

ENGINEERING EXHIBIT

Digital Low Power Television Station Application for Minor Modification of Licensed Facility

prepared for

Ventura Media Communications, LLC

K29KY-D Blackfoot, ID

Facility ID 187479

Ch. 29 15 kW Directional

Ventura Media Communications, LLC (“Ventura”) is the licensee of digital Low Power Television station K29KY-D, Channel 29, Facility ID 187479, Blackfoot ID. K29KY-D is licensed to operate at 0.042 kW effective radiated power (“ERP”) with a directional antenna (file# 0000194988). *Ventura* herein seeks a minor modification Construction Permit (“CP”) to relocate K29KY-D and to utilize a different directional antenna pattern at increased ERP and antenna height.

The proposed facility will employ a new antenna to be side-mounted on the tower structure associated with FCC Antenna Structure Registration number 1217373, located 41.0 km (25.5 miles) from the licensed site. No change to the overall structure height is proposed.

The proposed antenna is a Dielectric model DLP-8B having horizontal polarization. The proposed ERP is 15 kW using a “full service” out of channel emission mask. A plot of the directional antenna’s azimuthal pattern is supplied in Figure 1. Figure 2 depicts the coverage contour of the proposed facility as well as that of the licensed facility, demonstrating compliance with §73.3572 for a minor change.

Interference study per OET Bulletin 69¹ shows that the proposal complies with the FCC’s interference protection requirements toward all digital television, television translator, LPTV, and

¹FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 (“OET-69”). This analysis employed the FCC’s current “TVStudy” software with the default application processing template settings, 1 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC’s implementation of

Class A stations. The results, summarized in Table 1, show that any new interference does not exceed the FCC's interference limits (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations) to any facility except with respect to a CP for K29KG-D which does not present a conflict for the proposal.

The K29KG-D CP (Ch. 29, Fac ID 128365, Idaho Falls ID, file# 0000213583) would receive 4.45 percent new interference, which exceeds the 2.0 percent limit towards Low Power Television stations. *Ventura* is also the licensee of K29KG-D and consents to interference exceeding 2.0 percent from the proposed K29KY-D facility. New interference caused by the proposed K29KY-D to the licensed K29KG-D facility (file# 0000191324) is 1.01 percent, which does not exceed the 2.0 percent limit. Accordingly, the proposal complies with §74.793 regarding interference protection to digital television, low power television, television translator, and Class A television facilities.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed facility was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10) and 25 percent antenna relative field in downward elevations (pattern data shows 25 percent or less relative field at angles 10 to 90 degrees below the antenna), the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is $16.4 \mu\text{W}/\text{cm}^2$, which is 4.4 percent of the general population / uncontrolled maximum permissible exposure limit. 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.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site,

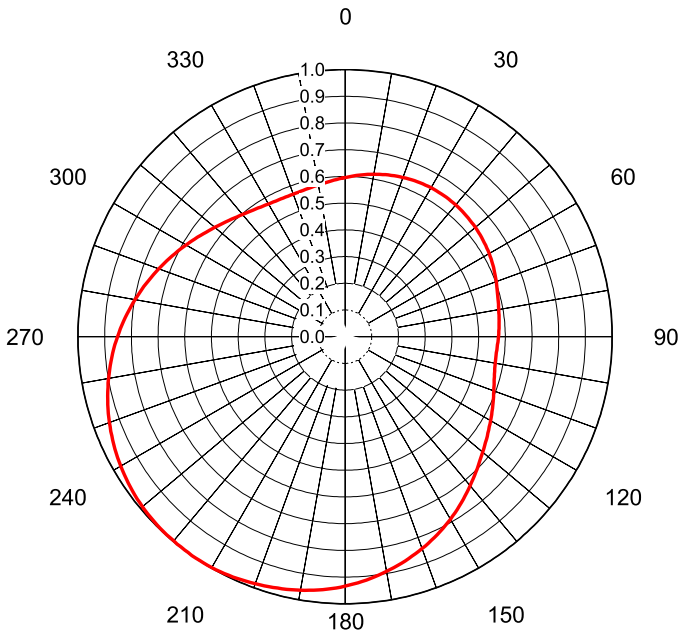
tower, or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

List of Attachments

| | |
|-----------|---|
| Figure 1 | Antenna Azimuthal Pattern |
| Figure 2 | Coverage Contour Comparison |
| Table 1 | TVStudy Analysis of Proposal |
| Form 2100 | Saved Version of Engineering Sections of FCC Form at Time of Upload |

Chesapeake RF Consultants, LLC

| | | |
|-----------------------|--------------------|--------------|
| Joseph M. Davis, P.E. | December 5, 2023 | |
| 207 Old Dominion Road | Yorktown, VA 23692 | 703-650-9600 |



AZIMUTH PATTERN Horizontal Polarization

Proposal No. **20231205jmd**
 Date **5-Dec-23**
 Call Letters **K29KY-D**
 Channel **29**
 Frequency **563 MHz**
 Antenna Type **DLP-8B**
 Gain **1.76 (2.45dB)**
 Calculated

Pattern Number **TLP-B-29 Hpol**

| Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0 | 0.596 | 36 | 0.645 | 72 | 0.598 | 108 | 0.587 | 144 | 0.753 | 180 | 0.934 | 216 | 1.000 | 252 | 0.932 | 288 | 0.754 |
| 1 | 0.598 | 37 | 0.645 | 73 | 0.596 | 109 | 0.590 | 145 | 0.759 | 181 | 0.938 | 217 | 0.999 | 253 | 0.928 | 289 | 0.748 |
| 2 | 0.600 | 38 | 0.645 | 74 | 0.594 | 110 | 0.593 | 146 | 0.765 | 182 | 0.941 | 218 | 0.999 | 254 | 0.924 | 290 | 0.742 |
| 3 | 0.603 | 39 | 0.645 | 75 | 0.592 | 111 | 0.596 | 147 | 0.771 | 183 | 0.944 | 219 | 0.999 | 255 | 0.920 | 291 | 0.737 |
| 4 | 0.605 | 40 | 0.644 | 76 | 0.590 | 112 | 0.600 | 148 | 0.777 | 184 | 0.948 | 220 | 0.998 | 256 | 0.916 | 292 | 0.731 |
| 5 | 0.607 | 41 | 0.644 | 77 | 0.589 | 113 | 0.603 | 149 | 0.783 | 185 | 0.951 | 221 | 0.998 | 257 | 0.912 | 293 | 0.726 |
| 6 | 0.609 | 42 | 0.643 | 78 | 0.587 | 114 | 0.607 | 150 | 0.789 | 186 | 0.954 | 222 | 0.998 | 258 | 0.908 | 294 | 0.720 |
| 7 | 0.611 | 43 | 0.643 | 79 | 0.586 | 115 | 0.610 | 151 | 0.795 | 187 | 0.956 | 223 | 0.997 | 259 | 0.904 | 295 | 0.714 |
| 8 | 0.614 | 44 | 0.642 | 80 | 0.584 | 116 | 0.614 | 152 | 0.801 | 188 | 0.959 | 224 | 0.996 | 260 | 0.899 | 296 | 0.709 |
| 9 | 0.616 | 45 | 0.641 | 81 | 0.583 | 117 | 0.618 | 153 | 0.806 | 189 | 0.962 | 225 | 0.996 | 261 | 0.895 | 297 | 0.703 |
| 10 | 0.618 | 46 | 0.640 | 82 | 0.582 | 118 | 0.622 | 154 | 0.812 | 190 | 0.964 | 226 | 0.995 | 262 | 0.890 | 298 | 0.698 |
| 11 | 0.619 | 47 | 0.640 | 83 | 0.581 | 119 | 0.625 | 155 | 0.817 | 191 | 0.966 | 227 | 0.994 | 263 | 0.886 | 299 | 0.692 |
| 12 | 0.621 | 48 | 0.639 | 84 | 0.580 | 120 | 0.629 | 156 | 0.823 | 192 | 0.968 | 228 | 0.993 | 264 | 0.881 | 300 | 0.687 |
| 13 | 0.623 | 49 | 0.638 | 85 | 0.579 | 121 | 0.633 | 157 | 0.828 | 193 | 0.971 | 229 | 0.992 | 265 | 0.876 | 301 | 0.682 |
| 14 | 0.625 | 50 | 0.637 | 86 | 0.578 | 122 | 0.637 | 158 | 0.834 | 194 | 0.973 | 230 | 0.990 | 266 | 0.872 | 302 | 0.676 |
| 15 | 0.627 | 51 | 0.636 | 87 | 0.577 | 123 | 0.641 | 159 | 0.839 | 195 | 0.975 | 231 | 0.989 | 267 | 0.867 | 303 | 0.671 |
| 16 | 0.628 | 52 | 0.634 | 88 | 0.576 | 124 | 0.646 | 160 | 0.844 | 196 | 0.977 | 232 | 0.987 | 268 | 0.862 | 304 | 0.666 |
| 17 | 0.630 | 53 | 0.633 | 89 | 0.575 | 125 | 0.650 | 161 | 0.849 | 197 | 0.979 | 233 | 0.985 | 269 | 0.857 | 305 | 0.661 |
| 18 | 0.632 | 54 | 0.632 | 90 | 0.574 | 126 | 0.654 | 162 | 0.854 | 198 | 0.980 | 234 | 0.983 | 270 | 0.852 | 306 | 0.656 |
| 19 | 0.633 | 55 | 0.631 | 91 | 0.573 | 127 | 0.659 | 163 | 0.859 | 199 | 0.982 | 235 | 0.981 | 271 | 0.847 | 307 | 0.651 |
| 20 | 0.634 | 56 | 0.629 | 92 | 0.572 | 128 | 0.663 | 164 | 0.864 | 200 | 0.984 | 236 | 0.979 | 272 | 0.842 | 308 | 0.646 |
| 21 | 0.636 | 57 | 0.628 | 93 | 0.572 | 129 | 0.668 | 165 | 0.869 | 201 | 0.986 | 237 | 0.977 | 273 | 0.836 | 309 | 0.641 |
| 22 | 0.637 | 58 | 0.626 | 94 | 0.571 | 130 | 0.673 | 166 | 0.874 | 202 | 0.988 | 238 | 0.975 | 274 | 0.831 | 310 | 0.637 |
| 23 | 0.638 | 59 | 0.625 | 95 | 0.570 | 131 | 0.678 | 167 | 0.879 | 203 | 0.990 | 239 | 0.972 | 275 | 0.826 | 311 | 0.632 |
| 24 | 0.639 | 60 | 0.623 | 96 | 0.570 | 132 | 0.683 | 168 | 0.883 | 204 | 0.991 | 240 | 0.970 | 276 | 0.820 | 312 | 0.628 |
| 25 | 0.640 | 61 | 0.621 | 97 | 0.570 | 133 | 0.688 | 169 | 0.888 | 205 | 0.993 | 241 | 0.967 | 277 | 0.815 | 313 | 0.624 |
| 26 | 0.641 | 62 | 0.619 | 98 | 0.570 | 134 | 0.694 | 170 | 0.893 | 206 | 0.994 | 242 | 0.964 | 278 | 0.810 | 314 | 0.619 |
| 27 | 0.642 | 63 | 0.618 | 99 | 0.570 | 135 | 0.699 | 171 | 0.897 | 207 | 0.995 | 243 | 0.961 | 279 | 0.804 | 315 | 0.615 |
| 28 | 0.643 | 64 | 0.616 | 100 | 0.571 | 136 | 0.705 | 172 | 0.902 | 208 | 0.996 | 244 | 0.958 | 280 | 0.799 | 316 | 0.612 |
| 29 | 0.643 | 65 | 0.613 | 101 | 0.572 | 137 | 0.711 | 173 | 0.906 | 209 | 0.997 | 245 | 0.955 | 281 | 0.793 | 317 | 0.608 |
| 30 | 0.644 | 66 | 0.611 | 102 | 0.573 | 138 | 0.716 | 174 | 0.910 | 210 | 0.998 | 246 | 0.952 | 282 | 0.787 | 318 | 0.604 |
| 31 | 0.644 | 67 | 0.609 | 103 | 0.575 | 139 | 0.722 | 175 | 0.914 | 211 | 0.999 | 247 | 0.949 | 283 | 0.782 | 319 | 0.601 |
| 32 | 0.645 | 68 | 0.607 | 104 | 0.577 | 140 | 0.728 | 176 | 0.919 | 212 | 0.999 | 248 | 0.946 | 284 | 0.776 | 320 | 0.597 |
| 33 | 0.645 | 69 | 0.605 | 105 | 0.579 | 141 | 0.734 | 177 | 0.923 | 213 | 0.999 | 249 | 0.942 | 285 | 0.771 | 321 | 0.594 |
| 34 | 0.645 | 70 | 0.602 | 106 | 0.581 | 142 | 0.740 | 178 | 0.927 | 214 | 1.000 | 250 | 0.939 | 286 | 0.765 | 322 | 0.591 |
| 35 | 0.645 | 71 | 0.600 | 107 | 0.584 | 143 | 0.747 | 179 | 0.930 | 215 | 1.000 | 251 | 0.935 | 287 | 0.759 | 323 | 0.589 |

Figure 1
Antenna Azimuthal Pattern
K29KY-D Blackfoot, ID
Facility ID 187479
Ch. 29 15 kW Directional

prepared for
Ventura Media Communications, LLC

December, 2023

Figure 2
Coverage Contour Comparison
K29KY-D Blackfoot, ID
Facility ID 187479
Ch. 29 15 kW Directional

prepared for
Ventura Media Communications, LLC
December, 2023

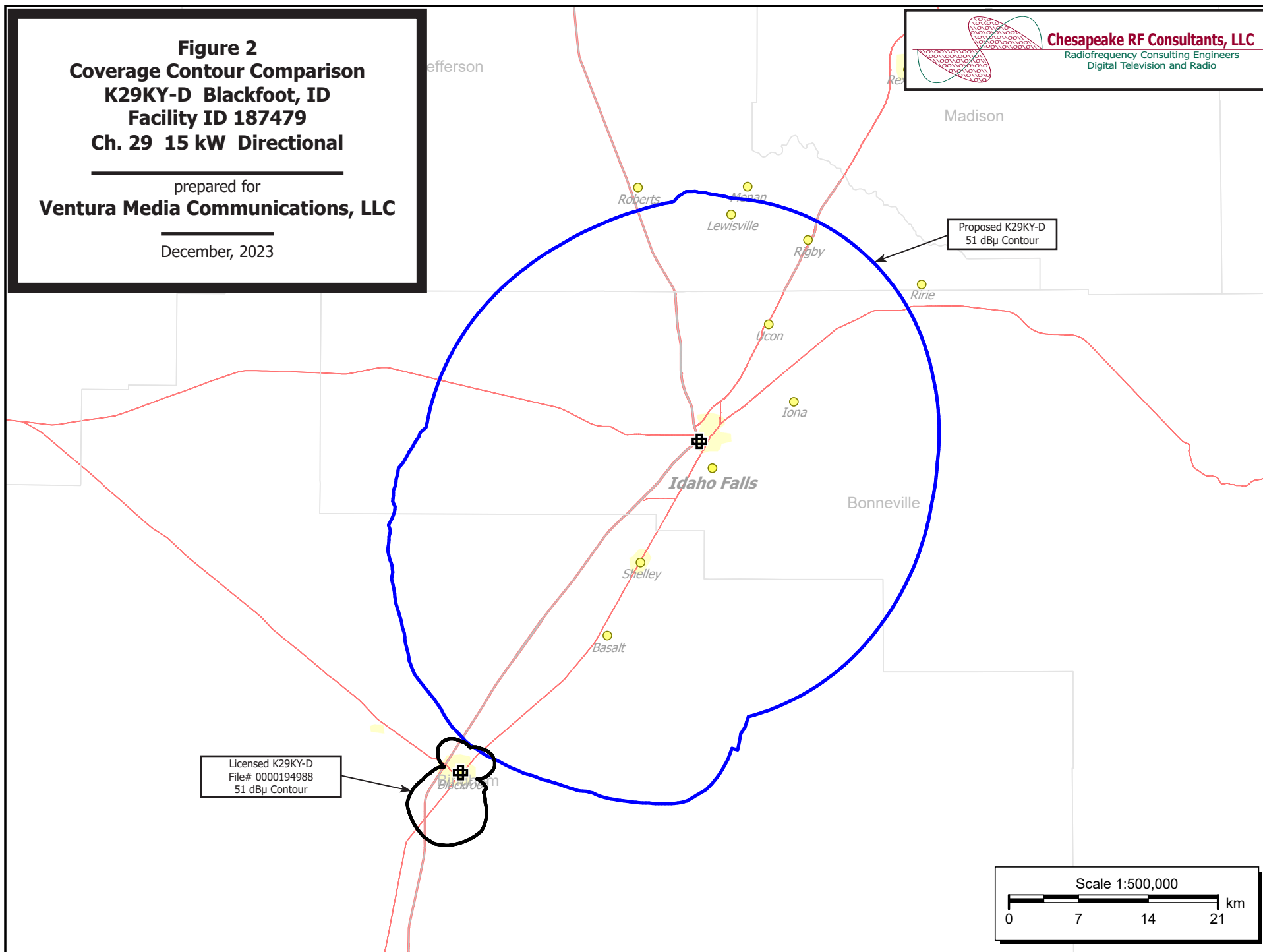


Table 1 K29KY-D TVStudy Analysis of Proposal (page 1 of 4)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K29KY-D 1217373, Model: Longley-Rice
Start: 2023.12.05 13:23:25

Study created: 2023.12.05 13:23:25

Study build station data: LMS TV 2023-12-04

Proposal: K29KY-D D29 LD APP BLACKFOOT, ID
File number: K29KY-D 1217373
Facility ID: 187479
Station data: User record
Record ID: 220
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|-----------|------|-----|--------|--------------------------|-------------------|----------|
| Yes | K28LE-D | D28 | LD | LIC | IDAHO FALLS, ID | BLDTL20140225ABP | 14.4 km |
| No | KSAW-LD | D28 | LD | LIC | TWIN FALLS, ID | BLANK0000176722 | 209.8 |
| No | DK28AZ | N28 | TX | APP | WEST YELLOWSTONE, MT | BLTT19880426IB | 155.8 |
| No | KIWB-LD | D29 | LD | LIC | BOISE, ID | BLANK0000126124 | 330.1 |
| No | K29NB-D | D29 | LD | LIC | CASCADE, ID | BLANK0000156694 | 339.7 |
| No | K29GV-D | D29 | LD | LIC | HAGERMAN, ID | BLDTL20100113ADE | 242.8 |
| Yes | K29KG-D | D29 | LD | CP | IDAHO FALLS, ID | BLANK0000213583 | 79.5 |
| Yes | K29KG-D | D29 | LD | LIC | IDAHO FALLS, ID | BLANK0000191324 | 79.5 |
| No | K29BM-D | D29 | LD | LIC | MONTPELIER, ID | BLDTT20111116AYI | 133.8 |
| No | K29EY-D | D29 | LD | LIC | PRESTON, ID | BLDTT20111116AIA | 153.5 |
| No | K29LY-D | D29 | LD | LIC | SALMON, ID | BLANK0000177419 | 240.8 |
| Yes | K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | 99.6 |
| No | KDBZ-CD | D29 | DC | LIC | BOZEMAN, MT | BLANK0000116068 | 246.7 |
| No | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 271.5 |
| No | K29JT-D | D29 | LD | CP | BUTTE, MT | BLANK0000183287 | 271.7 |
| No | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000198095 | 271.7 |
| No | KUHM-TV | D29 | DT | LIC | HELENA, MT | BLANK0000004580 | 371.6 |
| No | KUHM-TV | D29 | DT | CP | HELENA, MT | BLANK0000035768 | 371.6 |
| No | K29IN-D | D29 | LD | LIC | COALVILLE AND ADJ.AR, UT | BLDTT20090624AAY | 290.3 |
| No | K29MC-D | D29 | LD | LIC | HEBER CITY, UT | BLANK0000115848 | 328.9 |
| No | K29FY-D | D29 | LD | LIC | HENEFER/ECHO, UT | BLDTT20110314ACH | 283.9 |
| No | K29MX-D | D29 | LD | LIC | MANILA, ETC, UT | BLANK0000095217 | 355.1 |
| No | K29II-D | D29 | LD | LIC | PARK CITY, UT | BLDTT20090414AFT | 315.1 |
| No | K29MF-D | D29 | LD | LIC | PEOA AND OAKLEY, UT | BLANK0000093229 | 312.8 |
| No | KUPX-TV | D29 | DT | LIC | PROVO, UT | BLCDT20020510AAP | 315.6 |
| No | K29MY-D | D29 | LD | LIC | RANDOLPH, UT | BLANK0000093592 | 220.8 |
| No | K29IM-D | D29 | LD | LIC | SAMAK, UT | BLDTT20090624ABL | 324.3 |
| No | K29HX-D | D29 | LD | LIC | WANSHIP, UT | BLDTT20090624ADL | 302.9 |
| Yes | K29HG-D | D29 | LD | LIC | JACKSON, WY | BLDTL20090224AAW | 95.7 |
| No | K29HV-D | D29 | LD | LIC | LA BARGE, ETC., WY | BLDTT20070523ACE | 204.1 |
| No | K29IH-D | D29 | LD | LIC | MEETEETSE, ETC., WY | BLANK0000120349 | 268.0 |
| No | DDKSWY-LP | D29 | LD | APP | SHERIDAN, WY | BLANK0000071563 | 427.1 |
| No | K29IG-D | D29 | LD | LIC | SUNLIGHT BASIN, WY | BLANK0000137989 | 255.4 |
| No | K30QH-D | D30 | LD | LIC | BURLEY, ETC., ID | BLANK0000068251 | 173.8 |
| No | K30BU-D | D30 | LD | LIC | LEADORE, ID | BLDTT20101216AAS | 169.6 |
| No | K30OX-D | D30 | LD | LIC | MONTPELIER, ID | BLANK0000063416 | 133.8 |
| No | K31DC-D | N31 | TX | LIC | FREEDOM, WY | BLTT20050303AAK | 85.1 |
| No | K32LS-D | N32z | TX | CP | DRIGGS, ID | BDISTT20130802ACU | 95.6 |
| No | K33DS-D | N33- | TX | LIC | FREEDOM-ETNA, WY | BLTT19921130JH | 94.6 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
Mask: Full Service
Latitude: 43 29 27.00 N (NAD83)

Table 1 K29KY-D TV Study Analysis of Proposal
(page 2 of 4)



Longitude: 112 2 58.00 W
Height AMSL: 1478.9 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Dielectric-DLP-8B (ID 1010939) 215.0 deg
Elev Pattern: Generic
Elec Tilt: 1.00

50.2 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|---------|--------|----------|
| 0.0 deg | 5.34 kW | 32.1 m | 25.9 km |
| 45.0 | 6.16 | 17.8 | 26.0 |
| 90.0 | 4.95 | -5.9 | 25.0 |
| 135.0 | 7.33 | -23.9 | 26.8 |
| 180.0 | 13.0 | 54.1 | 36.0 |
| 225.0 | 14.9 | 60.3 | 37.8 |
| 270.0 | 10.9 | 33.0 | 29.4 |
| 315.0 | 5.67 | 10.3 | 25.7 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 22 m

Distance to Canadian border: 612.2 km

Distance to Mexican border: 1219.7 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 310.7 degrees Distance: 1009.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 121.1 degrees Distance: 673.8 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLDL20140225ABP LIC scenario 1

| Call | Chan | Svc | Status | City, State | File Number | Distance |
|---------------------|-----------------|-------------------|------------------|-----------------|-----------------|-----------|
| Desired: K28LE-D | D28 | LD | LIC | IDAHO FALLS, ID | BLDL20140225ABP | |
| Undesireds: K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 14.4 km |
| KYUU-LD | D28 | LD | CP | BOISE, ID | BLANK0000226111 | 339.6 |
| K29KG-D | D29 | LD | CP | IDAHO FALLS, ID | BLANK0000213583 | 91.3 |
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX | | |
| 6451.2 | 188,898 | 5933.0 | 188,756 | 5933.0 | 188,748 | 0.39 0.00 |
| Undesired | Total IX | Unique IX, before | Unique IX, after | | | |
| K29KY-D D29 LD APP | 23.0 | 8 | 23.0 | 8 | | |

Interference to BLANK0000213583 CP scenario 1

****IX: 4.45% interference caused**

K29KG-D CP is accepting 4.45 percent interference – see text

| Call | Chan | Svc | Status | City, State | File Number | Distance |
|---------------------|-----------------|-----------------|----------------|------------------|------------------|------------------|
| Desired: K29KG-D | D29 | LD | CP | IDAHO FALLS, ID | BLANK0000213583 | |
| Undesireds: K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 79.5 km |
| K28LE-D | D28 | LD | LIC | IDAHO FALLS, ID | BLDL20140225ABP | 91.3 |
| K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | 72.3 |
| K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 339.7 |
| KUPX-TV | D29 | DT | LIC | PROVO, UT | BLCDT20020510AAP | 247.1 |
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX | | |
| 4884.6 | 114,984 | 4059.4 | 110,281 | 3906.5 | 101,817 | 6.01 4.45 |

Table 1 K29KY-D TV Study Analysis of Proposal
(page 3 of 4)



| Undesired | | Total IX | Unique IX, before | Unique IX, after |
|--------------------|-------|----------|-------------------|------------------|
| K29KY-D D29 LD APP | 378.5 | 8,464 | | 234.6 4,742 |
| K28LE-D D28 LD LIC | 145.9 | 3,722 | 145.9 3,722 | 2.0 0 |
| K29LG-D D29 LD LIC | 4.0 | 0 | 3.0 0 | 3.0 0 |
| KUPX-TV D29 DT LIC | 4.0 | 0 | 3.0 0 | 3.0 0 |

Interference to BLANK0000191324 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---------------|---------|-----------------|-----|-----------------|------------------|------------------|----------------|
| | K29KG-D | D29 | LD | LIC | IDAHO FALLS, ID | BLANK0000191324 | |
| Undesireds: | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 79.5 km |
| | K28LE-D | D28 | LD | LIC | IDAHO FALLS, ID | BLDTL20140225ABP | 91.3 |
| | K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | 72.3 |
| | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 339.7 |
| | KUPX-TV | D29 | DT | LIC | PROVO, UT | BLCDT20020510AAP | 247.1 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 2066.2 99,404 | | 1685.8 97,198 | | 1669.8 93,934 | | 1608.6 92,983 | 3.67 1.01 |

| Undesired | | Total IX | Unique IX, before | Unique IX, after |
|--------------------|------|----------|-------------------|------------------|
| K29KY-D D29 LD APP | 76.3 | 4,215 | | 61.3 951 |
| K28LE-D D28 LD LIC | 10.0 | 3,231 | 9.0 3,231 | 0.0 0 |
| K29LG-D D29 LD LIC | 5.0 | 0 | 5.0 0 | 1.0 0 |
| KUPX-TV D29 DT LIC | 2.0 | 33 | 1.0 33 | 0.0 0 |

Interference to BLANK0000059259 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---------------|---------|-----------------|-----|-----------------|------------------|------------------|----------------|
| | K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | |
| Undesireds: | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 99.6 km |
| | K29KG-D | D29 | LD | CP | IDAHO FALLS, ID | BLANK0000213583 | 72.3 |
| | K29BM-D | D29 | LD | LIC | MONTPELIER, ID | BLDTT20111116AYI | 37.0 |
| | K29EY-D | D29 | LD | LIC | PRESTON, ID | BLDTT20111116AIA | 56.9 |
| | KUPX-TV | D29 | DT | LIC | PROVO, UT | BLCDT20020510AAP | 224.1 |
| | K29HG-D | D29 | LD | LIC | JACKSON, WY | BLDTL20090224AAW | 126.2 |
| | K300X-D | D30 | LD | LIC | MONTPELIER, ID | BLANK0000063416 | 37.0 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 5903.8 13,710 | | 4163.7 8,079 | | 3999.6 8,007 | | 3998.6 8,007 | 0.03 0.00 |

| Undesired | | Total IX | Unique IX, before | Unique IX, after |
|--------------------|------|----------|-------------------|------------------|
| K29KY-D D29 LD APP | 2.0 | 0 | | 1.0 0 |
| K29KG-D D29 LD CP | 4.0 | 0 | 4.0 0 | 4.0 0 |
| K29BM-D D29 LD LIC | 75.7 | 54 | 65.6 23 | 64.6 23 |
| K29EY-D D29 LD LIC | 65.3 | 14 | 64.3 14 | 64.3 14 |
| KUPX-TV D29 DT LIC | 25.1 | 4 | 18.1 4 | 18.1 4 |
| K29HG-D D29 LD LIC | 1.0 | 0 | 1.0 0 | 1.0 0 |
| K300X-D D30 LD LIC | 4.1 | 31 | 0.0 0 | 0.0 0 |

Interference to BLANK0000059259 LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---------------|---------|-----------------|-----|-----------------|------------------|------------------|----------------|
| | K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | |
| Undesireds: | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 99.6 km |
| | K29BM-D | D29 | LD | LIC | MONTPELIER, ID | BLDTT20111116AYI | 37.0 |
| | K29EY-D | D29 | LD | LIC | PRESTON, ID | BLDTT20111116AIA | 56.9 |
| | KUPX-TV | D29 | DT | LIC | PROVO, UT | BLCDT20020510AAP | 224.1 |
| | K29HG-D | D29 | LD | LIC | JACKSON, WY | BLDTL20090224AAW | 126.2 |
| | K300X-D | D30 | LD | LIC | MONTPELIER, ID | BLANK0000063416 | 37.0 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 5903.8 13,710 | | 4163.7 8,079 | | 4003.6 8,007 | | 4002.6 8,007 | 0.03 0.00 |

| Undesired | | Total IX | Unique IX, before | Unique IX, after |
|--------------------|------|----------|-------------------|------------------|
| K29KY-D D29 LD APP | 2.0 | 0 | | 1.0 0 |
| K29BM-D D29 LD LIC | 75.7 | 54 | 65.6 23 | 64.6 23 |
| K29EY-D D29 LD LIC | 65.3 | 14 | 64.3 14 | 64.3 14 |

Table 1 K29KY-D TVStudy Analysis of Proposal
(page 4 of 4)



| | | | | | | |
|--------------------|------|----|------|---|------|---|
| KUPX-TV D29 DT LIC | 25.1 | 4 | 18.1 | 4 | 18.1 | 4 |
| K29HG-D D29 LD LIC | 1.0 | 0 | 1.0 | 0 | 1.0 | 0 |
| K30OX-D D30 LD LIC | 4.1 | 31 | 0.0 | 0 | 0.0 | 0 |

Interference to BLDTL20090224AAW LIC scenario 1

| | | | | | | | |
|--------------------|----------|-----------------|-------------------|-----------------|------------------|------------------|----------------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K29HG-D | D29 | LD | LIC | JACKSON, WY | BLDTL20090224AAW | |
| Undesireds: | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 95.7 km |
| | K29KG-D | D29 | LD | CP | IDAHO FALLS, ID | BLANK0000213583 | 156.5 |
| | K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | 126.2 |
| | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 285.5 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 1979.2 | 19,929 | 1747.7 | 19,388 | 1742.7 | 19,388 | 1738.6 19,388 | 0.23 0.00 |
| Undesired | Total IX | | Unique IX, before | | Unique IX, after | | |
| K29KY-D D29 LD APP | 6.1 | 0 | | | 4.1 | 0 | |
| K29KG-D D29 LD CP | 3.0 | 0 | 3.0 | 0 | 1.0 | 0 | |
| K29LG-D D29 LD LIC | 2.0 | 0 | 2.0 | 0 | 2.0 | 0 | |

Interference to BLDTL20090224AAW LIC scenario 2

| | | | | | | | |
|--------------------|----------|-----------------|-------------------|-----------------|------------------|------------------|----------------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K29HG-D | D29 | LD | LIC | JACKSON, WY | BLDTL20090224AAW | |
| Undesireds: | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | 95.7 km |
| | K29LG-D | D29 | LD | LIC | SODA SPRINGS, ID | BLANK0000059259 | 126.2 |
| | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 285.5 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 1979.2 | 19,929 | 1747.7 | 19,388 | 1745.7 | 19,388 | 1739.6 19,388 | 0.35 0.00 |
| Undesired | Total IX | | Unique IX, before | | Unique IX, after | | |
| K29KY-D D29 LD APP | 6.1 | 0 | | | 6.1 | 0 | |
| K29LG-D D29 LD LIC | 2.0 | 0 | 2.0 | 0 | 2.0 | 0 | |

Interference to proposal scenario 1
13.73% interference received

| | | | | | | | |
|--------------------|----------|-----------------|-----------|---------|-----------------|------------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | |
| Undesireds: | K28LE-D | D28 | LD | LIC | IDAHO FALLS, ID | BLDTL20140225ABP | 14.4 km |
| | K29KG-D | D29 | LD | CP | IDAHO FALLS, ID | BLANK0000213583 | 79.5 |
| | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 271.5 |
| Service area | | Terrain-limited | | IX-free | | Percent IX | |
| 2677.9 | 135,810 | 2506.8 | 135,737 | 1739.2 | 117,099 | 30.62 13.73 | |
| Undesired | Total IX | | Unique IX | | Prcnt Unique IX | | |
| K28LE-D D28 LD LIC | 551.2 | 7,229 | 218.0 | 3,069 | 8.70 | 2.26 | |
| K29KG-D D29 LD CP | 549.6 | 15,569 | 216.4 | 11,409 | 8.63 | 8.41 | |

Interference to proposal scenario 2
5.39% interference received

| | | | | | | | |
|--------------------|----------|-----------------|-----------|---------|-----------------|------------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K29KY-D | D29 | LD | APP | BLACKFOOT, ID | K29KY-D 1217373 | |
| Undesireds: | K28LE-D | D28 | LD | LIC | IDAHO FALLS, ID | BLDTL20140225ABP | 14.4 km |
| | K29KG-D | D29 | LD | LIC | IDAHO FALLS, ID | BLANK0000191324 | 79.5 |
| | K29JT-D | D29 | LD | LIC | BUTTE, MT | BLANK0000170478 | 271.5 |
| Service area | | Terrain-limited | | IX-free | | Percent IX | |
| 2677.9 | 135,810 | 2506.8 | 135,737 | 1939.5 | 128,421 | 22.63 5.39 | |
| Undesired | Total IX | | Unique IX | | Prcnt Unique IX | | |
| K28LE-D D28 LD LIC | 551.2 | 7,229 | 279.6 | 4,709 | 11.15 | 3.47 | |
| K29KG-D D29 LD LIC | 287.7 | 2,607 | 16.0 | 87 | 0.64 | 0.06 | |

**Channel and
Facility
Information**

| Section | Question | Response |
|-------------|-----------|----------|
| Facility ID | 187479 | |
| State | Idaho | |
| City | BLACKFOOT | |
| LPD Channel | 29 | |

Antenna Location
Data

| Section | Question | Response |
|-----------------------------------|---|---------------------------------------|
| Antenna Structure Registration | Do you have an FCC Antenna Structure Registration (ASR) Number? | Yes |
| | ASR Number | 1217373 |
| Coordinates (NAD83) | Latitude | 43° 29' 27.0" N+ |
| | Longitude | 112° 02' 58.0" W- |
| | Structure Type | TOWER-A free standing or guyed struct |
| | Overall Structure Height | 57.3 meters |
| | Support Structure Height | 54.9 meters |
| | Ground Elevation (AMSL) | 1433.2 meters |
| Antenna Data | Height of Radiation Center Above Ground Level | 45.7 meters |
| | Height of Radiation Center Above Mean Sea Level | 1478.9 meters |
| | Effective Radiated Power | 15 kW |

Antenna
Technical Data

| Section | Question | Response |
|--------------------------------|---|--------------------|
| Antenna Type | Antenna Type | Directional Custom |
| | Do you have an Antenna ID? | Yes |
| | Antenna ID | 1010939 |
| Antenna Manufacturer and Model | Manufacturer: | Dielectric |
| | Model | DLP-8B |
| | Rotation | 215 degrees |
| | Electrical Beam Tilt | 1.0 |
| | Mechanical Beam Tilt | Not Applicable |
| | toward azimuth | |
| | Polarization | Horizontal |
| Elevation Radiation Pattern | Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt? | No |
| | Uploaded file for elevation antenna (or radiation) pattern data | |
| | Out-of-Channel Emission Mask: | Full Service |

Directional Antenna Relative Field Values (Pre-rotated Pattern)

| Degree | Value | Degree | Value | Degree | Value | Degree | Value |
|--------|-------|--------|-------|--------|-------|--------|-------|
| 0 | 1.000 | 90 | 0.661 | 180 | 0.645 | 270 | 0.650 |
| 10 | 0.996 | 100 | 0.615 | 190 | 0.641 | 280 | 0.699 |
| 20 | 0.981 | 110 | 0.583 | 200 | 0.631 | 290 | 0.759 |
| 30 | 0.955 | 120 | 0.569 | 210 | 0.613 | 300 | 0.817 |
| 40 | 0.920 | 130 | 0.571 | 220 | 0.592 | 310 | 0.869 |
| 50 | 0.876 | 140 | 0.586 | 230 | 0.579 | 320 | 0.914 |
| 60 | 0.826 | 150 | 0.607 | 240 | 0.570 | 330 | 0.951 |
| 70 | 0.771 | 160 | 0.627 | 250 | 0.579 | 340 | 0.975 |
| 80 | 0.714 | 170 | 0.640 | 260 | 0.610 | 350 | 0.993 |

Additional Azimuths

| Degree | V _A |
|--------|----------------|
|--------|----------------|