tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KBYU_ANT_MOD_11302018, Model: Longley-Rice
Start: 2018.11.30 12:02:44

Study created: 2018.11.30 12:02:43

Study build station data: LMS TV 2018-11-28

    Proposal: KBYU-TV D17 DT CP PROVO, UT
 File number: KBYU_ANT_MOD_11302018
 Facility ID: 6823
Station data: User record
   Record ID: 463
     Country: U.S.
        Zone: II

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	318.2 km

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D17
   Latitude: 40 39 33.00 N (NAD83)
  Longitude: 112 12 10.00 W
Height AMSL: 2833.8 m
       HAAT: 1257.0 m
   Peak ERP: 298 kW
    Antenna: KAT 759_25063_CH_17 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.80

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	127 kW	1386.7 m	132.4 km
45.0	277	1340.5	140.5
90.0	97.8	1227.7	124.1
135.0	245	957.5	125.6
180.0	169	671.1	111.5
225.0	92.5	1390.0	128.7

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270.0        295     1521.5    145.7
315.0       76.9     1499.7    129.9

Database HAAT does not agree with computed HAAT
Database HAAT: 1257 m   Computed HAAT: 1249 m

ERP exceeds maximum
ERP: 298 kW   ERP maximum: 92.9 kW

Distance to Canadian border: 926.9 km

Distance to Mexican border: 910.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 251.4 degrees   Distance: 884.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 93.2 degrees   Distance: 590.7 km

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 BLANK0000017402 LIC scenario 1

             Call      Chan  Svc Status  City, State
File Number              Distance
Desired:     KISU-TV   D17   DD  LIC     POCATELLO, ID
BLANK0000017402

Undesireds:  KBYU-TV   D17   DT  BL      PROVO, UT
DTVBL6823                318.2 km
             KBYU-TV   D17   DT  CP      PROVO, UT
KBYU_ANT_MOD_11302018    318.2
             K17ED-D   D17   DC  LIC     PAYETTE, ID
BLDTA20141002AAE         346.3

        Service area       Terrain-limited       IX-free, before
IX-free, after    Percent New IX
 30873.6     311,827   27483.6     307,651   27395.8     307,633
27395.8     307,594    -0.00     0.01
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Undesired		Total IX	Unique IX, before	Unique IX, after
KBYU-TV D17 DT BL	87.9	18	87.9	18
KBYU-TV D17 DT CP	87.8	57	87.8	57

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KBYU-TV	D17	DT	CP	PROVO, UT	KBYU_ANT_MOD_11302018	
Undesireds:	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	318.2 km

Service area		Terrain-limited		IX-free		Percent IX	
53104.7	2,389,548	36976.9	2,209,060	36896.2	2,207,884	0.22	0.05

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KISU-TV D17 DD LIC	80.7	1,176	80.7	1,176	0.22	0.05