

TECHNICAL STATEMENT  
K271BO PINECLIFFE, COLORADO  
MOUNTAIN COMMUNITY TRANSLATORS, LLC  
FCC FORM 349  
DECEMBER 2009

This Technical Statement is made in support of a minor change application for FM translator station, K271BO licensed to Pinecliffe, Colorado. K271BO seeks to “one step” channel change from its present licensed operation on channel 271D to its second adjacent channel spaced channel of 273D. It also seeks to increase its Effective Radiated Power from 8 watts to 10 watts, and modify its current directional antenna system. The following will show that the new proposed operation of K271BO will meet all of the Commissions technical requirements for an FM translator station.

The new proposed operation of K271BO specifies a maximum Effective Radiated Power of 10 watts. It will operate with a directional antenna with an “off the shelf” type antenna, or a Scala Model CL-FM-V, vertical polarized yagi type antenna with its maximum lobe oriented at 70 degrees. The antenna will be mounted on an existing tower with an over height of 13 meters above the ground. The antenna will be mounted with a Center of Radiation of 12 meters above the ground, and 3343 meters Above Mean Sea Level. The coordinates of this tower are located at N 39° 52’ 09”, W 105° 33’ 09”. There are no other antennas mounted on this tower at this time, except for the current K271BO antenna, which will be exchanged with the new Scala antenna.

Figure 1 is a detailed interference study conducted on channel 273D with these new proposed facilities. It shows that the new operation of K271BO will not cause any

interference to any existing or proposed FM stations on any of the pertinent CO or adjacent channels to channel 273.

Figure 2 is the directional antenna data for the proposed Scala CL-FM-V antenna system proposed to be used.

Since no change in the transmitter location for K271BO is proposed, it can be assumed that the current and proposed operation's 60 db $\mu$  will overlap with each other as required.

It was found that the new proposed operation of K271BO Pinecliffe, Colorado on channel 273D, will satisfy all of the required commission rules and regulations for an FM translator station.

FIGURE 1, CHANNEL INTERFERENCE STUDY  
K271BO PINECLIFFE, COLORADO, CH. 273D  
Average Protected F(50-50)= 3.15 km  
Standard Directional

| REFERENCE         |          | CH#   |     | 273D - 102.5 MHZ, Pwr= 0.01 kW, HAAT= 0.0 M, COR= 3343 M |                  |             |          |          | DISPLAY DATES              |          |          |
|-------------------|----------|-------|-----|----------------------------------------------------------|------------------|-------------|----------|----------|----------------------------|----------|----------|
| 39 52 09.0 N.     |          |       |     | Average Protected F(50-50)= 3.15 km                      |                  |             |          |          | DATA 12-19-09              |          |          |
| 105 33 09.0 W.    |          |       |     | Standard Directional                                     |                  |             |          |          | SEARCH 12-20-09            |          |          |
| CH                | CALL     | TYPE  | ANT | AZI                                                      | DIST             | LAT         | PWR (kW) | INT (km) | PRO (km)                   | *IN*     | *OUT*    |
| CITY              |          | STATE |     | <--                                                      | FILE #           | LNG         | HAAT (M) | COR (M)  | LICENSEE                   | (Overlap | in km)   |
| 271D              | K271BO   | LIC   | DC_ | 0.0                                                      | 0.0              | 39 52 09.0  | 0.008    | 0.0      | 3.3                        | -0.5*    | -3.3* ** |
| Pinecliffe        |          | CO    |     | 0.0                                                      | BLFT20091202ABX  | 105 33 09.0 |          | 3343     | Mountain Community Transla |          |          |
| 273C2             | KTRR     | LIC   | NCX | 35.7                                                     | 106.2            | 40 38 31.0  | 17.000   | 127.1    | 52.2                       | -34.5*<  | 5.7      |
| Loveland          |          | CO    |     | 216.2                                                    | BLH200511107AEI  | 104 49 03.0 | 234      | 1793     | Regent Broadcasting Of Ft. |          |          |
| 274C              | KBIQ     | LIC   | _C_ | 154.3                                                    | 138.3            | 38 44 43.0  | 72.000   | 138.5    | 94.1                       | -7.8*<   | 41.7     |
| Manitou Springs   |          | CO    |     | 334.8                                                    | BMLH20030423AAT  | 104 51 39.0 | 695      | 2946     | Bison Media, Inc.          |          |          |
| 274L1             | KYGT-LP  | LIC   | ___ | 215.0                                                    | 18.6             | 39 43 56.0  | 0.100    | 17.0     | 11.6                       | -6.5<    | 2.8      |
| Idaho Springs     |          | CO    |     | 34.9                                                     | BLL20021003AAE   | 105 40 38.0 | 19       | 3018     | Clear Creek Radio, Inc.    |          |          |
| 273C2             | KQSE     | LIC   | _C_ | 262.6                                                    | 107.8            | 39 44 18.0  | 0.480    | 112.2    | 44.3                       | -5.4*<   | 60.9     |
| Gypsum            |          | CO    |     | 81.8                                                     | BLH20080222ABW   | 106 47 58.0 | 660      | 3161     | Wildcat Communications, L. |          |          |
| 272A              | KCUV     | LIC   | DCX | 119.1                                                    | 31.0             | 39 43 59.0  | 1.000    | 10.2     | 7.1                        | 11.3     | 0.5      |
| Greenwood Village |          | CO    |     | 299.3                                                    | BLH20070514AGO   | 105 14 10.0 | 238      | 2256     | Nrc Broadcasting, Inc.     |          |          |
| 274D              | K274BW   | LIC   | DC_ | 62.8                                                     | 35.0             | 40 00 43.0  | 0.250    | 10.0     | 7.0                        | 10.3     | 4.5      |
| Berthoud          |          | CO    |     | 243.1                                                    | BLFT20090623ACK  | 105 11 16.0 |          | 1673     | Community Radio For North  |          |          |
| 272D              | KCUV-FM2 | LIC   | DV_ | 62.8                                                     | 35.0             | 40 00 43.0  | 0.250    | 9.0      | 6.3                        | 11.4     | 5.4      |
| Boulder           |          | CO    |     | 243.1                                                    | BLFTB20070725AEH | 105 11 16.0 |          | 1661     | Nrc Broadcasting, Inc.     |          |          |
| 275D              | 631520   | APP   | DE_ | 125.8                                                    | 19.6             | 39 45 57.0  | 0.011    | 0.0      | 0.8                        | 16.6     | 18.7     |
| Wheat Ridge       |          | CO    |     | 305.9                                                    | BNPFT20030312AGW | 105 21 59.0 |          | 2509     | Educational Communications |          |          |
| 270D              | 640689   | APP   | DV_ | 119.7                                                    | 31.3             | 39 43 46.0  | 0.010    | 0.0      | 0.7                        | 26.2     | 30.4     |
| Golden            |          | CO    |     | 299.9                                                    | BNPFT20030314BOM | 105 14 08.0 |          | 2244     | Mary Medicus               |          |          |
| 270C3             | KKHI     | LIC   | NC_ | 141.1                                                    | 69.0             | 39 23 07.0  | 9.500    | 4.2      | 42.2                       | 63.5     | 26.7     |
| Centennial        |          | CO    |     | 321.4                                                    | BLH20071207AAY   | 105 02 52.0 | 163      | 2226     | Bustos Media Of Colorado L |          |          |
| 270D              | K270AL   | LIC   | DC_ | 300.3                                                    | 37.9             | 40 02 24.0  | 0.010    | 0.0      | 0.6                        | 37.3     | 37.3     |
| Granby            |          | CO    |     | 120.0                                                    | BLFT20070329AOS  | 105 56 11.0 |          | 2530     | Nrc Broadcasting Mountain  |          |          |
| 271A              | KRKY-FM  | LIC   | _HX | 2.9                                                      | 54.6             | 40 21 38.0  | 6.000    | 1.6      | 15.8                       | 50.5     | 38.8     |
| Estes Park        |          | CO    |     | 182.9                                                    | BLH20070117AAE   | 105 31 12.0 | 25       | 2739     | United States Cp, Llc      |          |          |
| 276C0             | KAVD     | CP    | _CX | 106.8                                                    | 126.2            | 39 31 57.0  | 100.000  | 12.2     | 83.6                       | 105.1    | 42.5     |
| Parker            |          | CO    |     | 287.7                                                    | BPH20070314ACY   | 104 08 48.0 | 448      | 2141     | Coloradio, Inc.            |          |          |
| 274D              | K274AG   | LIC   | _CN | 237.3                                                    | 52.4             | 39 36 50.0  | 0.095    | 7.9      | 5.6                        | 43.7     | 45.3     |
| Dillon            |          | CO    |     | 57.0                                                     | BLFT19950814TD   | 106 04 02.0 | -345     | 2866     | Nrc Broadcasting Mountain  |          |          |
| 271A              | KSMT     | LIC   | ZCX | 224.6                                                    | 58.2             | 39 29 44.0  | 6.000    | 1.6      | 11.0                       | 55.4     | 47.3     |
| Breckenridge      |          | CO    |     | 44.3                                                     | BLH20070504ABR   | 106 01 44.0 | -64      | 3250     | Nrc Broadcasting Mountain  |          |          |
| 276D              | 649776   | APP   | _V_ | 237.3                                                    | 52.4             | 39 36 50.0  | 0.010    | 0.2      | 3.2                        | 51.3     | 49.3     |
| Silverthorne      |          | CO    |     | 57.0                                                     | BNPFT20030317IIP | 106 04 02.0 |          | 2853     | Randy M Hudson             |          |          |
| 270D              | KKHI-FM2 | LIC   | _C_ | 141.1                                                    | 69.1             | 39 23 06.0  | 0.099    | 0.7      | 18.7                       | 68.0     | 50.2     |
| Sedalia           |          | CO    |     | 321.4                                                    | BLFTB20031020AAB | 105 02 51.0 |          | 2355     | Bustos Media Of Colorado L |          |          |
| 271D              | KRKY-FM2 | LIC   | DC_ | 24.3                                                     | 76.2             | 40 29 37.0  | 0.065    | 0.5      | 17.1                       | 69.1     | 59.0     |
| Fort Collins      |          | CO    |     | 204.5                                                    | BLFTB20070404AAP | 105 10 53.0 |          | 2090     | United States Cp, Llc      |          |          |
| 275C1             | KARS-FM  | LIC   | _C_ | 353.9                                                    | 112.6            | 40 52 37.0  | 100.000  | 4.5      | 41.7                       | 102.4    | 70.3     |
| Laramie           |          | WY    |     | 173.8                                                    | BLH20051031ABO   | 105 41 44.0 | 248      | 2999     | Regent Broadcasting Of For |          |          |
| 272D              | 631679   | APP   | _C_ | 149.9                                                    | 88.9             | 39 10 33.0  | 0.010    | 10.7     | 7.5                        | 70.4     | 78.3     |
| Westcreek         |          | CO    |     | 330.2                                                    | BNPFT20030310BGJ | 105 02 03.1 |          | 2823     | Way-fm Media Group, Inc.   |          |          |
| 275D              | KARS-FM1 | LIC   | DC_ | 16.3                                                     | 122.6            | 40 55 41.0  | 17.000   | 5.6      | 52.0                       | 113.1    | 70.4     |
| Fort Collins      |          | CO    |     | 196.5                                                    | BLFTB20070718AEG | 105 08 36.0 |          | 2100     | Regent Broadcasting Of Ft. |          |          |
| 273D              | 633930   | APP   | DC_ | 251.4                                                    | 80.9             | 39 38 05.0  | 0.010    | 6.2      | 2.0                        | 73.8     | 71.4     |
| Vail              |          | CO    |     | 70.9                                                     | BNPFT20030313AQS | 106 26 47.0 |          | 2963     | Educational Communications |          |          |
| 275C1             | KARS-FM  | CP    | _CY | 353.9                                                    | 112.6            | 40 52 37.0  | 72.000   | 4.1      | 39.1                       | 103.3    | 72.9     |
| Laramie           |          | WY    |     | 173.8                                                    | BPH20090122ABT   | 105 41 44.0 | 248      | 2999     | Regent Broadcasting Of For |          |          |
| 275D              | KARS-FM1 | CP    | DC_ | 16.3                                                     | 122.6            | 40 55 41.0  | 11.300   | 4.9      | 48.3                       | 113.9    | 74.2     |
| Fort Collins      |          | CO    |     | 196.5                                                    | BPFTB20090122ABX | 105 08 36.0 |          | 2100     | Regent Broadcasting Of Ft. |          |          |

| Page # 2              |         |            |     |             |                       |                        |                   |                  |                                 |               |              |
|-----------------------|---------|------------|-----|-------------|-----------------------|------------------------|-------------------|------------------|---------------------------------|---------------|--------------|
| CH CITY               | CALL    | TYPE STATE | ANT | AZI <--     | DIST FILE #           | LAT LNG                | PWR (kW) HAAT (M) | INT (km) COR (M) | PRO (km) LICENSEE               | *IN* (Overlap | *OUT* in km) |
| 276D Avon             | 649786  | APP CO     | _V_ | 250.1 69.6  | 81.9 BNPFT20030317IIU | 39 36 58.0 106 26 59.0 | 0.010             | 0.2 2725         | 3.2 Randy M Hudson              | 80.8          | 78.7         |
| 271D Estes Park       | K271BN  | LIC CO     | DC_ | 47.8 228.4  | 94.7 BLFT20091103ABR  | 40 26 15.0 104 43 25.0 | 0.041             | 0.2 1525         | 3.5 Mountain Community Transla  | 81.7          | 91.0         |
| 276C1 Limon           | KAVD    | LIC CO     | NC_ | 104.5 285.8 | 170.2 BLH20001129AAZ  | 39 28 12.0 103 38 14.0 | 100.000 135       | 7.9 1791         | 62.4 Coloradio, Inc.            | 152.6         | 107.7        |
| 276C3 Aspen           | KSPN-FM | CP CO      | _CX | 237.3 56.5  | 131.2 BPH20030925AXJ  | 39 13 33.0 106 50 00.0 | 25.000 -9         | 2.3 2878         | 22.7 Nrc Broadcasting Mountain  | 127.9         | 108.6        |
| 270C2 Burns           | KIGN    | LIC WY     | _CN | 28.0 208.6  | 157.5 BMLH19950920KD  | 41 07 01.0 104 40 07.0 | 50.000 150        | 5.1 1963         | 46.2 Gap Broadcasting Cheyenne  | 144.1         | 111.2        |
| 276A Aspen            | KSPN-FM | LIC CO     | _C_ | 237.3 56.5  | 131.2 BMLH20010913AAJ | 39 13 33.0 106 50 00.0 | 3.000 -26         | 1.6 2876         | 13.2 Nrc Broadcasting Mountain  | 128.7         | 118.0        |
| 272A Limon            | R11735  | ADD CO     | ___ | 112.1 293.3 | 173.7                 | 39 16 00.0 103 41 15.0 | 6.000 100         | 40.9 1780        | 26.5 White Park Broadcasting    | 122.4         | 134.0        |
| 276C3 Aspen           | AL3178  | RSV CO     | ___ | 237.3 56.5  | 131.2 RM9890          | 39 13 33.0 106 50 00.0 | 25.000 100        | 2.3 2991         | 22.7 126.9                      | 126.9         | 131.2        |
| 275C3 Battlement Mesa | 1347531 | RSV CO     | ___ | 257.8 76.3  | 212.6                 | 39 26 33.0 107 58 01.0 | 25.000 100        | 6.8 2345         | 58.6 Cochise Media Licenses, Ll | 203.6         | 153.9        |
| 272C1 Walsenburg      | KSPK    | LIC CO     | _CX | 165.5 346.0 | 256.8 BMLH20030103ABF | 37 37 39.0 104 49 17.0 | 100.000 131       | 94.9 2085        | 64.0 Mainstreet Broadcasting Co | 157.0         | 191.7        |
| 275C3 Battlement Mesa | 1347401 | APP CO     | _CX | 257.8 76.3  | 212.6 BNPH20090929AMO | 39 26 33.0 107 58 01.0 | 25.000 -1         | 5.6 2244         | 51.0 Cochise Media Licenses, Ll | 204.0         | 161.5        |
| 271C2 Hanna           | KBDY    | LIC WY     | NC_ | 337.6 157.0 | 212.5 BLH20090109AHF  | 41 38 00.9 106 31 32.1 | 0.630 1050        | 1.7 3409         | 50.5 Toga Radio Llc             | 210.5         | 161.9        |
| 272A Gunnison         | KVLE-FM | LIC CO     | _CN | 219.7 38.8  | 187.3 BLH19800425AB   | 38 33 53.0 106 55 38.0 | 3.000 -140        | 19.5 2418        | 13.2 Pilgrim Communications, In | 166.9         | 172.4        |

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Terrain database is USGS 03 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 = 2, Co to 3rd adjacent.  
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 protected contour.

\*\*- Translator being modified by this application.

FIGURE 2, DIRECTIONAL ANTENNA DATA

12-20-2009

RMS (V)= .393

K271B0 PINECLIFFE, CO, CH. 273

Bearing    Field % Voltage

Graph is Percent Relative Field Voltage

|     |   |       |                     |
|-----|---|-------|---------------------|
| 000 | = | 0.020 | SCALA MODEL CL-FM-V |
| 010 | = | 0.085 |                     |
| 020 | = | 0.250 | DIRECTIONAL YAGI    |
| 030 | = | 0.470 |                     |
| 040 | = | 0.645 |                     |
| 050 | = | 0.820 |                     |
| 060 | = | 0.950 |                     |
| 070 | = | 1.000 |                     |
| 080 | = | 0.950 |                     |
| 090 | = | 0.820 |                     |
| 100 | = | 0.645 |                     |
| 110 | = | 0.470 |                     |
| 120 | = | 0.250 |                     |
| 130 | = | 0.085 |                     |
| 140 | = | 0.020 |                     |
| 150 | = | 0.010 |                     |
| 160 | = | 0.010 |                     |
| 170 | = | 0.010 |                     |
| 180 | = | 0.010 |                     |
| 190 | = | 0.015 |                     |
| 200 | = | 0.025 |                     |
| 210 | = | 0.034 |                     |
| 220 | = | 0.038 |                     |
| 230 | = | 0.040 |                     |
| 240 | = | 0.040 |                     |
| 250 | = | 0.040 |                     |
| 260 | = | 0.040 |                     |
| 270 | = | 0.040 |                     |
| 280 | = | 0.038 |                     |
| 290 | = | 0.034 |                     |
| 300 | = | 0.025 |                     |
| 310 | = | 0.015 |                     |
| 320 | = | 0.010 |                     |
| 330 | = | 0.010 |                     |
| 340 | = | 0.010 |                     |
| 350 | = | 0.010 |                     |

