERN

Exhibit No.

Date **24 Jul 2019**

Call Letters **WCOV-TV**

Channel **22**

Antenna Type **TLP-12B**

Location **Montgomery AL**

Customer **Woods**

Gain **1.7 (2.30 dB)**

Calculated

Drawing # **TLP-B**

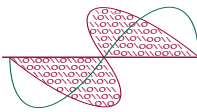
| Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0   | 1.000 | 36  | 0.935 | 72  | 0.759 | 108 | 0.589 | 144 | 0.594 | 180 | 0.645 | 216 | 0.600 | 252 | 0.584 | 288 | 0.747 |
| 1   | 1.000 | 37  | 0.932 | 73  | 0.754 | 109 | 0.586 | 145 | 0.596 | 181 | 0.645 | 217 | 0.598 | 253 | 0.587 | 289 | 0.753 |
| 2   | 0.999 | 38  | 0.928 | 74  | 0.748 | 110 | 0.583 | 146 | 0.598 | 182 | 0.645 | 218 | 0.596 | 254 | 0.590 | 290 | 0.759 |
| 3   | 0.999 | 39  | 0.924 | 75  | 0.742 | 111 | 0.581 | 147 | 0.600 | 183 | 0.645 | 219 | 0.594 | 255 | 0.593 | 291 | 0.765 |
| 4   | 0.999 | 40  | 0.920 | 76  | 0.737 | 112 | 0.579 | 148 | 0.603 | 184 | 0.645 | 220 | 0.592 | 256 | 0.596 | 292 | 0.771 |
| 5   | 0.998 | 41  | 0.916 | 77  | 0.731 | 113 | 0.577 | 149 | 0.605 | 185 | 0.644 | 221 | 0.590 | 257 | 0.600 | 293 | 0.777 |
| 6   | 0.998 | 42  | 0.912 | 78  | 0.726 | 114 | 0.575 | 150 | 0.607 | 186 | 0.644 | 222 | 0.589 | 258 | 0.603 | 294 | 0.783 |
| 7   | 0.998 | 43  | 0.908 | 79  | 0.720 | 115 | 0.574 | 151 | 0.609 | 187 | 0.643 | 223 | 0.587 | 259 | 0.607 | 295 | 0.789 |
| 8   | 0.997 | 44  | 0.904 | 80  | 0.714 | 116 | 0.573 | 152 | 0.611 | 188 | 0.643 | 224 | 0.586 | 260 | 0.610 | 296 | 0.795 |
| 9   | 0.996 | 45  | 0.899 | 81  | 0.709 | 117 | 0.571 | 153 | 0.614 | 189 | 0.642 | 225 | 0.584 | 261 | 0.614 | 297 | 0.801 |
| 10  | 0.996 | 46  | 0.895 | 82  | 0.703 | 118 | 0.570 | 154 | 0.616 | 190 | 0.641 | 226 | 0.583 | 262 | 0.618 | 298 | 0.806 |
| 11  | 0.995 | 47  | 0.890 | 83  | 0.698 | 119 | 0.569 | 155 | 0.618 | 191 | 0.640 | 227 | 0.582 | 263 | 0.622 | 299 | 0.812 |
| 12  | 0.994 | 48  | 0.886 | 84  | 0.692 | 120 | 0.569 | 156 | 0.619 | 192 | 0.640 | 228 | 0.581 | 264 | 0.625 | 300 | 0.817 |
| 13  | 0.993 | 49  | 0.881 | 85  | 0.687 | 121 | 0.568 | 157 | 0.621 | 193 | 0.639 | 229 | 0.580 | 265 | 0.629 | 301 | 0.823 |
| 14  | 0.992 | 50  | 0.876 | 86  | 0.682 | 122 | 0.568 | 158 | 0.623 | 194 | 0.638 | 230 | 0.579 | 266 | 0.633 | 302 | 0.828 |
| 15  | 0.990 | 51  | 0.872 | 87  | 0.676 | 123 | 0.568 | 159 | 0.625 | 195 | 0.637 | 231 | 0.578 | 267 | 0.637 | 303 | 0.834 |
| 16  | 0.989 | 52  | 0.867 | 88  | 0.671 | 124 | 0.568 | 160 | 0.627 | 196 | 0.636 | 232 | 0.577 | 268 | 0.641 | 304 | 0.839 |
| 17  | 0.987 | 53  | 0.862 | 89  | 0.666 | 125 | 0.568 | 161 | 0.628 | 197 | 0.634 | 233 | 0.576 | 269 | 0.646 | 305 | 0.844 |
| 18  | 0.985 | 54  | 0.857 | 90  | 0.661 | 126 | 0.568 | 162 | 0.630 | 198 | 0.633 | 234 | 0.575 | 270 | 0.650 | 306 | 0.849 |
| 19  | 0.983 | 55  | 0.852 | 91  | 0.656 | 127 | 0.569 | 163 | 0.632 | 199 | 0.632 | 235 | 0.574 | 271 | 0.654 | 307 | 0.854 |
| 20  | 0.981 | 56  | 0.847 | 92  | 0.651 | 128 | 0.569 | 164 | 0.633 | 200 | 0.631 | 236 | 0.573 | 272 | 0.659 | 308 | 0.859 |
| 21  | 0.979 | 57  | 0.842 | 93  | 0.646 | 129 | 0.570 | 165 | 0.634 | 201 | 0.629 | 237 | 0.572 | 273 | 0.663 | 309 | 0.864 |
| 22  | 0.977 | 58  | 0.836 | 94  | 0.641 | 130 | 0.571 | 166 | 0.636 | 202 | 0.628 | 238 | 0.572 | 274 | 0.668 | 310 | 0.869 |
| 23  | 0.975 | 59  | 0.831 | 95  | 0.637 | 131 | 0.572 | 167 | 0.637 | 203 | 0.626 | 239 | 0.571 | 275 | 0.673 | 311 | 0.874 |
| 24  | 0.972 | 60  | 0.826 | 96  | 0.632 | 132 | 0.573 | 168 | 0.638 | 204 | 0.625 | 240 | 0.570 | 276 | 0.678 | 312 | 0.879 |
| 25  | 0.970 | 61  | 0.820 | 97  | 0.628 | 133 | 0.574 | 169 | 0.639 | 205 | 0.623 | 241 | 0.570 | 277 | 0.683 | 313 | 0.883 |
| 26  | 0.967 | 62  | 0.815 | 98  | 0.624 | 134 | 0.575 | 170 | 0.640 | 206 | 0.621 | 242 | 0.570 | 278 | 0.688 | 314 | 0.888 |
| 27  | 0.964 | 63  | 0.810 | 99  | 0.619 | 135 | 0.577 | 171 | 0.641 | 207 | 0.619 | 243 | 0.570 | 279 | 0.694 | 315 | 0.893 |
| 28  | 0.961 | 64  | 0.804 | 100 | 0.615 | 136 | 0.578 | 172 | 0.642 | 208 | 0.618 | 244 | 0.570 | 280 | 0.699 | 316 | 0.897 |
| 29  | 0.958 | 65  | 0.799 | 101 | 0.612 | 137 | 0.580 | 173 | 0.643 | 209 | 0.616 | 245 | 0.571 | 281 | 0.705 | 317 | 0.902 |
| 30  | 0.955 | 66  | 0.793 | 102 | 0.608 | 138 | 0.582 | 174 | 0.643 | 210 | 0.613 | 246 | 0.572 | 282 | 0.711 | 318 | 0.906 |
| 31  | 0.952 | 67  | 0.787 | 103 | 0.604 | 139 | 0.584 | 175 | 0.644 | 211 | 0.611 | 247 | 0.573 | 283 | 0.716 | 319 | 0.910 |
| 32  | 0.949 | 68  | 0.782 | 104 | 0.601 | 140 | 0.586 | 176 | 0.644 | 212 | 0.609 | 248 | 0.575 | 284 | 0.722 | 320 | 0.914 |
| 33  | 0.946 | 69  | 0.776 | 105 | 0.597 | 141 | 0.588 | 177 | 0.645 | 213 | 0.607 | 249 | 0.577 | 285 | 0.728 | 321 | 0.919 |
| 34  | 0.942 | 70  | 0.771 | 106 | 0.594 | 142 | 0.590 | 178 | 0.645 | 214 | 0.605 | 250 | 0.579 | 286 | 0.734 | 322 | 0.923 |
| 35  | 0.939 | 71  | 0.765 | 107 | 0.591 | 143 | 0.592 | 179 | 0.645 | 215 | 0.602 | 251 | 0.581 | 287 | 0.740 | 323 | 0.927 |



**Figure 1**  
**Interim Antenna Azimuthal Pattern**  
**WCOV-TV Montgomery, AL**  
**Facility ID 73642**  
**Ch. 22 40.6 kW 219 m**

prepared for  
**Woods Communications Corporation**

July, 2019



**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 2**  
**Proposed Interim Contours**  
**WCOV-TV Montgomery, AL**  
**Facility ID 73642**  
**Ch. 22 40.6 kW 219 m**

prepared for  
**Woods Communications Corporation**

July, 2019

Proposed Interim Ch. 22  
40.6 kW 219 m directional  
48 dBu  
(Principal Community)  
41 dBu  
(Noise Limited Service Contour)

Ch. 22 Construction Permit  
LMS File# 0000072324  
670 kW 528 m directional  
41 dBu Contour

