tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1,  Study: BLTTL20011115ACR,  Model: Longley-Rice
Start: 2020.11.28 10:31:35

Study created: 2020.11.28 10:31:35

Study build station data: LMS TV 2020-11-26

    Proposal: K15FJ D15 LD LIC LAKEPORT, CA
 File number: BLTTL20011115ACR
 Facility ID: 65787
Station data: User record
   Record ID: 97
     Country: U.S.
        Zone: II

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

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| No | KVIQ-LP | D14 | LD | LIC | Eureka, ca, CA | BLANK0000034113 | 213.1 km |
| No | KSAO-LD | D14 | LD | LIC | SACRAMENTO, CA | BLANK0000112334 | 151.0 |
| No | KQTA-LD | D14 | LD | CP | San Francisco, CA | BLANK0000075058 | 145.7 |
| No | KDTS-LD | D14 | LD | CP | SAN FRANCISCO, CA | BLANK0000115857 | 145.7 |
| No | KMMC-LD | D14 | LD | CP | SAN FRANCISCO, CA | BLANK0000074648 | 145.7 |
| No | KBSV | D15 | DT | APP | CERES, CA | BLANK0000072220 | 225.9 |
| Yes | KBSV | D15 | DT | LIC | CERES, CA | BLEDT20090213AAZ | 209.5 |
| No | K15HV-D | D15 | LD | LIC | CHICO, CA | BLDTL20080805AAT | 136.0 |
| Yes | K15CX-D | D15 | LD | LIC | OROVILLE, CA | BLANK0000069527 | 112.2 |
| No | K15KO-D | D15z | LD | LIC | REDDING, CA | BLANK0000081628 | 180.3 |
| No | K15CU-D | D15 | LD | LIC | SALINAS, CA | BLDTL20140730AEK | 277.3 |
| No | KSBY | D15 | DT | LIC | SAN LUIS OBISPO, CA | BLCDT20081118AEW | 449.9 |
| No | K15IC-D | D15 | LD | LIC | WEED, CA | BLDTL20140221ACR | 267.7 |
| Yes | KYUB-LD | D15 | LD | CP | Yuba City, CA | BLANK0000054788 | 83.6 |
| No | K15LG-D | D15 | LD | LIC | HAWTHORNE, NV | BLANK0000063682 | 353.0 |
| No | KNPB | D15 | LD | APP | RENO, NV | BDRTEDT20090825BIO | 245.2 |
| Yes | KNPB | D15 | DT | LIC | RENO, NV | BLEDT20031023AAU | 262.1 |
| No | K15JZ-D | D15 | LD | LIC | APPLEGATE VALLEY, OR | BLANK0000024546 | 353.7 |
| No | K15IM-D | D15 | LD | LIC | BROOKINGS, ETC, OR | BLDTT20111103AKT | 366.0 |
| No | K15KJ-D | D15 | LD | LIC | GOLD HILL, OR | BLANK0000067488 | 376.7 |
| No | K15KL-D | D15 | LD | LIC | JACKSONVILLE, OR | BLANK0000072434 | 366.9 |
| No | K15KE-D | D15 | LD | LIC | KLAMATH FALLS, ETC, OR | BLANK0000011186 | 365.0 |
| No | K16JJ-D | D16 | LD | CP | EUREKA, CA | BLANK0000010786 | 213.1 |
| No | K16KV-D | D16 | LD | CP | ORLAND, CA | BNPDTL20100514AAD | 84.6 |
| No | K16LP-D | D16 | LD | LIC | PARADISE, CA | BLANK0000058730 | 136.6 |
| No | K16IW-D | D16 | LD | CP | REDDING, CA | BLANK0000010674 | 180.3 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D15
       Mask: Simple
   Latitude:  39  2 34.60 N (NAD83)
  Longitude: 122 46  1.00 W
Height AMSL: 619.0 m
       HAAT: 25.0 m
   Peak ERP: 0.200 kW
    Antenna: CL1469 260.0 deg
Elev Pattrn: Generic

48.8 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---|---|---|---|
| 0.0 deg | 0.000 kW | -386.1 m | 3.6 km |
| 45.0 | 0.000 | -174.3 | 3.6 |
| 90.0 | 0.000 | 72.3 | 2.0 |
| 135.0 | 0.000 | 207.4 | 2.7 |
| 180.0 | 0.000 | -149.6 | 3.6 |
| 225.0 | 0.049 | 187.9 | 22.3 |
| 270.0 | 0.178 | 204.8 | 29.7 |
| 315.0 | 0.000 | 213.6 | 7.3 |

Database HAAT does not agree with computed HAAT
Database HAAT: 25 m   Computed HAAT: 22 m

Distance to Canadian border: 1022.4 km

Distance to Mexican border: 861.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 148.6 degrees   Distance: 171.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 79.7 degrees  Distance: 1502.5 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

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Interference to BLEDT20090213AAZ LIC scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| Desired: | KBSV | D15 | DT | LIC | CERES, CA | BLEDT20090213AAZ | |
| Undesireds: | K15FJ | N15+ | TX | LIC | LAKEPORT, CA | BLTTL20011115ACR | 204.8 km |
| | K15FJ | D15 | LD | LIC | LAKEPORT, CA | BLTTL20011115ACR | 209.5 |
| | KEZT-CD | D14 | DC | BL | SACRAMENTO, CA | DTVBL52891 | 118.0 |
| | KKPX-TV | D14 | DT | BL | SAN JOSE, CA | DTVBL22644 | 95.6 |
| | KSBY | D15 | DT | LIC | SAN LUIS OBISPO, CA | BLCDT20081118AEW | 247.1 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|---|---|---|---|---|---|---|---|---|---|
| 9519.8 | 1,356,966 | 8427.8 | 1,264,764 | 8372.5 | 1,264,647 | 8373.5 | 1,264,647 | -0.01 | 0.00 |

| Undesired | Total IX | Unique IX, before | | Unique IX, after | |
|---|---|---|---|---|---|
| K15FJ N15+ TX LIC | 2.0 | 0 | 1.0 | 0 | |
| K15FJ D15 LD LIC | 0.0 | 0 | | 0.0 | 0 |
| KEZT-CD D14 DC BL | 1.0 | 0 | 0.0 | 0 | 1.0 | 0 |
| KKPX-TV D14 DT BL | 9.1 | 12 | 8.1 | 12 | 8.1 | 12 |
| KSBY D15 DT LIC | 45.2 | 105 | 44.1 | 105 | 44.1 | 105 |

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Interference to BLANK0000069527 LIC scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| Desired: | K15CX-D | D15 | LD | LIC | OROVILLE, CA | BLANK0000069527 | |
| Undesireds: | K15FJ | N15+ | TX | LIC | LAKEPORT, CA | BLTTL20011115ACR | 115.0 km |
| | K15FJ | D15 | LD | LIC | LAKEPORT, CA | BLTTL20011115ACR | 112.2 |
| | KBSV | D15 | DT | APP | CERES, CA | BLANK0000072220 | 215.2 |
| | K15HV-D | D15 | LD | LIC | CHICO, CA | BLDTL20080805AAT | 56.2 |
| | KYUB-LD | D15 | LD | CP | Yuba City, CA | BLANK0000054788 | 35.2 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|---|---|---|---|---|---|---|---|---|---|
| 613.4 | 42,085 | 570.6 | 41,550 | 478.7 | 40,799 | 479.7 | 40,799 | -0.21 | 0.00 |

| Undesired | Total IX | Unique IX, before | | Unique IX, after | |
|---|---|---|---|---|---|
| K15FJ N15+ TX LIC | 5.0 | 66 | 1.0 | 0 | |
| K15FJ D15 LD LIC | 0.0 | 0 | | 0.0 | 0 |
| K15HV-D D15 LD LIC | 73.1 | 655 | 67.2 | 592 | 67.2 | 592 |
| KYUB-LD D15 LD CP | 23.7 | 159 | 13.8 | 30 | 17.8 | 96 |

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Interference to BLANK0000069527 LIC scenario 2

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| Desired: | K15CX-D | D15 | LD | LIC | OROVILLE, CA | BLANK0000069527 | |
| Undesireds: | K15FJ | N15+ | TX | LIC | LAKEPORT, CA | BLTTL20011115ACR | 115.0 km |
| | K15FJ | D15 | LD | LIC | LAKEPORT, CA | BLTTL20011115ACR | 112.2 |
| | KBSV | D15 | DT | LIC | CERES, CA | BLEDT20090213AAZ | 218.1 |
| | K15HV-D | D15 | LD | LIC | CHICO, CA | BLDTL20080805AAT | 56.2 |
| | KYUB-LD | D15 | LD | CP | Yuba City, CA | BLANK0000054788 | 35.2 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|---|---|---|---|---|---|---|---|---|---|
| 613.4 | 42,085 | 570.6 | 41,550 | 476.7 | 40,799 | 476.7 | 40,799 | 0.00 | 0.00 |

| Undesired | Total IX | Unique IX, before | | Unique IX, after | |
|---|---|---|---|---|---|
| K15FJ N15+ TX LIC | 5.0 | 66 | 0.0 | 0 | |
| K15FJ D15 LD LIC | 0.0 | 0 | | 0.0 | 0 |
| KBSV D15 DT LIC | 3.9 | 0 | 2.0 | 0 | 3.0 | 0 |
| K15HV-D D15 LD LIC | 73.1 | 655 | 67.2 | 592 | 67.2 | 592 |
| KYUB-LD D15 LD CP | 23.7 | 159 | 13.8 | 30 | 16.8 | 96 |

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Interference to BLANK0000054788 CP scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|

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Desired:     KYUB-LD   D15   LD  CP      Yuba City, CA             BLANK0000054788

Undesireds:  K15FJ     N15+  TX  LIC     LAKEPORT, CA              BLTTL20011115ACR         85.3 km
             K15FJ     D15   LD  LIC     LAKEPORT, CA              BLTTL20011115ACR         83.6
             KMMW-LD   D14   LD  CP      STOCKTON, CA              BLANK0000105750         153.7
             KBSV      D15   DT  APP     CERES, CA                 BLANK0000072220         194.8
             K15HV-D   D15   LD  LIC     CHICO, CA                 BLDTL20080805AAT         84.1
             K15CX-D   D15   LD  LIC     OROVILLE, CA              BLANK0000069527          35.2
             KNPB      D15   LD  APP     RENO, NV                  BDRTEDT20090825BIO      162.0

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  5624.2     365,911    5490.5     365,557    4901.7     350,883    4906.6     350,958    -0.10    -0.02

Undesired                          Total IX     Unique IX, before      Unique IX, after
K15FJ N15+ TX LIC         23.8          509       5.0           75
K15FJ D15 LD LIC           0.0            0                           0.0           0
K15HV-D D15 LD LIC       582.8       14,599     547.1      14,156     566.0      14,590
K15CX-D D15 LD LIC        14.9            9       0.0            0       0.0           0
KNPB D15 LD APP            3.0            0       1.0            0       1.0           0

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Interference to BLANK0000054788 CP scenario 2

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KYUB-LD   D15   LD  CP      Yuba City, CA             BLANK0000054788

Undesireds:  K15FJ     N15+  TX  LIC     LAKEPORT, CA              BLTTL20011115ACR         85.3 km
             K15FJ     D15   LD  LIC     LAKEPORT, CA              BLTTL20011115ACR         83.6
             KMMW-LD   D14   LD  CP      STOCKTON, CA              BLANK0000105750         153.7
             KBSV      D15   DT  LIC     CERES, CA                 BLEDT20090213AAZ        192.7
             K15HV-D   D15   LD  LIC     CHICO, CA                 BLDTL20080805AAT         84.1
             K15CX-D   D15   LD  LIC     OROVILLE, CA              BLANK0000069527          35.2
             KNPB      D15   LD  APP     RENO, NV                  BDRTEDT20090825BIO      162.0

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  5624.2     365,911    5490.5     365,557    4900.7     350,883    4905.6     350,958    -0.10    -0.02

Undesired                          Total IX     Unique IX, before      Unique IX, after
K15FJ N15+ TX LIC         23.8          509       5.0           75
K15FJ D15 LD LIC           0.0            0                           0.0           0
KBSV D15 DT LIC            4.0            0       1.0            0       1.0           0
K15HV-D D15 LD LIC       582.8       14,599     545.1      14,156     564.0      14,590
K15CX-D D15 LD LIC        14.9            9       0.0            0       0.0           0
KNPB D15 LD APP            3.0            0       1.0            0       1.0           0

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Interference to BLEDT20031023AAU LIC scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KNPB      D15   DT  LIC     RENO, NV                  BLEDT20031023AAU

Undesireds:  K15FJ     N15+  TX  LIC     LAKEPORT, CA              BLTTL20011115ACR        263.8 km
             K15FJ     D15   LD  LIC     LAKEPORT, CA              BLTTL20011115ACR        262.1
             KBSV      D15   DT  APP     CERES, CA                 BLANK0000072220         243.5

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
 12604.8     604,932    6137.9     457,255    6134.9     457,255    6137.9     457,255    -0.05     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
K15FJ N15+ TX LIC          3.0            0       3.0            0
K15FJ D15 LD LIC           0.0            0                           0.0           0

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Interference to BLEDT20031023AAU LIC scenario 2

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KNPB      D15   DT  LIC     RENO, NV                  BLEDT20031023AAU

Undesireds:  K15FJ     N15+  TX  LIC     LAKEPORT, CA              BLTTL20011115ACR        263.8 km
             K15FJ     D15   LD  LIC     LAKEPORT, CA              BLTTL20011115ACR        262.1
             KBSV      D15   DT  LIC     CERES, CA                 BLEDT20090213AAZ        268.2

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
 12604.8     604,932    6137.9     457,255    6132.9     457,255    6134.9     457,255    -0.03     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
K15FJ N15+ TX LIC          3.0            0       2.0            0
K15FJ D15 LD LIC           0.0            0                           0.0           0
KBSV D15 DT LIC            3.0            0       2.0            0       3.0           0

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Interference to proposal scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     K15FJ     D15   LD  LIC     LAKEPORT, CA              BLTTL20011115ACR
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Undesireds: KBSV D15 DT APP CERES, CA BLANK0000072220 225.9 km

| Service area | | Terrain-limited | | IX-free | | Percent IX | |
|---|---|---|---|---|---|---|---|
| 577.4 | 17,091 | 504.7 | 14,414 | 504.7 | 14,414 | 0.00 | 0.00 |