tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KSL_ANT_MOD_11302018, Model: Longley-Rice
Start: 2018.11.30 12:14:13

Study created: 2018.11.30 12:14:13

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

    Proposal: KSL-TV D23 DT LIC SALT LAKE CITY, UT
 File number: KSL_ANT_MOD_11302018
 Facility ID: 6359
Station data: User record
   Record ID: 465
     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	KPVI-DT	D23	DT	LIC	POCATELLO, ID	BLCDT20060706AEF	251.6 km
Yes	KPNZ	D24	DT	LIC	OGDEN, UT	BLCDT20090617ABF	0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D23
   Latitude: 40 39 33.00 N (NAD83)
  Longitude: 112 12 10.00 W
Height AMSL: 2833.8 m
       HAAT: 1267.0 m
   Peak ERP: 398 kW
    Antenna: KAT 759_25063_CH_23 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.80

39.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	196 kW	1386.7 m	135.9 km
45.0	314	1340.5	140.3
90.0	152	1227.7	127.5
135.0	270	957.5	125.1

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180.0        264      671.1    114.3
225.0        119     1390.0    130.0
270.0        398     1521.5    147.7
315.0        115     1499.7    132.9

Database HAAT does not agree with computed HAAT
Database HAAT: 1267 m   Computed HAAT: 1249 m

ERP exceeds maximum
ERP: 398 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


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 BLCDT20060706AEF LIC scenario 1

             Call      Chan  Svc Status  City, State
File Number              Distance
Desired:     KPVI-DT   D23   DT  LIC     POCATELLO, ID
BLCDT20060706AEF

Undesireds:  KSL-TV    D23   DT  BL      SALT LAKE CITY, UT
DTVBL6359                 251.6 km
             KSL-TV    D23   DT  LIC     SALT LAKE CITY, UT
KSL_ANT_MOD_11302018     251.6

        Service area       Terrain-limited       IX-free, before
IX-free, after    Percent New IX
 26523.0     271,379   21469.4     264,204   21281.1     264,116
21301.1     264,122    -0.09    -0.00

Undesired                          Total IX     Unique IX, before
Unique IX, after
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KSL-TV D23 DT BL 188.2 88 188.2 88
KSL-TV D23 DT LIC 168.2 82
168.2 82

Interference to BLCDT20090617ABF LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPNZ	D24	DT	LIC	OGDEN, UT	BLCDT20090617ABF	
Undesireds:	KSL-TV	D23	DT	BL	SALT LAKE CITY, UT	DTVBL6359	0.0 km
	KSL-TV	D23	DT	LIC	SALT LAKE CITY, UT	KSL_ANT_MOD_11302018	0.0
	KSVN-CD	D25	DC	LIC	OGDEN, UT	BLDTL20100119ADN	0.1

Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
56046.6	2,394,311	38326.8	2,208,707	38266.4	2,208,681	38262.4	2,208,681	0.01	0.00

Undesired	Total IX		Unique IX, before	Unique IX, after
KSL-TV D23 DT BL	32.2	7	20.1	0
KSL-TV D23 DT LIC	32.2	0	24.1	0
KSVN-CD D25 DC LIC	40.2	26	28.1	19
32.2	26			

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSL-TV	D23	DT	LIC	SALT LAKE CITY, UT	KSL_ANT_MOD_11302018	
Undesireds:	KPVI-DT	D23	DT	LIC	POCATELLO, ID	BLCDT20060706AEF	251.6 km

Service area		Terrain-limited		IX-free	Percent IX
55087.1	2,390,742	37862.7	2,206,920	37818.5	2,206,920	0.12	0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX

KPVI-DT D23 DT LIC	44.2	0	44.2	0	0.12	0.00