

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: KBTU-DISP15 #508, Model: Longley-Rice

Start: 2018.03.21 19:52:39

Study created: 2018.03.21 19:52:39

Study build station data: LMS TV 2018-03-19

Proposal: KBTU-LD D15 LD LIC SALT LAKE CITY, UT
 File number: KBTU-DISP15
 Facility ID: 125589
 Station data: User record
 Record ID: 517
 Country: U.S.

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	K140A-D	D14	LD	LIC	PRESTON, ID	BLDTT20111005AJC	164.3 km
No	K14LW-D	D14	LD	LIC	MYTON, UT	BLDTT20100120ABS	124.7
Yes	KULX-CD	D14	DC	LIC	OGDEN, UT	BLDTL20110323ABX	2.5
No	K14PF-D	D14	LD	LIC	PEOA, OAKLEY, UT	BLDTT20120130ADQ	70.9
No	K14PA-D	D14	LD	LIC	RURAL JUAB COUNTY, UT	BLDTT20120524AHY	136.1
No	K21JL-D	D14	LD	APP	WANSHP, UT	BLANK0000041608	69.5
No	KFQX	D15	DT	LIC	GRAND JUNCTION, CO	BLCDD20061020ACO	345.3
No	KKJB	D15	DT	CP	BOISE, ID	BLANK0000028176	469.4
No	K15GO-D	D15	LD	LIC	GEORGETOWN, ID	BLDTT20091005ABK	214.6
Yes	K15IB-D	D15	LD	LIC	MALAD, ID	BLDTT20110419ABH	155.4
Yes	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	243.9
Yes	KPIF	D15	DT	APP	POCATELLO, ID	BLANK0000035740	243.9
No	KSAW-LD	D15	LD	LIC	TWIN FALLS, ID	BLDTL20140325AEJ	292.3
No	K15GS	N15	TX	LIC	DUCKWATER, ETC., NV	BLTT20040929AQF	350.7
No	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	294.9
No	K15EE-D	D15	LD	CP	ELKO, NV	BPDTT20120514AEU	294.7
No	K15HZ-D	D15	LD	LIC	CAINEVILLE, UT	BLDTT20110330AYE	281.4
No	K21JM-D	D15	LD	APP	COALVILLE, UT	BLANK0000041621	72.9
No	K15EM-D	D15	LD	LIC	ESCALANTE, UT	BLDTT20100429ACU	326.1
No	K15GI-D	D15	LD	LIC	FREMONT, UT	BLDTT20090505ABL	254.8
No	K15HH-D	D15	LD	LIC	GREEN RIVER, UT	BLDTT20080123ACJ	256.3
No	K15HE-D	D15	LD	LIC	HATCH, UT	BLDTT20081223AAA	334.4
Yes	KUTO-LD	D15	LD	LIC	LOGAN, UT	BLDTL20130528AIC	135.0
No	K15CD-D	D15	LD	LIC	MAYFIELD, UT	BLDTT20090811AAA	178.6
No	K15FQ-D	D15	LD	LIC	MILFORD, ETC., UT	BLDTT20070228ABG	257.6
Yes	K15HG-D	D15	LD	LIC	MOUNT PLEASANT, UT	BLDTT20080722ABC	144.7
No	K15GQ	N15	TX	LIC	ORANGEVILLE, UT	BLTT20040902AAS	187.0
Yes	K15FL-D	D15	LD	LIC	PARK CITY, UT	BLDTT20090414AFN	57.4
No	K15FP	N15	TX	LIC	PEOA, OAKLEY, UT	BLTT20030618ABD	71.0
No	K15FF-D	D15	LD	LIC	SALINA & REDMOND, UT	BLDTT20080818AAP	202.6
No	K15DI	N15	TX	LIC	VERNAL, UT	BLTT19940328JF	262.0
No	K15GZ-D	D15	LD	LIC	WENDOVER, UT	BLDTT20110928ADG	154.6
No	K16IX-D	D16	LD	LIC	PRESTON, ID	BLDTT20111005AJB	164.3
No	K16HV-D	D16	LD	LIC	MAYFIELD, UT	BLDTT20090831AAK	179.4
No	K16IB-D	D16	LD	LIC	MOUNT PLEASANT, UT	BLDTT20100506ADJ	144.7
No	KULU-LD	D16	LD	LIC	PARK CITY, UT	BLDTL20120618AAV	63.8
No	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	132.4
No	K16HW-D	D16	LD	LIC	EVANSTON, ETC., WY	BLDTT20090608AAV	132.4
No	K22DE	N22	TX	LIC	TOOELE, UT	BLTT19910607IE	2.6
No	K23HS	N23z	TX	LIC	WOODLAND & KAMAS, UT	BLTT20080402ACV	82.1

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: Full Service
 Latitude: 40 40 55.70 N (NAD83)
 Longitude: 112 12 14.80 W
 Height AMSL: 2656.1 m
 HAAT: 0.0 m
 Peak ERP: 5.00 kW
 Antenna: DIE-TUM-C2 90.0 deg
 Elev Pattn: Generic
 Elec Tilt: 0.75

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.21 kW	1355.1 m	66.2 km
45.0	4.69	1302.5	76.6
90.0	3.88	1140.2	72.1
135.0	5.00	845.1	68.5
180.0	1.14	512.7	52.2
225.0	0.042	1248.8	42.3
270.0	0.050	1366.3	44.6
315.0	0.019	1342.0	37.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 1139 m

Distance to Canadian border: 924.4 km

Distance to Mexican border: 913.0 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 251.3 degrees Distance: 885.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 93.5 degrees Distance: 591.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 0.50 km

Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

Interference to BLDTL20110323ABX LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KULX-CD	D14	DC	LIC	OGDEN, UT	BLDTL20110323ABX	
Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	2.5 km
	KUED	D15	DT	BL	SALT LAKE CITY, UT	DTVBL69396	0.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17022.6	2,115,715	13284.4	2,005,114	13097.9	1,998,066	13096.4 1,998,066	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KBTU-LD D15 LD LIC				1.5 0	1.5 0		
KUED D15 DT BL				186.5 7,048	186.5 7,048	186.5 7,048	

Interference to BLDTT20110419ABH LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K15IB-D	D15	LD	LIC	MALAD, ID	BLDTT20110419ABH	

Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	155.4 km
	K15HR-D	D15	LD	LIC	MACKAY, ID	BLANK0000012101	237.3
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK000001051	90.7
	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	322.9
	KUTO-LD	D15	LD	LIC	LOGAN, UT	BLDTL20130528AIC	23.5
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	1910.4	4,561		1706.1		1703.1	0.17 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KBTU-LD D15 LD LIC	3.0		0		3.0	
KUTO-LD D15 LD LIC	22.5		0		22.5	

Interference to BLANK000001051 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK000001051	
Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	243.9 km
	KKJB	D15	DT	CP	BOISE, ID	BLANK0000028176	308.4
	KUED	D15	DT	BL	SALT LAKE CITY, UT	DTVBL69396	246.5
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	21259.6	256,419		17913.7		17913.7	0.00 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KBTU-LD D15 LD LIC	0.7		0		0.0	
KUED D15 DT BL	33.8		31		33.1	

Interference to BLANK0000035740 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPIF	D15	DT	APP	POCATELLO, ID	BLANK0000035740	
Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	243.9 km
	KKJB	D15	DT	CP	BOISE, ID	BLANK0000028176	308.4
	KUED	D15	DT	BL	SALT LAKE CITY, UT	DTVBL69396	246.5
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	25278.6	264,871		21300.2		21300.2	0.00 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KBTU-LD D15 LD LIC	1.7		0		0.0	
KUED D15 DT BL	51.9		71		50.2	

Interference to BLDTL20130528AIC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUTO-LD	D15	LD	LIC	LOGAN, UT	BLDTL20130528AIC	
Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	135.0 km
	K140A-D	D14	LD	LIC	PRESTON, ID	BLDTT20111005AJC	35.9
	KULX-CD	D14	DC	LIC	OGDEN, UT	BLDTL20110323ABX	137.5
	K15HR-D	D15	LD	LIC	MACKAY, ID	BLANK0000012101	260.7
	K15IB-D	D15	LD	LIC	MALAD, ID	BLDTT20110419ABH	23.5
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK000001051	113.9
	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	324.9
	K16IX-D	D16	LD	LIC	PRESTON, ID	BLDTT20111005AJB	35.9
	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	115.1
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	4845.1	168,715		3926.1		3819.0	2.73 0.67

Undesired	Total IX		Unique IX, before		Unique IX, after	
KBTU-LD D15 LD LIC	107.7		902		107.2	
K140A-D D14 LD LIC	50.0		2,369		0.0	
KULX-CD D14 DC LIC	0.3		0		0.0	

K15IB-D D15 LD LIC	39.7	0	39.7	0	39.7	0
K16IX-D D16 LD LIC	50.0	2,369	0.0	0	0.0	0

Interference to BLDTT20080722ABC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K15HG-D	D15	LD	LIC	MOUNT PLEASANT, UT	BLDTT20080722ABC	
Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	144.7 km
	K15GU-D	D15	LD	LIC	DOVE CREEK, ETC, CO	BLDTT20120615AAZ	292.1
	K16IB-D	D16	LD	LIC	MOUNT PLEASANT, UT	BLDTT20100506ADJ	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	
352.8		7,494		322.9		7,393	
						Percent New IX	
						0.23 0.00	
Undesired		Total IX		Unique IX, before		Unique IX, after	
KBTU-LD D15 LD LIC		1.2		0		0.7	
K16IB-D D16 LD LIC		11.6		81		11.1	

Interference to BLDTT20090414AFN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K15FL-D	D15	LD	LIC	PARK CITY, UT	BLDTT20090414AFN	
Undesireds:	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	57.4 km
	KULX-CD	D14	DC	LIC	OGDEN, UT	BLDTL20110323ABX	57.3
	K14PF-D	D14	LD	LIC	PEOA, OAKLEY, UT	BLDTT20120130ADQ	14.1
	K21JL-D	D14	LD	APP	WANSHIP, UT	BLANK0000041608	17.7
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	256.1
	K21JM-D	D15	LD	APP	COALVILLE, UT	BLANK0000041621	28.8
	K15FP	N15	TX	LIC	PEOA, OAKLEY, UT	BLTT20030618ABD	14.2
	KULU-LD	D16	LD	LIC	PARK CITY, UT	BLDTL20120618AAV	19.3
	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	90.9
Service area		Terrain-limited		IX-free, before		IX-free, after	
2702.2		46,834		2140.1		31,234	
						Percent New IX	
						1.18 0.00	
Undesired		Total IX		Unique IX, before		Unique IX, after	
KBTU-LD D15 LD LIC		28.6		0		25.2	
KULX-CD D14 DC LIC		1.2		0		0.0	
K14PF-D D14 LD LIC		8.7		84		0.5	
K21JL-D D14 LD APP		0.5		0		0.2	
K21JM-D D15 LD APP		3.4		14		2.9	
K15FP N15 TX LIC		38.2		151		24.1	
KULU-LD D16 LD LIC		10.0		142		2.7	

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KBTU-LD	D15	LD	LIC	SALT LAKE CITY, UT	KBTU-DISP15	
Undesireds:	KULX-CD	D14	DC	LIC	OGDEN, UT	BLDTL20110323ABX	2.5 km
	K21JL-D	D14	LD	APP	WANSHIP, UT	BLANK0000041608	69.5
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	243.9
	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	294.9
	K21JM-D	D15	LD	APP	COALVILLE, UT	BLANK0000041621	72.9
	KUTO-LD	D15	LD	LIC	LOGAN, UT	BLDTL20130528AIC	135.0
	K15FL-D	D15	LD	LIC	PARK CITY, UT	BLDTT20090414AFN	57.4
	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	132.4
Service area		Terrain-limited		IX-free		Percent IX	
10493.3		2,010,899		7307.5		15.98 1.48	
Undesired		Total IX		Unique IX		Prct Unique IX	
KULX-CD D14 DC LIC		1180.1		1058.7		12.17 1.36	
K21JL-D D14 LD APP		0.2		0		0.00 0.00	
K21JM-D D15 LD APP		0.2		0		0.00 0.00	

4/6/2018				SaltLakeCity - Dropbox					
KUTO-LD	D15	LD	LIC	320.0	2,267	198.9	2,228	2.29	0.12
K15FL-D	D15	LD	LIC	11.4	5	11.2	5	0.13	0.00