

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

Estes Park, CO

Channel Study

| | | | | | | | | | | | |
|-------------------|----------|---|-----|-------|--------------------|-------------|---------|-------------|----------------------------|-----------------|-------|
| REFERENCE | | CH# 205D - 88.9 MHz, Pwr= 0.003 kW, HAAT= 53.7 M, | | | | | | COR= 2737 M | | DISPLAY DATES | |
| 40 21 38.0 N. | | Average Protected F(50-50)= 3.2 km | | | | | | | | DATA 04-06-17 | |
| 105 31 12.0 W. | | Omni-directional | | | | | | | | SEARCH 04-06-17 | |
| 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) | |
| 205A | KRFC | LIC | EX | 64.5 | 57.59 | 40 34 53.0 | 3.000 | 74.6 | 23.4 | -25.7* | 1.0 |
| Fort Collins | | CO | | 244.9 | BLED20030324ADY | 104 54 20.0 | 66 | 1596 | Public Radio For The Front | | |
| 204D | K204GN | LIC | DC | 62.6 | 32.29 | 40 29 36.0 | 0.018 | 8.4 | 6.0 | 15.2 | 13.1 |
| Cedar Cove | | CO | | 242.9 | BLFT20170222ACR | 105 10 53.0 | | 2081 | Mountain Community Transla | | |
| 06 T | KXDP-LP | CP | D N | 158.7 | 53.30 | 39 54 48.0 | 3.000 | 4.0 | 35.1 | 39.2R | 14.1M |
| Denver | | CO | | 338.8 | BDFCDVL20141003ACE | | | | | | |
| 105 17 33.0 | 879 | 2536 | | | | | | | | | |
| 06NT | KXDP-LP | LI | D N | 158.7 | 53.30 | 39 54 48.0 | 3.000 | 4.0 | 35.1 | 39.2R | 14.1M |
| Denver | | CO | | 338.8 | BLTVL20100716ABT | 105 17 33.0 | 879 | 2536 | | | |
| 202D | KVXQ-FM1 | CP | DV | 73.9 | 23.45 | 40 25 07.0 | 0.006 | 0.0 | 0.9 | 16.2 | 22.4 |
| Cedar Cove | | CO | | 254.1 | BNPFTB20140731AQV | 105 15 16.0 | | 1860 | Cedar Cove Broadcasting, I | | |
| 202A | KVXQ | LIC | CX | 29.8 | 32.82 | 40 37 00.0 | 0.140 | 0.8 | 9.0 | 24.1 | 23.7 |
| Fort Collins | | CO | | 209.9 | BLED20140731AQY | 105 19 36.0 | 374 | 2545 | Public Broadcasting Of Col | | |
| 203A | KGUN-FM | LIC | DC | 142.7 | 51.37 | 39 59 33.0 | 4.000 | 2.1 | 24.2 | 43.4 | 27.1 |
| Boulder | | CO | | 322.9 | BLED20100528ADY | 105 09 16.0 | 65 | 1732 | Boulder Community Broadcas | | |
| 205C1 | KCJX | LIC | DEX | 237.0 | 189.61 | 39 25 08.0 | 4.000 | 156.9 | 71.6 | 30.4 | 110.6 |
| Carbondale | | CO | | 55.8 | BLED20040907AAD | 107 22 10.0 | 775 | 3227 | Roaring Fork Public Radio, | | |
| 202C3 | KFFR | CP | DHX | 210.7 | 45.57 | 40 00 28.0 | 10.000 | 1.6 | 15.0 | 41.6 | 30.4 |
| Winter Park | | CO | | 30.6 | BPED20160519ABH | 105 47 37.0 | -167 | 2759 | Fraser Valley Community Me | | |
| 202C3 | KFFR | LIC | DHX | 210.6 | 45.68 | 40 00 23.0 | 10.000 | 1.6 | 15.1 | 41.7 | 30.5 |
| Winter Park | | CO | | 30.4 | BLED20150424AAC | 105 47 35.0 | -180 | 2747 | Fraser Valley Community Me | | |
| 205D | K205FV | LIC | C | 160.8 | 73.74 | 39 43 59.0 | 0.099 | 37.9 | 11.1 | 31.0 | 46.9 |
| Plainview | | CO | | 341.0 | BLFT20160831ACE | 105 14 12.0 | | 2249 | Cedar Cove Broadcasting, I | | |
| 207C1 | KUVO | LIC | CN | 161.7 | 73.68 | 39 43 49.0 | 22.500 | 4.4 | 42.3 | 64.5 | 31.3 |
| Denver | | CO | | 341.9 | BLED19851022KD | 105 14 59.0 | 278 | 2333 | Rocky Mountain Public Medi | | |
| 204A | KMKZ | LIC | CX | 349.7 | 57.27 | 40 52 04.0 | 0.005 | 12.0 | 8.4 | 42.9 | 45.6 |
| Red Feather Lakes | | CO | | 169.6 | BLED20110316AAC | 105 38 33.0 | 260 | 2927 | 3g Learning Solutions | | |
| 205C2 | KAIW | LIC | CX | 329.3 | 164.79 | 41 37 49.1 | 0.580 | 118.2 | 48.0 | 44.2 | 109.3 |
| Saratoga | | WY | | 148.6 | BLED20170208AAL | 106 32 00.9 | 996 | 3339 | University Of Wyoming | | |
| 204A | KDNR | CP | DCX | 26.7 | 92.21 | 41 06 02.1 | 2.500 | 30.0 | 20.4 | 54.6 | 60.4 |
| South Greeley | | WY | | 207.1 | BPED20160202ABM | 105 01 29.1 | 127 | 2153 | Western Inspirational Broa | | |
| 206D | K206EO | LIC | DC | 18.6 | 84.11 | 41 04 40.0 | 0.034 | 13.9 | 9.9 | 63.3 | 64.0 |
| Granite | | WY | | 198.8 | BLFT20150630AAV | 105 11 59.0 | | 2390 | Cedar Cove Broadcasting, I | | |
| 204A | KDNR | LIC | CX | 26.7 | 92.21 | 41 06 02.0 | 0.500 | 20.0 | 13.4 | 64.6 | 67.4 |
| South Greeley | | WY | | 207.1 | BMLED20080929AUD | 105 01 29.1 | 129 | 2153 | Western Inspirational Broa | | |

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone= West Zone, 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 restricted contour.

Exhibit 13-A

FMCommander Single Allocation Study - 04-07-2017 - FCC NGDC 30 Sec
K258BE.P's Overlaps (In= -25.67 km, Out= 1.02 km)

K258BE.P CH 205 D
Lat= 40 21 38.0, Lng= 105 31 12.0
0.003 kW 53.7 m HAAT, 2737 m COR
Prot.= 60 dBu, Intef.= 40 dBu

KRFC CH 205 A BLED20030324ADY
Lat= 40 34 53.0, Lng= 104 54 20.0
3.0 kW 66 m HAAT, 1596 m COR
Prot.= 60 dBu, Intef.= 40 dBu

