

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: K18DL-D 3200 watts SCA DA, Model: Longley-Rice
 Start: 2021.03.07 19:26:21

Study created: 2021.03.07 19:26:21

Study build station data: LMS TV 2021-03-05

Proposal: K18DL-D D18 LD APP LOGAN, UT
 File number: K18DL-D 3200 watts SCA DA
 Facility ID: 36605
 Station data: User record
 Record ID: 447
 Country: U.S.

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

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
No	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	224.8 km
No	K17NY-D	D17	LD	LIC	FRUITLAND, UT	BLANK0000095165	173.3
No	K17IP-D	D17	LD	LIC	HUNTSVILLE, ETC., UT	BLDTT20081215AAB	25.6
Yes	K17II-D	D17	LD	LIC	LOGAN, UT	BLDTL20090819AEC	23.9
No	K17DM-D	D17	LD	LIC	MYTON, UT	BLDTT20120113AAZ	163.4
Yes	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	101.6
No	K17DG-D	D17	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20100201AEC	86.3
No	K44KE-D	D17	LD	LIC	SAGE JUNCTION, WY	BLANK0000109331	85.2
No	KRMJ	D18	DT	LIC	GRAND JUNCTION, CO	BLDTT20100430ADO	386.5
No	KCLP-CD	D18	DC	LIC	BOISE, ID	BLANK0000007378	419.2
No	K49IT-D	D18	LD	CP	HAGERMAN, ID	BLANK0000053644	284.4
Yes	K18NC-D	D18	LD	LIC	MALAD, ID	BLANK0000074798	63.0
No	K18KV-D	D18	LD	CP	SHELLY, ID	BNPDTL20100609AHL	204.7
No	K18KA-D	D18	LD	LIC	ELY, NV	BLDTT20120119AEI	349.3
No	K18GT-D	D18	LD	LIC	RYNDON, NV	BLDTT20111219AAZ	314.1
No	K18KY-D	D18	LD	CP	WELLS, NV	BNPDTL20100512AHT	267.9
No	K32HN-D	D18	LD	LIC	CIRCLEVILLE, ETC., UT	BLANK0000072466	372.1
No	K18MY-D	D18	LD	LIC	EAST CARBON COUNTY, UT	BLANK0000093715	214.8
No	K18IT-D	D18	LD	LIC	GREEN RIVER, UT	BLDTT20100107AAJ	322.5
No	K18GX-D	D18	LD	LIC	JUAB, UT	BLDTT20120403ADV	229.1
No	K18MN-D	D18	LD	LIC	KOOSHAREM, UT	BLANK0000084415	341.6
No	K18MW-D	D18	LD	LIC	LEAMINGTON, UT	BLANK0000125314	226.7
No	K18IU-D	D18	LD	LIC	MAYFIELD, UT	BLDTT20100414ABJ	271.8
No	K18IV-D	D18	LD	LIC	MOUNT PLEASANT, UT	BLDTT20121207AAA	228.3
No	K35JL-D	D18	LD	LIC	NEPHI, UT	BLANK0000059919	202.1
No	K18FZ	N18	TX	LIC	ORANGEVILLE, UT	BLTT20030806ABP	268.7
No	K18MX-D	D18	LD	LIC	ORANGEVILLE, ETC., UT	BLANK0000093967	268.7
No	K18ME-D	D18	LD	LIC	RICHFIELD, ETC, UT	BLANK0000064394	324.3
No	K18FU-D	D18	LD	LIC	RURAL BEAVER COUNTY, UT	BLDTT20061115ABB	355.9
No	K18MM-D	D18	LD	LIC	RURAL SEVIER COUNTY, UT	BLANK0000083671	338.0
No	K18KO-D	D18	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20120130ADO	86.3
Yes	KUTB-LD	D18	LD	LIC	SALT LAKE CITY, UT	BLANK0000002482	99.1
No	K29HS-D	D18	LD	LIC	SCIPPIO, HOLDEN, UT	BLANK0000137720	261.6
No	K29HS-D	D18	LD	CP	SCIPPIO, HOLDEN, UT	BLANK0000053598	261.6
No	K18MF-D	D18	LD	LIC	TORREY, ETC., UT	BLANK0000080575	365.0
No	K18JU-D	D18	LD	LIC	UTAHN, UT	BLDTT20110728AWR	163.4
No	K18KC-D	D18	LD	LIC	WENDOVER, UT	BLDTT20120104ACF	197.5
No	K18JJ-D	D18	LD	LIC	CROWHEART, WY	BLANK0000112983	304.1
No	K18JA-D	D18	LD	LIC	PINEDALE, WY	BLDTT20100308ABP	219.3
No	K19IL-D	D19	LD	CP	MALTA, ID	BNPDTL20090825BOJ	116.8
No	K19DQ-D	D19	LD	LIC	MONTPELIER, ID	BLDTT20111115AGV	103.7
Yes	K19EW-D	D19	LD	LIC	PRESTON, ID	BLDTT20111116AIF	65.2
No	K19CY-D	D19	LD	LIC	ROCKLAND, ID	BLDTT20090624AAS	138.8
No	K19MH-D	D19	LD	LIC	FRUITLAND, UT	BLANK0000095177	173.3
No	K19LR-D	D19	LD	LIC	HUNTSVILLE, ETC., UT	BLANK0000074712	25.6

No	K19EY-D	D19	LD	LIC	MYTON, UT	BLDTT20120113ABB	163.4
Yes	KJZZ-TV	D19	DT	LIC	SALT LAKE CITY, UT	BLANK0000113900	101.6
No	K19DU-D	D19	LD	LIC	SUMMIT COUNTY, UT	BLDTT20100201AED	86.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
Mask: Simple
Latitude: 41 33 3.70 N (NAD83)
Longitude: 111 56 10.70 W
Height AMSL: 2176.1 m
HAAT: 0.0 m
Peak ERP: 3.20 kW
Antenna: SCA-PR-450CU (ID 23500) 0.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.20 kW	764.7 m	63.6 km
45.0	0.018	654.9	29.2
90.0	0.007	488.8	21.5
135.0	0.006	319.4	16.6
180.0	0.002	362.4	13.4
225.0	0.004	751.4	22.7
270.0	0.008	750.4	25.9
315.0	0.018	292.9	21.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 548 m

Distance to Canadian border: 827.7 km

Distance to Mexican border: 1012.1 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 246.4 degrees Distance: 941.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 103.3 degrees Distance: 582.8 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%

Interference to BLDTL20090819AEC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K17II-D	D17	LD	LIC	LOGAN, UT	BLDTL20090819AEC	
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	23.9 km
	K16IX-D	D16	LD	LIC	PRESTON, ID	BLDTT20111005AJB	45.9
	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	200.9
	KYTL-LD	D17	LD	CP	TWIN FALLS, ID	BLANK0000071887	224.6
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	122.8
	K35IP-D	D17	LD	LIC	SCIPIO, UT	BLANK0000137745	284.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2439.9 116,538	2066.7 114,468	1951.8 113,420	1913.9 112,970	1.94 0.40

Undesired	Total IX	Unique IX, before	Unique IX, after
K18DL-D D18 LD APP	61.8 1,308		37.9 450
K16IX-D D16 LD LIC	31.0 927	16.0 708	9.0 37
KISU-TV D17 DD LIC	1.0 0	0.0 0	0.0 0
KBYU-TV D17 DT LIC	98.0 340	84.0 121	78.0 99

Interference to BLANK0000064428 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	101.6 km
	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	318.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
53127.5 2,389,498	37078.2 2,198,461	36972.7 2,198,461	36947.7 2,198,461	0.07 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K18DL-D D18 LD APP	54.1 0		25.1 0
KISU-TV D17 DD LIC	105.5 0	105.5 0	76.4 0

Interference to BLANK0000074798 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K18NC-D	D18	LD	LIC	MALAD, ID	BLANK0000074798	
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	63.0 km
	KUTB-LD	D18	LD	LIC	SALT LAKE CITY, UT	BLANK0000002482	155.4
	K29HS-D	D18	LD	LIC	SCIPPIO,HOLDEN, UT	BLANK0000137720	319.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2208.4 6,144	1721.9 5,708	1686.8 5,708	1683.8 5,708	0.18 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K18DL-D D18 LD APP	7.1 0		3.0 0
KUTB-LD D18 LD LIC	35.0 0	35.0 0	31.0 0

Interference to BLANK0000002482 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUTB-LD	D18	LD	LIC	SALT LAKE CITY, UT	BLANK0000002482	
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	99.1 km
	K17IP-D	D17	LD	LIC	HUNTSVILLE, ETC., UT	BLDTT20081215AAB	79.9
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	2.6
	K17DG-D	D17	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20100201AEC	63.9
	K18NC-D	D18	LD	LIC	MALAD, ID	BLANK0000074798	155.4
	K18MY-D	D18	LD	LIC	EAST CARBON COUNTY, UT	BLANK0000093715	145.5
	K35JL-D	D18	LD	LIC	NEPHI, UT	BLANK0000059919	107.8
	K18FU-D	D18	LD	LIC	RURAL BEAVER COUNTY, UT	BLDTT20061115ABB	257.6
	K18KO-D	D18	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20120130ADO	63.9
	K29HS-D	D18	LD	LIC	SCIPPIO,HOLDEN, UT	BLANK0000137720	164.5
	K19LR-D	D19	LD	LIC	HUNTSVILLE, ETC., UT	BLANK0000074712	79.9
	KJZZ-TV	D19	DT	LIC	SALT LAKE CITY, UT	BLANK0000113900	2.6
	K19DU-D	D19	LD	LIC	SUMMIT COUNTY, UT	BLDTT20100201AED	63.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17094.9 2,090,864	12335.6 1,944,362	11751.3 1,914,678	11743.3 1,914,678	0.07 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K18DL-D D18 LD APP	23.0 0		8.0 0
K17IP-D D17 LD LIC	2.0 0	0.0 0	0.0 0
KBYU-TV D17 DT LIC	239.1 28,915	0.0 0	0.0 0
K17DG-D D17 LD LIC	3.0 0	0.0 0	0.0 0
K18NC-D D18 LD LIC	4.0 0	1.0 0	1.0 0

K18MY-D	D18	LD	LIC	1.0	0	0.0	0	0.0	0
K35JL-D	D18	LD	LIC	1.0	0	0.0	0	0.0	0
K18FU-D	D18	LD	LIC	1.0	0	0.0	0	0.0	0
K18KO-D	D18	LD	LIC	127.4	449	96.5	449	96.5	449
K29HS-D	D18	LD	LIC	4.0	0	1.0	0	1.0	0
K19LR-D	D19	LD	LIC	2.0	0	0.0	0	0.0	0
KJZZ-TV	D19	DT	LIC	477.8	29,235	229.7	320	229.7	320
K19DU-D	D19	LD	LIC	8.9	0	0.0	0	0.0	0

Interference to BLANK0000002482 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUTB-LD	D18	LD	LIC	SALT LAKE CITY, UT	BLANK0000002482	
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	99.1 km
	K17IP-D	D17	LD	LIC	HUNTSVILLE, ETC., UT	BLDTT20081215AAB	79.9
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK00000064428	2.6
	K17DG-D	D17	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20100201AEC	63.9
	K18NC-D	D18	LD	LIC	MALAD, ID	BLANK00000074798	155.4
	K18MY-D	D18	LD	LIC	EAST CARBON COUNTY, UT	BLANK00000093715	145.5
	K35JL-D	D18	LD	LIC	NEPHI, UT	BLANK00000059919	107.8
	K18FU-D	D18	LD	LIC	RURAL BEAVER COUNTY, UT	BLDTT20061115ABB	257.6
	K18KO-D	D18	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20120130ADO	63.9
	K29HS-D	D18	LD	CP	SCIPIO, HOLDEN, UT	BLANK00000053598	164.5
	K19LR-D	D19	LD	LIC	HUNTSVILLE, ETC., UT	BLANK00000074712	79.9
	KJZZ-TV	D19	DT	LIC	SALT LAKE CITY, UT	BLANK00000113900	2.6
	K19DU-D	D19	LD	LIC	SUMMIT COUNTY, UT	BLDTT20100201AED	63.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17094.9	2,090,864	12335.6	1,944,362	11751.3
		1,914,678	11743.3	1,914,678
				0.07
				0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K18DL-D D18 LD APP	23.0	0	8.0
K17IP-D D17 LD LIC	2.0	0	0.0
KBYU-TV D17 DT LIC	239.1	28,915	0.0
K17DG-D D17 LD LIC	3.0	0	0.0
K18NC-D D18 LD LIC	4.0	0	1.0
K18MY-D D18 LD LIC	1.0	0	0.0
K35JL-D D18 LD LIC	1.0	0	0.0
K18FU-D D18 LD LIC	1.0	0	0.0
K18KO-D D18 LD LIC	127.4	449	96.5
K29HS-D D18 LD CP	4.0	0	1.0
K19LR-D D19 LD LIC	2.0	0	0.0
KJZZ-TV D19 DT LIC	477.8	29,235	229.7
K19DU-D D19 LD LIC	8.9	0	0.0

Interference to BLDTT20111116AIF LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K19EW-D	D19	LD	LIC	PRESTON, ID	BLDTT20111116AIF	
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	65.2 km
	K19IL-D	D19	LD	CP	MALTA, ID	BNPDTL20090825BOJ	104.3
	KJZZ-TV	D19	DT	LIC	SALT LAKE CITY, UT	BLANK00000113900	166.8
	K41IG-D	D19	LD	CP	SCIPIO, UT	BLANK00000053584	326.3
	K45GL-D	D20	LD	LIC	LOGAN, UT	BLANK00000072933	65.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4145.4	87,179	3025.6	40,763	2943.4
		32,247	2940.4	32,247
				0.10
				0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K18DL-D D18 LD APP	39.2	4,560	3.0
K19IL-D D19 LD CP	1.0	0	1.0
KJZZ-TV D19 DT LIC	54.2	11	42.1
K45GL-D D20 LD LIC	39.2	8,505	27.0

Interference to BLANK00000113900 LIC scenario 1

Desired:	Call KJZZ-TV	Chan D19	Svc DT	Status LIC	City, State SALT LAKE CITY, UT	File Number BLANK0000113900	Distance
Undesireds:	K18DL-D	D18	LD	APP	LOGAN, UT	K18DL-D 3200 watts SCA	101.6 km
	KUES	D19	DT	LIC	RICHFIELD, UT	BLEDT20030429AAT	225.4
	KTMW	D20	DT	LIC	SALT LAKE CITY, UT	BLCDT20140529AJC	0.6
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	53136.1	2,388,987		36908.3	2,197,922	36856.1 2,197,910	36809.0 2,197,910 0.13 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K18DL-D D18 LD APP		47.1		0		47.1	0
KUES D19 DT LIC		18.1		0	18.1 0	18.1	0
KTMW D20 DT LIC		34.0		12	34.0 12	34.0	12

Interference to proposal scenario 1

Desired:	Call K18DL-D	Chan D18	Svc LD	Status APP	City, State LOGAN, UT	File Number K18DL-D 3200 watts SCA	Distance
Undesireds:	K17II-D	D17	LD	LIC	LOGAN, UT	BLDTL20090819AEC	23.9 km
	K18NC-D	D18	LD	LIC	MALAD, ID	BLANK0000074798	63.0
	K18KO-D	D18	LD	LIC	RURAL SUMMIT COUNTY, UT	BLDTT20120130ADO	86.3
	KUTB-LD	D18	LD	LIC	SALT LAKE CITY, UT	BLANK0000002482	99.1
	K29HS-D	D18	LD	LIC	SCIPIO,HOLDEN, UT	BLANK0000137720	261.6
	K19EW-D	D19	LD	LIC	PRESTON, ID	BLDTT20111116AIF	65.2
	Service area			Terrain-limited	IX-free	Percent IX	
	2662.2	150,997		2489.2	149,809	2328.9 148,991	6.44 0.55
Undesired				Total IX	Unique IX	Prcnt Unique IX	
K17II-D D17 LD LIC		25.0		105	12.0 51	0.48	0.03
K18NC-D D18 LD LIC		2.0		6	0.0 0	0.00	0.00
K18KO-D D18 LD LIC		8.0		0	7.0 0	0.28	0.00
KUTB-LD D18 LD LIC		116.4		336	103.4 291	4.15	0.19
K19EW-D D19 LD LIC		29.9		460	18.0 414	0.72	0.28