tvstudy v2.2.2
Database: localhost,  Study: KSBS-P6,  Model: Longley-Rice
Start: 2017.05.25

Study created: 2017.05.25

Study build station data: LMS TV 2017-05-22 (8)

    Proposal: KSBS-P6 D19 DC APP DENVER, CO
 File number: KSBS-P6
 Facility ID: 168750
Station data: User record
   Record ID: 264
     Country: U.S.

Stations potentially affected:

| Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|
| KPXC-TV | D18 | DT | BL | DENVER, CO | DTVBL68695 | 50.1 km |
| KWKS | D19 | DT | LIC | COLBY, KS | BLEDT20070601ATA | 336.8 |
| KRMT | D20 | DT | BL | DENVER, CO | DTVBL20476 | 14.6 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D19
       Mask: Full Service
   Latitude:  39 43 45.90 N (NAD83)
  Longitude: 105 14  9.90 W
Height AMSL: 2255.0 m
       HAAT: 0.0 m
   Peak ERP: 8.00 kW
    Antenna: DIE-TUM-TU-02/02M 0.0 deg

49.3 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---|---|---|---|
| 0.0 deg | 0.024 kW | 414.5 m | 26.0 km |
| 45.0 | 0.623 | 537.2 | 48.6 |
| 90.0 | 7.42 | 544.5 | 63.8 |
| 135.0 | 3.01 | 465.7 | 55.9 |
| 180.0 | 0.007 | 78.8 | 8.6 |
| 225.0 | 0.028 | -12.8 | 7.7 |
| 270.0 | 0.024 | -21.0 | 7.4 |
| 315.0 | 0.016 | -182.6 | 6.7 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 228 m

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1030.4 km

Distance to Mexican border: 890.8 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 74.9 degrees   Distance: 591.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 358.0 degrees   Distance: 43.2 km
ERP: 0.028 kW   Field strength: 57.6 dBu, 0.8 mV/m

No land mobile station failures found

Study cell size: 2.00 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 DTVBL68695 BL, scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| Desired: | KPXC-TV | D18 | DT | BL | DENVER, CO | DTVBL68695 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Undesireds: | KSBS-CD | D19 | DC | BL | DENVER, CO | DTVBL168750 | 50.1 km |
| | KSBS-P6 | D19 | DC | APP | DENVER, CO | KSBS-P6 | 50.1 |
| | KPJR-TV | D17 | DT | BL | GREELEY, CO | DTVBL166510 | 0.0 |
| | KRMJ | D18 | DT | LIC | GRAND JUNCTION, CO | BLEDT20100430ADO | 348.8 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|---|---|---|---|---|---|---|---|---|---|
| 28919.2 | 3,399,620 | 26810.4 | 3,371,200 | 26786.6 | 3,364,065 | 26806.5 | 3,367,811 | -0.07 | -0.11 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|---|---|---|---|
| KSBS-CD D19 DC BL | 23.8 | 7,135 | 23.8 | 7,135 | |
| KSBS-P6 D19 DC APP | 4.0 | 3,389 | | 4.0 | 3,389 |

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Interference to BLEDT20070601ATA LIC, scenario 1
Proposal causes no interference.

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Interference to DTVBL20476 BL, scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| Desired: | KRMT | D20 | DT | BL | DENVER, CO | DTVBL20476 | |
| Undesireds: | KSBS-CD | D19 | DC | BL | DENVER, CO | DTVBL168750 | 14.6 km |
| | KSBS-P6 | D19 | DC | APP | DENVER, CO | KSBS-P6 | 14.6 |
| | KFNB | D20 | DT | LIC | CASPER, WY | BLCDT20090225AAN | 362.1 |
| | KFCT | D21 | DT | LIC | FORT COLLINS, CO | BLCDT20070920ACM | 120.6 |
| | KGHB-CD | D21 | DC | BL | PUEBLO, ETC., CO | DTVBL24515 | 147.5 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|---|---|---|---|---|---|---|---|---|---|
| 15278.2 | 2,938,705 | 13743.2 | 2,852,615 | 13703.1 | 2,843,965 | 13711.0 | 2,844,192 | -0.06 | -0.01 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|---|---|---|---|
| KSBS-CD D19 DC BL | 19.9 | 8,482 | 19.9 | 8,482 | |
| KSBS-P6 D19 DC APP | 12.0 | 8,255 | | 12.0 | 8,255 |
| KFCT D21 DT LIC | 20.2 | 168 | 20.2 | 168 | 20.2 | 168 |

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Interference to proposal, scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| Desired: | KSBS-P6 | D19 | DC | APP | DENVER, CO | KSBS-P6 | |
| Undesireds: | KPXC-TV | D18 | DT | BL | DENVER, CO | DTVBL68695 | 50.1 km |
| | KWKS | D19 | DT | LIC | COLBY, KS | BLEDT20070601ATA | 336.8 |
| | KRMT | D20 | DT | BL | DENVER, CO | DTVBL20476 | 14.6 |

| Service area | | Terrain-limited | | IX-free | | Percent IX | |
|---|---|---|---|---|---|---|---|
| 4019.3 | 2,415,157 | 3880.0 | 2,399,824 | 3739.7 | 2,389,473 | 3.62 | 0.43 |

| Undesired | Total IX | Unique IX | Prcnt Unique IX | |
|---|---|---|---|---|
| KPXC-TV D18 DT BL | 92.5 | 6,399 | 76.6 | 5,493 | 1.98 | 0.23 |
| KRMT D20 DT BL | 63.7 | 4,858 | 47.8 | 3,952 | 1.23 | 0.16 |