

TECHNICAL STATEMENT  
K201HP STEAMBOAT SPRINGS, COLORADO 204D  
CEDAR COVE BROADCASTING, INC.  
FCC FORM 349  
JANUARY 2015

This Technical Statement is in support of FCC form 349 filed by Cedar Cove Broadcasting, Inc. for a minor change in the licensed facility of K201HP, facility ID 69404. It is proposing to remain at its current transmitter, but make changes to its channel, and antenna system. K201HP is proposing a decreased in Effective Radiated Power to 10 Watts (0.01KW) and become a “Non-Fill-In” translator for its commonly owned KRKY-FM Fort Collins, CO, Facility ID 84102. K201HP will install directional Nicom model BKY-3P, one bay antenna. The antenna will be mounted at the 11 meter level on a 20 meter overall tower, with a Center of Radiation at 3102 Above Mean Sea Level. This is the same level as the current antenna being utilized by K201HP. K201HP also seeks to “One-Step” adjacent channel change from channel 201D to 204D.

Figure 1 shows a channel interference study conducted from the proposed site for K201HP. It shows that the proposed operation of K201HP on channel 204D, will not cause any prohibited outgoing interference to any licensed or proposed FM services with the exception of third adjacent channel station KLBV Steamboat Springs, CO, facility ID 92357, on channel 207C2. However, a waiver of C.F.R. 74.1204 of the Commissions rules is hereby respectfully requested based on the fact that there is no population within the area of predicted interference or the 100 dBμ interference contour.

The worse case interference contour for K201HP is 100 dBμ (F50,10). This contour with 10 watts ERP will extend 0.22 kilometers (220 meters). There are no

normally occupied structures within 220 meters of the proposed tower site. The access to this site is gated and limited to equipment service personnel that occasionally work at the tower site.

Figure 2 is the predicted 100 dB $\mu$  interference contour, which would be the worse case contour towards any second or third adjacent channel station. It shows that there will be zero persons located inside of this contour. Hence, there will not be any “actual” areas of interference.

Figure 3 is the directional antenna data for the new proposed directional antenna to be utilized by K201HP.

Since no change in the current tower site is proposed, it can be assumed that the current and proposed 60 dB $\mu$  contours of K201HP with overlap with one another, as required.

It was concluded that the new proposed operation of K201HP Steamboat Springs, Colorado on channel 204D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission’s rules.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

| K201HP STEAMBOAT SPRINGS, CO, CH. 204D<br>40 22 03.0 N, 106 41 28.0 W.<br>Average Protected F(50-50)= 11.21 km<br>Standard Directional |                     |                |                |                              |                           |                 |                |                                      |                      |        |  |
|--|---------------------|----------------|----------------|------------------------------|---------------------------|-----------------|----------------|--------------------------------------|----------------------|--------|--|
| REFERENCE  |                     | CH#            | 204D           | - 88.7 MHz,                  | Pwr= 0.01 kW DA,          | HAAT= 371.4 M,  | COR= 3102 M    | DISPLAY DATES                        |                      |        |  |
| 40 22 03.0 N.  |                     |                |                |                              |                           |                 |                | DATA 01-13-15                        |                      |        |  |
| 106 41 28.0 W.   |                     |                |                |                              |                           |                 |                | SEARCH 01-17-15                      |                      |        |  |
| CH CITY  | CALL                | TYPE ANT STATE | AZI <--        | DIST FILE #                  | LAT LNG                   | PWR(kW) HAAT(M) | INT(km) COR(M) | PRO(km) LICENSEE                     | *IN* (Overlap in km) | *OUT*  |  |
| 207C2 KLBV   | Steamboat Springs   | LIC_VX CO      | 331.1<br>151.1 | 10.61<br>BLED20091125AGM     | 40 27 04.0<br>106 45 06.0 | 2.600<br>528    | 2.9<br>3146    | 35.5<br>Educational Media Foundati   | 1.4                  | -25.0* |  |
| 201D K201HP  | Steamboat Springs   | LIC_C_ CO      | 0.0<br>0.0     | 0.00<br>BLFT20101230ACE      | 40 22 03.0<br>106 41 28.0 | 0.075<br>371    | 0.6<br>3102    | 9.0<br>Cedar Cove Broadcasting, I    | -5.4*                | -9.2*  |  |
| 203A KRNC  | Steamboat Springs   | LIC_CX CO      | 308.2<br>128.1 | 17.02<br>BLED20060418ADQ     | 40 27 43.0<br>106 50 57.0 | 0.240<br>183    | 12.1<br>2528   | 8.8<br>Communi ty Radi o Of Norther  | 0.7                  | 1.3    |  |
| 205C1 KCJX   | Carbondale          | LIC_DEX CO     | 209.0<br>28.5  | 120.24<br>BLED20040907AAD    | 39 25 08.0<br>107 22 10.0 | 4.000<br>775    | 99.9<br>3227   | 66.9<br>Roaring Fork Public Radi o,  | 19.6                 | 50.3   |  |
| 06 T KO6KJ   | Collbran            | CP_D_N CO      | 221.4<br>40.6  | 165.77<br>BDFCDTV20120425ADP | 39 14 35.0<br>107 57 53.0 | 0.004<br>19     | 0.9<br>1860    | 1.6<br>Mesa County                   | 140.5R               | 25.3M  |  |
| 06NT KO6KJ   | Collbran            | LI_DHN CO      | 221.2<br>40.4  | 166.12<br>BLTTV19941219JG    | 39 14 15.0<br>107 57 45.0 | 0.004<br>119    | 5.2<br>1863    | 13.3<br>Mesa County                  | 140.5R               | 25.6M  |  |
| 06NT DK06HF  | Salida, Etc.        | LI_DHN CO      | 166.6<br>347.0 | 185.22<br>BLTTV19780731JJ    | 38 44 37.0<br>106 11 50.0 | 0.021<br>868    | 5.2<br>3298    | 13.3<br>Chaffee County Tv Translat   | 140.5R               | 44.7M  |  |
| 06NT KO6HZ   | Paonia              | LI_DHN CO      | 206.8<br>26.2  | 185.23<br>BLTTV4112          | 38 52 34.0<br>107 39 29.0 | 0.064<br>390    | 5.2<br>2080    | 13.3<br>Nexstar Broadcasting, Inc.   | 140.5R               | 44.7M  |  |
| 202C3 KFFR   | Winter Park         | CP_DCX CO      | 117.5<br>298.1 | 86.29<br>BNPED20071018BDM    | 40 00 23.0<br>105 47 38.0 | 10.000<br>-180  | 3.8<br>2745    | 38.3<br>Fraser Valley Community Me   | 74.7                 | 47.8   |  |
| 202A KPYP  | Craig               | LIC_C_ CO      | 286.0<br>105.4 | 81.01<br>BLED20051021ACN     | 40 33 50.0<br>107 36 40.0 | 0.250<br>271    | 1.1<br>2283    | 23.3<br>Public Broadcasting Of Col   | 75.4                 | 57.6   |  |
| 203A KVJZ  | Vail                | LIC_CX CO      | 166.1<br>346.2 | 86.00<br>BLED20091112AJH     | 39 36 56.0<br>106 26 57.0 | 5.000<br>-241   | 22.4<br>2730   | 15.0<br>Rocky Mountain Public Broa   | 60.1                 | 64.1   |  |
| 201C2 KDNK   | Glenwood Springs    | LIC_DEX CO     | 209.0<br>28.5  | 120.24<br>BLED20041022ABU    | 39 25 08.0<br>107 22 10.0 | 1.200<br>775    | 2.0<br>3227    | 55.1<br>Carbondale Communi ty Acces  | 117.1                | 64.1   |  |
| 06 D KO6HN-D   | Gunnison            | LI__N CO       | 185.2<br>5.0   | 205.02<br>BLDVL20091021ABQ   | 38 31 41.5<br>106 54 14.6 | 0.060<br>278    | 5.2<br>2636    | 13.3<br>Gunnison County Metropolit   | 140.5R               | 64.5M  |  |
| 204A KHH   | Estes Park          | LIC_VX CO      | 90.0<br>270.7  | 99.66<br>BLED20111104ACT     | 40 21 44.0<br>105 31 04.0 | 0.100<br>-49    | 18.6<br>2664   | 5.6<br>Cedar Cove Broadcasting, I    | 71.5                 | 64.9   |  |
| 204A KMKZ  | Red Feather Lakes   | LIC_CX CO      | 57.5<br>238.2  | 104.69<br>BLED20110316AAC    | 40 52 04.0<br>105 38 33.0 | 0.005<br>260    | 8.5<br>2927    | 2.7<br>3g Learning Soluti ons        | 85.9                 | 67.3   |  |
| 205A KAIW  | Laramie             | LIC_CX WY      | 32.8<br>213.3  | 123.21<br>BLED20090220AAZ    | 41 17 46.0<br>105 53 30.0 | 1.150<br>197    | 40.9<br>2459   | 25.8<br>Educational Media Foundati   | 73.5                 | 85.1   |  |
| 207D K207CK  | Breckenridge        | LIC_DVN CO     | 148.8<br>329.2 | 117.73<br>BLFT19990401TE     | 39 27 35.0<br>105 58 46.0 | 0.249<br>483    | 1.0<br>3822    | 40.0<br>Summi t Public Radi o And Tv | 111.4                | 77.7   |  |
| 06 D KO6NG-D   | Sargents            | LI__N CO       | 173.7<br>353.8 | 220.68<br>BLDTV20120613ABL   | 38 23 29.6<br>106 24 41.6 | 0.050<br>240    | 0.9<br>2794    | 1.6<br>Gunnison County Metropolit    | 140.5R               | 80.2M  |  |
| 206D K206EM  | Copper Mountain     | LIC_DV_ CO     | 166.1<br>346.2 | 85.94<br>BLFT20130927AWJ     | 39 36 58.0<br>106 26 58.0 | 0.062<br>-228   | 0.2<br>2724    | 3.1<br>Public Broadcasting Of Col    | 82.2                 | 82.3   |  |
| 201D K201DU  | Vail                | LIC_DC_ CO     | 166.1<br>346.2 | 85.94<br>BLFT20090515ADA     | 39 36 58.0<br>106 26 57.0 | 0.028<br>-219   | 0.0<br>2734    | 1.3<br>Educational Media Foundati    | 82.4                 | 82.5   |  |
| 06NT KO6BI   | Manitou Springs     | LI_DHN CO      | 137.0<br>318.1 | 226.74<br>BLTTV1446          | 38 51 50.0<br>104 54 15.0 | 0.001<br>188    | 5.2<br>2012    | 13.3<br>City Of Manitou Springs      | 140.5R               | 86.2M  |  |
| 201D K201IL  | Breckenridge        | LIC_C_ CO      | 146.0<br>326.4 | 98.59<br>BLFT20120803ABG     | 39 37 51.0<br>106 02 47.0 | 0.065<br>-353   | 0.6<br>2793    | 10.1<br>Communi ty Radi o For Northe | 92.5                 | 88.4   |  |
| 06 T DK06AM  | Gateview            | AP__N CO       | 192.0<br>11.6  | 234.80<br>BDFCDTV20100210ABG | 38 17 52.0<br>107 15 05.0 | 0.060<br>283    | 5.2<br>2784    | 13.3<br>Gunnison County Metropolit   | 140.5R               | 94.3M  |  |
| 202D K202AB  | Glenwood Springs    | LIC_HN CO      | 209.6<br>29.2  | 105.13<br>BLFT19920428TA     | 39 32 36.0<br>107 17 49.0 | 0.005<br>80     | 0.2<br>2465    | 2.7<br>Carbondale Communi ty Acces   | 103.8                | 97.0   |  |
| 205D KCJX-FM1  | West Glenwood Sprin | LIC_DV_ CO     | 211.0<br>30.6  | 104.50<br>BLFTB20051005AAR   | 39 33 37.0<br>107 19 12.0 | 0.099           | 3.9<br>2171    | 2.8<br>Roaring Fork Public Radi o,   | 99.4                 | 99.5   |  |

| CH<br>CI TY             | CALL                       | TYPE<br>STATE | ANT | AZI<br><--     | DI ST<br>FI LE #             | LAT<br>LNG                | PWR(kW)<br>HAAT (M) | INT(km)<br>COR (M) | PRO(km)<br>LICENSEE                | Page # 2<br>*IN*<br>(Overlap in km) |  | *OUT*  |
|-------------------------|----------------------------|---------------|-----|----------------|------------------------------|---------------------------|---------------------|--------------------|------------------------------------|-------------------------------------|--|--------|
|                         |                            |               |     |                |                              |                           |                     |                    |                                    |                                     |  |        |
| 201D West               | KDNK-FM1<br>Glenwood Sprin | LIC DV_<br>CO |     | 211.0<br>30.6  | 104.52<br>BLFTB20051214AAR   | 39 33 36.0<br>107 19 12.0 | 0.200               | 0.2<br>2164        | 3.3<br>Carbondale Community Acces  | 103.1                               |  | 101.2  |
| 207D Glenwood           | K207EO<br>Springs          | LIC DV_<br>CO |     | 211.0<br>30.6  | 104.50<br>BLFT20090102ACN    | 39 33 37.0<br>107 19 12.0 | 0.099<br>-249       | 0.2<br>2171        | 2.8<br>Roaring Fork Public Radio,  | 103.2                               |  | 101.7  |
| 207C1 Denver            | KUV0                       | LIC _CN<br>CO |     | 119.5<br>300.5 | 141.89<br>BLED19851022KD     | 39 43 49.0<br>105 14 59.0 | 22.500<br>278       | 2.2<br>2333        | 22.1<br>Rocky Mountain Public Broa | 131.9                               |  | 103.4  |
| 203A Laramie            | KUWY                       | LIC _CX<br>WY |     | 44.4<br>225.2  | 147.74<br>BLED20080303AJB    | 41 18 36.0<br>105 27 17.0 | 0.135<br>298        | 34.6<br>2703       | 22.7<br>University Of Wyoming      | 103.5                               |  | 112.9  |
| 203A Boulder            | KGNU-FM                    | LIC DC_<br>CO |     | 107.2<br>288.2 | 137.34<br>BLED20100528ADY    | 39 59 33.0<br>105 09 16.0 | 4.000<br>65         | 21.1<br>1732       | 14.2<br>Boulder Community Broadcas | 107.9                               |  | 104.6  |
| 202A Fort Collins       | KRKY-FM                    | LIC _CX<br>CO |     | 76.1<br>256.9  | 118.94<br>BLED20140731AQY    | 40 36 60.0<br>105 19 36.0 | 0.140<br>374        | 0.8<br>2545        | 6.1<br>Cedar Cove Broadcasting, I  | 107.9                               |  | 105.9  |
| 203D Basalt             | K203EG                     | LIC DH_<br>CO |     | 197.0<br>16.8  | 117.78<br>BLFT20041105ALB    | 39 21 10.0<br>107 05 33.0 | 0.010<br>133        | 8.5<br>2546        | 6.0<br>Pitkin County Translator D  | 108.1                               |  | 108.5  |
| 205A Fort Collins       | KRFC                       | LIC _EX<br>CO |     | 80.5<br>261.6  | 153.27<br>BLED20030324ADY    | 40 34 53.0<br>104 54 20.0 | 3.000<br>66         | 34.0<br>1596       | 22.8<br>Public Radio For The Front | 109.2                               |  | 117.4  |
| 201C3 Rock River        | KLMI                       | LIC _WY       |     | 3.9<br>183.9   | 149.48                       | 41 42 37.5<br>106 34 10.6 | 25.000<br>167       | 2.3<br>2443        | 22.7<br>User                       | 140.3                               |  | 110.8  |
| 06NT Denver             | KXDP-LP                    | LI D_N<br>CO  |     | 112.6<br>293.5 | 129.41<br>BLTVL20100716ABT   | 39 54 48.0<br>105 17 33.0 | 3.000<br>879        | 5.2<br>2536        | 13.3<br>Syncom Media Group, Inc.   | 18.5R                               |  | 110.9M |
| 06 T Denver             | KXDP-LP                    | CP D_N<br>CO  |     | 112.6<br>293.5 | 129.41<br>BDFCDVL20141003ACE | 39 54 48.0<br>105 17 33.0 | 3.000<br>879        | 5.2<br>2536        | 13.3<br>Syncom Media Group, Inc.   | 18.5R                               |  | 110.9M |
| 06 D New Castle         | K06GW-D                    | LI D_N<br>CO  |     | 219.1<br>38.5  | 114.43<br>BLDTV20101013AAO   | 39 33 56.0<br>107 31 57.0 | 0.005<br>251        | 0.9<br>1940        | 1.6<br>Rocky Mountain Public Broa  | 2.5R                                |  | 111.9M |
| 202D Cedar Cove         | KRKY-FM1                   | CP DV_<br>CO  |     | 86.9<br>267.8  | 122.11<br>BNPFTB20140731AQV  | 40 25 07.0<br>105 15 16.0 | 0.006               | 0.0<br>1860        | 1.4<br>Cedar Cove Broadcasting, I  | 112.3                               |  | 120.4  |
| 204C1 Manitou Springs   | KCME                       | LIC _CY<br>CO |     | 138.4<br>319.6 | 239.16<br>BLED19990203KA     | 38 44 40.0<br>104 51 41.0 | 12.000<br>668       | 122.6<br>2918      | 45.3<br>Cheyenne Mountain Public B | 112.8                               |  | 153.3  |
| 207D Basalt             | K207DT                     | LIC DV_<br>CO |     | 190.7<br>10.5  | 119.42<br>BLFT20081031ABH    | 39 18 37.0<br>106 56 53.0 | 0.028<br>96         | 0.3<br>2697        | 3.7<br>Pitkin County Translator D  | 117.3                               |  | 113.0  |
| 204A South Greeley      | KDNR                       | CP DCX<br>WY  |     | 59.3<br>240.4  | 162.60<br>BPED20120418AAT    | 41 06 02.0<br>105 01 29.1 | 1.000<br>129        | 30.4<br>2153       | 9.0<br>Western Inspirational Broa  | 122.0                               |  | 114.0  |
| 201C2 Lakewood          | KVOD                       | APP _CX<br>CO |     | 119.5<br>300.5 | 141.87<br>BMPED20140620AAL   | 39 43 49.0<br>105 15 00.0 | 4.500<br>251        | 1.6<br>2334        | 14.6<br>Public Broadcasting Of Col | 132.5                               |  | 114.4  |
| 207A Laramie            | KTDX                       | LIC _CX<br>WY |     | 44.4<br>225.2  | 147.89<br>BLED20081010BIM    | 41 18 39.0<br>105 27 12.0 | 0.450<br>347        | 1.5<br>2751        | 32.1<br>Educational Communications | 136.7                               |  | 115.1  |
| 204C3 Gunnison          | KGNI                       | LIC _VX<br>CO |     | 185.2<br>5.0   | 205.03<br>BLED20130809AAK    | 38 31 41.0<br>106 54 14.0 | 6.500<br>106        | 87.7<br>2639       | 29.0<br>Crested Butte Mountain Edu | 115.3                               |  | 161.0  |
| 202D Aspen              | K202AT                     | LIC DEN<br>CO |     | 184.7<br>4.6   | 127.70<br>BLFT19870803TC     | 39 13 16.0<br>106 48 47.0 | 0.047<br>273        | 0.2<br>3192        | 8.0<br>Carbondale Community Acces  | 125.4                               |  | 115.4  |
| 204A South Greeley      | KDNR                       | LIC _CX<br>WY |     | 59.3<br>240.4  | 162.60<br>BMLED20080929AUD   | 41 06 02.0<br>105 01 29.1 | 0.500<br>129        | 28.5<br>2153       | 8.5<br>Western Inspirational Broa  | 123.8                               |  | 116.5  |
| 206D Fort Collins, Etc. | K206DB                     | LIC DC_<br>CO |     | 83.3<br>264.2  | 128.87<br>BLFT20040614AAN    | 40 29 36.0<br>105 10 53.0 | 0.010<br>334        | 0.0<br>2081        | 1.6<br>Boulder Community Broadcas  | 118.9                               |  | 126.3  |
| 06 D Aspen              | K06HU-D                    | LI D_N<br>CO  |     | 185.6<br>5.5   | 127.36<br>BLDTV20130103AEF   | 39 13 33.0<br>106 50 08.0 | 0.006<br>594        | 0.8<br>2855        | 1.6<br>Pitkin County Translator D  | 2.5R                                |  | 124.9M |
| 06 D Dolores            | K06NT-D                    | LI D_N<br>CO  |     | 206.8<br>25.6  | 359.11<br>BLDTV20110329ADC   | 37 28 00.0<br>108 31 25.7 | 0.005<br>278        | 0.9<br>2178        | 1.6<br>Southwest Colorado Tv Tran  | 140.5R                              |  | 218.6M |
| 06 D Crawford           | K06KR-D                    | LI D_N<br>NE  |     | 45.8<br>228.0  | 375.18<br>BLDTV20081125ANV   | 42 40 13.0<br>103 24 09.0 | 0.028<br>100        | 5.2<br>1179        | 13.3<br>Nebraska Educational Telec | 140.5R                              |  | 234.7M |
| 06 D Chadron            | K06JC-D                    | LI D_N<br>NE  |     | 47.2<br>229.7  | 410.09<br>BLDTV20081121AKA   | 42 48 46.8<br>103 00 22.0 | 0.066<br>155        | 5.2<br>1153        | 13.3<br>Nebraska Educational Telec | 140.5R                              |  | 269.6M |

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM. In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent. All separation margins (if shown) include rounding. Call signs with strikeout need not be protected. Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X) "\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

FIGURE 2 - PREDICTED 100 DBU INTERFERENCE CONTOUR  
K201HP STEAMBOAT SPRINGS, CO, CH. 204D

Coverage Study - NGDC 30 SEC  
01-17-2015

K201HP CH204 D , 0.01 kW, 371.4M HAAT, 3102.0M COR AMSL  
Interference Contour = 100 dBu. Population = 0

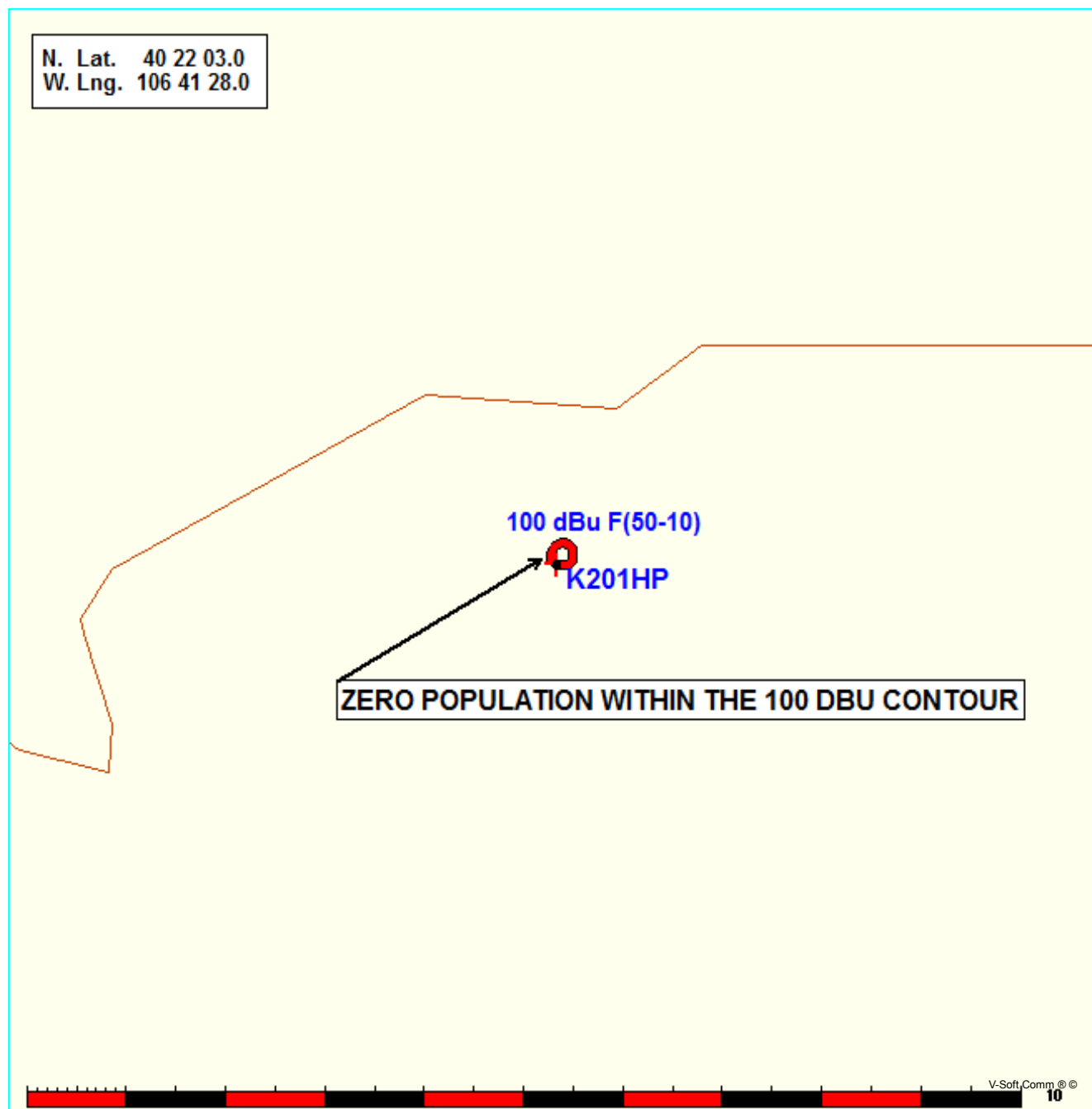


FIGURE 3 - DIRECTIONAL ANTENNA DATA

K201HP

01-17-2015

RMS(V) = .511

Graph is Relative Field

| Azi | Field | dBk     | kW    |
|-----|-------|---------|-------|
| 000 | 0.774 | -22.225 | 0.006 |
| 010 | 0.865 | -21.260 | 0.007 |
| 020 | 0.941 | -20.528 | 0.009 |
| 030 | 0.980 | -20.175 | 0.010 |
| 040 | 1.000 | -20.000 | 0.010 |
| 050 | 0.980 | -20.175 | 0.010 |
| 060 | 0.941 | -20.528 | 0.009 |
| 070 | 0.865 | -21.260 | 0.007 |
| 080 | 0.774 | -22.225 | 0.006 |
| 090 | 0.656 | -23.662 | 0.004 |
| 100 | 0.533 | -25.465 | 0.003 |
| 110 | 0.397 | -28.024 | 0.002 |
| 120 | 0.281 | -31.026 | 0.001 |
| 130 | 0.194 | -34.244 | 0.000 |
| 140 | 0.130 | -37.721 | 0.000 |
| 150 | 0.084 | -41.514 | 0.000 |
| 160 | 0.063 | -44.013 | 0.000 |
| 170 | 0.048 | -46.375 | 0.000 |
| 180 | 0.048 | -46.375 | 0.000 |
| 190 | 0.048 | -46.375 | 0.000 |
| 200 | 0.053 | -45.514 | 0.000 |
| 210 | 0.053 | -45.514 | 0.000 |
| 220 | 0.053 | -45.514 | 0.000 |
| 230 | 0.053 | -45.514 | 0.000 |
| 240 | 0.053 | -45.514 | 0.000 |
| 250 | 0.048 | -46.375 | 0.000 |
| 260 | 0.048 | -46.375 | 0.000 |
| 270 | 0.048 | -46.375 | 0.000 |
| 280 | 0.063 | -44.013 | 0.000 |
| 290 | 0.084 | -41.514 | 0.000 |
| 300 | 0.130 | -37.721 | 0.000 |
| 310 | 0.194 | -34.244 | 0.000 |
| 320 | 0.281 | -31.026 | 0.001 |
| 330 | 0.397 | -28.024 | 0.002 |
| 340 | 0.533 | -25.465 | 0.003 |
| 350 | 0.656 | -23.662 | 0.004 |

