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**Engineering Statement**
**Petition for Reconsideration**
**Application BPED-20131129ACH**
**For Minor Change of KVYA(FM) at Cedarville, California**
**January 2014**

This Engineering Statement has been prepared on behalf of OPENSKYRADIO CORP., licensee of FM station KVYA at Cedarville, California. On December 20, 2013, the Commission dismissed KVYA application BPED-20131129ACH for an alleged deficiency in community of license coverage required by §73.515. Footnote 1 of the dismissal letter indicates that the Commission's study found that the 60 dBu contour encompassed 38% of the area and 28% of the population of Cedarville, far short of the 50% requirement.

The proposed facility has been amended to specify an antenna height of 11 meters AGL, and the community population count has been re-checked in detail, as described below.

Cedarville is a Census Designated Place ("CDP") and lies between 197 and 221 degrees True from the proposed KVYA transmitter site. The distance to the 60 dBu contour was calculated for an Effective Radiated Power of 0.280 kW (-5.53 dBk) at an antenna height of 1510 meters Above Mean Sea Level. Radial HAAT values were derived from elevations from the 3-second terrain database.

| Azimuth | HAAT (meters) | Distance to 60 dBu F(50,50) |
|---|---|---|
| 197 | 140 | 15.8 km |
| 198 | 139 | 15.7 km |
| 199 | 138 | 15.6 km |
| 200 | 136 | 15.5 km |

| | | |
|---|---|---|
| 201 | 135 | 15.4 km |
| 202 | 133 | 15.3 km |
| 203 | 132 | 15.2 km |
| 204 | 130 | 15.1 km |
| 205 | 128 | 15.0 km |
| 206 | 126 | 14.8 km |
| 207 | 123 | 14.7 km |
| 208 | 120 | 14.5 km |
| 209 | 117 | 14.3 km |
| 210 | 114 | 14.2 km |
| 211 | 111 | 13.9 km |
| 212 | 105 | 13.5 km |
| 213 | 93 | 12.8 km |
| 214 | 83 | 12.1 km |
| 215 | 75 | 11.5 km |
| 216 | 69 | 11.1 km |
| 217 | 59 | 10.4 km |
| 218 | 51 | 9.7 km |
| 219 | 44 | 8.9 km |
| 220 | 38 | 8.1 km |
| 221 | 29 | 7.3 km |

The NAD27 centroids of populated 2010 Census blocks located within the Cedarville CDP were identified, and then the distance and azimuth from the proposed KVYA transmitter site was calculated for each. The following census blocks were determined to be located inside the proposed 60 dBu contour.

| Census Block Centroid NAD27 Coordinates | Population | Distance | Azimuth (deg True) | Contour Distance at this Azimuth |
|---|---|---|---|---|
| 41.535530 120.173074 | 46 | 13.17 km | 211.2 | 13.82 km |
| 41.530651 120.176660 | 15 | 13.79 km | 211.1 | 13.86 km |
| 41.523590 120.171689 | 10 | 14.27 km | 208.0 | 14.5 km |
| 41.528808 120.175059 | 27 | 13.90 km | 210.2 | 14.14 km |
| 41.526965 120.173374 | 15 | 14.01 km | 209.3 | 14.27 km |
| 41.528789 120.173377 | 5 | 13.83 km | 209.7 | 14.23 km |
| 41.530643 120.175053 | 17 | 13.72 km | 210.6 | 14.02 km |
| 41.532723 120.176433 | 28 | 13.59 km | 211.5 | 13.70 km |
| 41.530634 120.173369 | 17 | 13.65 km | 210.1 | 14.17 km |
| 41.525255 120.171684 | 12 | 14.11 km | 208.4 | 14.42 km |
| 41.526961 120.171689 | 8 | 13.94 km | 208.7 | 14.36 km |
| 41.528770 120.171697 | 9 | 13.77 km | 209.2 | 14.28 km |
| 41.526959 120.170059 | 2 | 13.88 km | 208.3 | 14.44 km |
| 41.528765 120.170059 | 15 | 13.70 km | 208.7 | 14.36 km |
| 41.530606 120.171694 | 14 | 13.58 km | 209.6 | 14.24 km |
| 41.532470 120.172533 | 41 | 13.44 km | 210.3 | 14.11 km |
| 41.534288 120.162065 | 30 | 12.85 km | 207.4 | 14.62 km |
| 41.521047 120.158827 | 27 | 14.06 km | 203.6 | 15.14 km |

| | | | | |
|---|---|---|---|---|
| 41.513623<br>120.163894 | 4 | 14.98 km | 203.8 | 15.12 km |
| 41.526985<br>120.175060 | 32 | 14.08 km | 209.8 | 14.22 km |
| 41.527003<br>120.176658 | 12 | 14.14 km | 210.2 | 14.14 km |
| 41.528823<br>120.176662 | 15 | 13.97 km | 210.6 | 14.02 km |

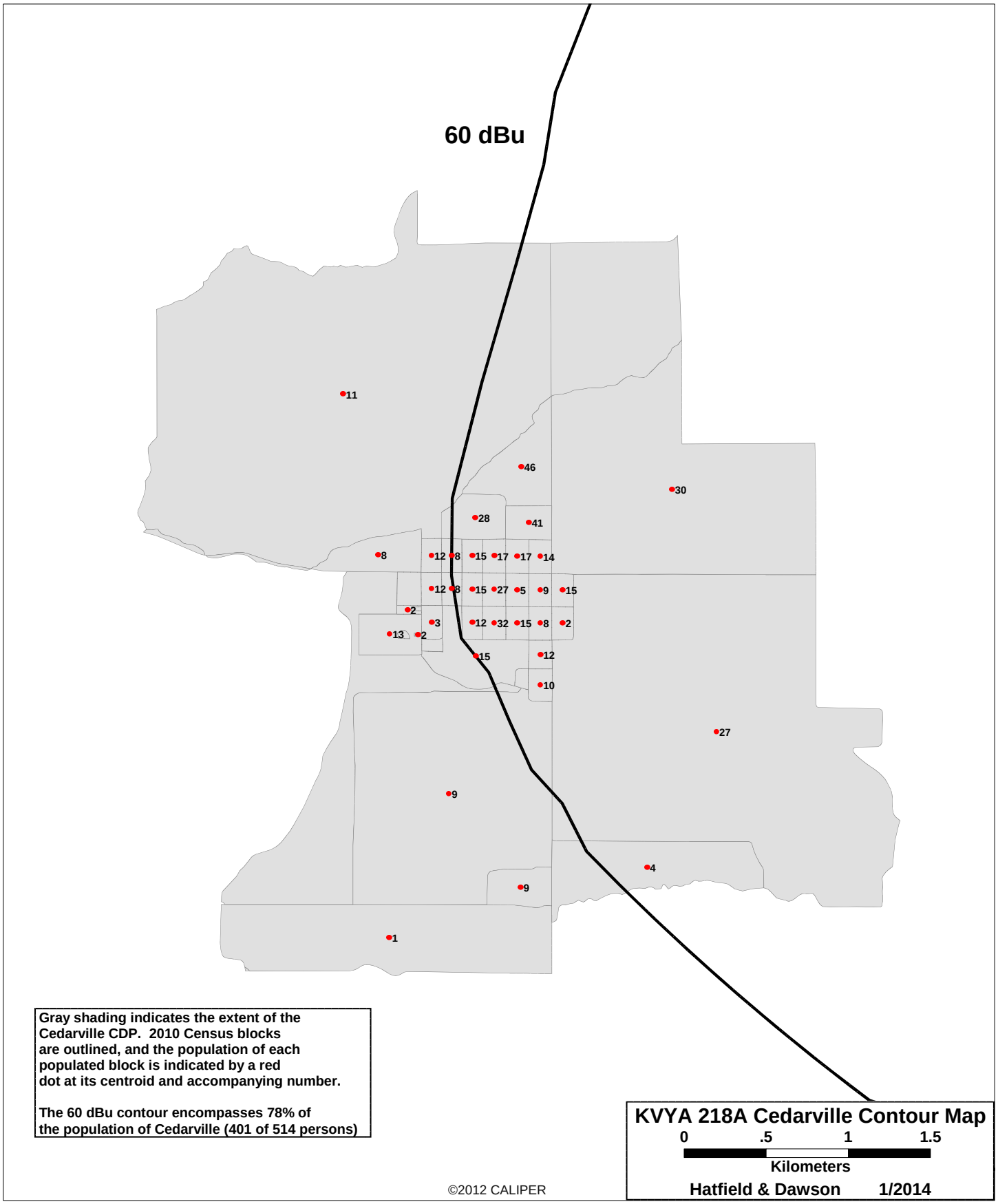
The total population of the Cedarville CDP which is located inside the proposed 60 dBu contour is 401 persons, which is 78% of the 514 person population of the CDP.

**Statement of Engineer**

This Engineering Statement has been prepared by Erik C. Swanson. I am a partner in the firm of Hatfield & Dawson Consulting Engineers and am registered as a Professional Engineer in the States of Washington and Colorado. I hereby declare that the facts set out in the foregoing Engineering Statement, except those of which official notice may be taken, are true and correct.

Signed this 13th day of January, 2014


Erik C. Swanson, P.E..




Gray shading indicates the extent of the Cedarville CDP. 2010 Census blocks are outlined, and the population of each populated block is indicated by a red dot at its centroid and accompanying number.

The 60 dBu contour encompasses 78% of the population of Cedarville (401 of 514 persons)

**KVYA 218A Cedarville Contour Map**

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Kilometers

Hatfield & Dawson 1/2014

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