

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: K10RP-D 10 AP DRV-23HC, Model: Longley-Rice
 Start: 2021.05.19 17:55:03

Study created: 2021.05.19 17:55:03

Study build station data: LMS TV 2021-05-19

Proposal: K49AS-D D10 LD APP SANTA CLARA, UT
 File number: K10RP-D 10 AP DRV-23HC
 Facility ID: 70994
 Station data: User record
 Record ID: 20
 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	K07SC	N7	TX	LIC	HILDALE, ETC. (AZ), UT	BLTTTV19821118IF	79.9 km
No	K07PX	N7	TX	LIC	ROCKVILLE, UT	BLTTTV19800711IA	75.5
No	K09FL-D	D9	LD	LIC	CALIENTE, NV	BLDTV20130123ADW	75.8
Yes	KVVU-TV	D9	DT	LIC	HENDERSON, NV	BLANK0000142740	162.3
No	K09FJ-D	D9	LD	LIC	PIOCHE, NV	BLDTV20130123ADZ	98.9
No	K09FK-D	D9	LD	LIC	URSINE, NV	BLDTV20130123AEF	96.9
No	K09CJ-D	D9	LD	LIC	CEDAR CITY, UT	BLDTV20101008AAO	92.4
No	K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	81.0
No	K09SU	D9	LD	APP	HILDALE, ETC. (AZ), UT	BLANK0000146008	81.0
No	K09SU	N9	TX	LIC	HILDALE, ETC. (AZ), UT	BLTTTV19821118IE	79.9
No	K50GD-D	D9	LD	LIC	LONG VALLEY JUNCTION, UT	BLANK0000059942	127.5
No	K09CD	N9	TX	LIC	ROCKVILLE, UT	BLTTTV19800303IJ	75.5
Yes	KMYU	D9	DT	CP	ST. GEORGE, UT	BLANK0000035745	29.3
Yes	KMYU	D9	DT	LIC	ST. GEORGE, UT	BLCDT20021031ABG	29.3
No	K09KP	N9	TX	LIC	TOQUERVILLE, UT	BLTTTV3949	55.8
Yes	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	230.5
No	KSAZ-TV	D10	DT	LIC	PHOENIX, AZ	BLANK0000106827	455.7
No	KERO-TV	D10	DT	LIC	BAKERSFIELD, CA	BLCDT20100929AEF	462.4
No	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	360.4
No	K10IX-D	N10	TX	LIC	NEWBERRY SPRINGS, CA	BLTTTV5095	360.3
No	K10BU-D	D10	LD	LIC	LUND & PRESTON, NV	BLDTV20100111AAO	252.4
No	K10LQ-D	D10	LD	LIC	MANHATTAN, NV	BLDTV20110531AQO	318.9
Yes	K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	92.4
No	K10QR-D	D10	LD	LIC	LEAMINGTON, UT	BLDTV20110201AFK	297.5
Yes	K46EO-D	D10	LD	LIC	LONG VALLEY JUNCTION, UT	BLANK0000059944	127.5
No	K10RI-D	D10	LD	LIC	MARYSVALE, UT	BLANK0000072151	210.9
No	K47BD-D	D10	LD	LIC	RURAL JUAB COUNTY, UT	BLANK0000063301	315.5
No	K15FF-D	D10	LD	LIC	SALINA & REDMOND, UT	BLANK0000063750	259.8
No	K11CN-D	D11	LD	LIC	CALIENTE, NV	BLDTV20130123ADV	75.8
No	KLVX	D11	DT	LIC	LAS VEGAS, NV	BMLEDT20120124ACO	162.3
No	K11IV-D	D11	LD	LIC	PIOCHE, NV	BLDTV20130123ADY	98.9
No	K11OW-D	D11	LD	LIC	URSINE, NV	BLDTV20130123AEG	96.9
No	K11CQ-D	D11	LD	LIC	CEDAR CITY, UT	BLANK0000036052	92.4
No	K11QQ-D	D11	LD	LIC	HILDALE, ETC. (AZ), UT	BLDTV20090406AFA	79.9
No	K41LC-D	D11	LD	LIC	LONG VALLEY JUNCTION, UT	BLANK0000059936	127.5
No	K1100	D11+	LD	CP	PINE VALLEY, ETC., UT	BLANK0000053182	43.8
No	K1100	D11+	LD	APP	PINE VALLEY, ETC., UT	BLANK0000146006	43.8
No	K1100	N11+	TX	LIC	PINE VALLEY, ETC., UT	BLTTTV19790917IB	44.6
No	K11VY-D	D11	LD	LIC	TOQUERVILLE, UT	BLDVL20100112AED	55.8
No	K110P	N11	TX	LIC	VIRGIN, UT	BLTTTV19790910IH	59.9
No	K13QK	N13	TX	LIC	VIRGIN, UT	BLTTTV19800303IL	59.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D10
Mask: Full Service
Latitude: 37 9 18.70 N (NAD83)
Longitude: 113 52 59.50 W
Height AMSL: 2373.0 m
HAAT: 0.0 m
Peak ERP: 1.00 kW
Antenna: SCA DRV-23HC 140 degs 0.0 deg
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.252 kW	1012.1 m	67.5 km
45.0	0.986	1102.6	80.8
90.0	0.897	1198.1	80.8
135.0	0.829	812.5	74.7
180.0	0.986	1077.6	80.5
225.0	0.834	1205.4	80.2
270.0	0.294	1284.2	71.4
315.0	0.003	1181.3	32.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 1109 m

Distance to Canadian border: 1316.4 km

Distance to Mexican border: 499.0 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 277.6 degrees Distance: 697.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 63.6 degrees Distance: 817.9 km

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 BLANK0000142740 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVVU-TV	D9	DT	LIC	HENDERSON, NV	BLANK0000142740	
Undesireds:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	162.3 km
	KEYC-TV	D9	DT	LIC	EL CENTRO, CA	BLCDT20090723AAO	328.5
	KCAL-TV	D9	DT	LIC	LOS ANGELES, CA	BLCDT20090612AIY	341.4
	KMYU	D9	DT	CP	ST. GEORGE, UT	BLANK0000035745	173.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
46161.5	2,051,869	32486.3	1,940,341	32386.6	1,940,188	32378.6 1,940,188	0.02 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K49AS-D D10 LD APP				8.0 0	8.0 0		
KEYC-TV D9 DT LIC				98.7 153	98.7 153		
KCAL-TV D9 DT LIC				1.0 0	1.0 0		

Interference to BLANK0000142740 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVVU-TV	D9	DT	LIC	HENDERSON, NV	BLANK0000142740	

Undesireds:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	162.3 km
	KECY-TV	D9	DT	LIC	EL CENTRO, CA	BLCDT20090723AAO	328.5
	KCAL-TV	D9	DT	LIC	LOS ANGELES, CA	BLCDT20090612AIY	341.4
	KMYU	D9	DT	LIC	ST. GEORGE, UT	BLCDT20021031ABG	173.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
46161.5	2,051,869	32486.3	1,940,341	32375.6	1,940,188	32370.6	1,940,188	0.02 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K49AS-D D10 LD APP	8.0	0				5.0	0
KECY-TV D9 DT LIC	98.7	153		98.7	153	98.7	153
KCAL-TV D9 DT LIC	1.0	0		1.0	0	1.0	0
KMYU D9 DT LIC	11.0	0		11.0	0	8.0	0

Interference to BLANK0000035745 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMYU	D9	DT	CP	ST. GEORGE, UT	BLANK0000035745	
Undesireds:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	29.3 km
	KVVU-TV	D9	DT	LIC	HENDERSON, NV	BLANK0000142740	173.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
13880.3	184,629	10672.5	156,677	9686.9	154,611	9611.8	154,611	0.78 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K49AS-D D10 LD APP	206.4	0				75.1	0
KVVU-TV D9 DT LIC	985.6	2,066		985.6	2,066	854.2	2,066

Interference to BLCDT20021031ABG LIC scenario 1

**IX: 1.03% interference caused

SEE INTERFERENCE AGREEMENT

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMYU	D9	DT	LIC	ST. GEORGE, UT	BLCDT20021031ABG	
Undesireds:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	29.3 km
	KVVU-TV	D9	DT	LIC	HENDERSON, NV	BLANK0000142740	173.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
5967.6	133,443	4458.5	130,099	4164.1	129,942	4079.2	128,609	2.04 1.03

Undesired		Total IX		Unique IX, before		Unique IX, after	
K49AS-D D10 LD APP	125.0	1,423				85.0	1,333
KVVU-TV D9 DT LIC	294.4	157		294.4	157	254.3	67

Interference to BLANK0000071712 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	
Undesireds:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	230.5 km
	KVVU-TV	D9	DT	LIC	HENDERSON, NV	BLANK0000142740	143.3
	KSAZ-TV	D10	DT	LIC	PHOENIX, AZ	BLANK0000106827	257.6
	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	254.4
	KLVX	D11	DT	LIC	LAS VEGAS, NV	BML EDT20120124ACO	143.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23187.2	201,507	18118.7	85,020	18082.7	85,020	18069.7	84,979	0.07 0.05

Undesired		Total IX		Unique IX, before		Unique IX, after	
K49AS-D D10 LD APP	13.0	41				13.0	41
KVVU-TV D9 DT LIC	9.9	0		0.0	0	0.0	0
KSAZ-TV D10 DT LIC	23.1	0		23.1	0	23.1	0
KLVX D11 DT LIC	12.9	0		3.0	0	3.0	0

Interference to BLANK0000105375 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	
Undesireds: K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	92.4 km
K09CJ-D	D9	LD	LIC	CEDAR CITY, UT	BLDTV20101008AAO	0.1
K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	82.9
KMYU	D9	DT	CP	ST. GEORGE, UT	BLANK0000035745	79.9
K11CQ-D	D11	LD	LIC	CEDAR CITY, UT	BLANK0000036052	0.0
K1100	D11+	LD	CP	PINE VALLEY, ETC., UT	BLANK0000053182	57.5
Service area	Terrain-limited			IX-free, before	IX-free, after	Percent New IX
4197.4 42,170	3434.3 40,420			3335.9 40,355	3272.2 40,355	1.91 0.00
Undesired	Total IX			Unique IX, before	Unique IX, after	
K49AS-D D10 LD APP	69.8 0			63.7 0		
K09CJ-D D9 LD LIC	97.4 65			71.0 2	64.9 2	
K11CQ-D D11 LD LIC	27.4 63			1.0 0	1.0 0	

Interference to proposal scenario 1
6.47% interference received

Service area				Terrain-limited		IX-free		Percent IX	
16658.1		159,131		11789.4	151,827	11584.8	142,004	1.74	6.47
Undesired				Total IX		Unique IX		Prcnt Unique IX	
KMYU D9 DT CP			126.0		9,821	125.0	9,821	1.06	6.47
K10RM-D D10 LD LIC			38.1		0	38.1	0	0.32	0.00
K10PN-D D10 LD LIC			34.5		2	34.5	2	0.29	0.00
K11QQ-D D11 LD LIC			3.0		0	3.0	0	0.03	0.00
K1100 D11+ LD CP			3.0		0	3.0	0	0.03	0.00
K11VY-D D11 LD LIC			1.0		0	0.0	0	0.00	0.00

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	

Undesireds:	K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	81.0 km
	KMYU	D9	DT	CP	ST. GEORGE, UT	BLANK0000035745	29.3
	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	230.5
	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	360.4
	K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	92.4
	K11QQ-D	D11	LD	LIC	HILDALE, ETC. (AZ), UT	BLDTV20090406AFA	79.9
	K11OO	D11+	LD	APP	PINE VALLEY, ETC., UT	BLANK0000146006	43.8
	K11VY-D	D11	LD	LIC	TOQUERVILLE, UT	BLDVL20100112AED	55.8

	Service area		Terrain-limited		IX-free		Percent IX
16658.1	159,131	11789.4	151,827	11584.8	142,004	1.74	6.47

Undesired		Total IX		Unique IX		Prcnt Unique IX
KMYU D9 DT CP	126.0	9,821	125.0	9,821	1.06	6.47
K10RM-D D10 LD LIC	38.1	0	38.1	0	0.32	0.00
K10PN-D D10 LD LIC	34.5	2	34.5	2	0.29	0.00
K11QQ-D D11 LD LIC	3.0	0	3.0	0	0.03	0.00
K11OO D11+ LD APP	3.0	0	3.0	0	0.03	0.00
K11VY-D D11 LD LIC	1.0	0	0.0	0	0.00	0.00

Interference to proposal scenario 3
6.47% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	
Undesireds:	K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	81.0 km
	KMYU	D9	DT	CP	ST. GEORGE, UT	BLANK0000035745	29.3
	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	230.5
	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	360.4
	K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	92.4
	K11QQ-D	D11	LD	LIC	HILDALE, ETC. (AZ), UT	BLDTV20090406AFA	79.9
	K11VY-D	D11	LD	LIC	TOQUERVILLE, UT	BLDVL20100112AED	55.8

	Service area		Terrain-limited		IX-free		Percent IX
16658.1	159,131	11789.4	151,827	11587.8	142,004	1.71	6.47

Undesired		Total IX		Unique IX		Prcnt Unique IX
KMYU D9 DT CP	126.0	9,821	125.0	9,821	1.06	6.47
K10RM-D D10 LD LIC	38.1	0	38.1	0	0.32	0.00
K10PN-D D10 LD LIC	34.5	2	34.5	2	0.29	0.00
K11QQ-D D11 LD LIC	3.0	0	3.0	0	0.03	0.00
K11VY-D D11 LD LIC	1.0	0	0.0	0	0.00	0.00

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	
Undesireds:	K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	81.0 km
	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	230.5
	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	360.4
	K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	92.4
	K11QQ-D	D11	LD	LIC	HILDALE, ETC. (AZ), UT	BLDTV20090406AFA	79.9
	K11OO	D11+	LD	CP	PINE VALLEY, ETC., UT	BLANK0000053182	43.8
	K11VY-D	D11	LD	LIC	TOQUERVILLE, UT	BLDVL20100112AED	55.8

	Service area		Terrain-limited		IX-free		Percent IX
16658.1	159,131	11789.4	151,827	11709.7	151,825	0.68	0.00

Undesired		Total IX		Unique IX		Prcnt Unique IX
K10RM-D D10 LD LIC	38.1	0	38.1	0	0.32	0.00
K10PN-D D10 LD LIC	34.5	2	34.5	2	0.29	0.00
K11QQ-D D11 LD LIC	3.0	0	3.0	0	0.03	0.00
K11OO D11+ LD CP	3.0	0	3.0	0	0.03	0.00
K11VY-D D11 LD LIC	1.0	0	1.0	0	0.01	0.00

Interference to proposal scenario 5

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	
Undesireds:	K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	81.0 km
	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	230.5
	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	360.4
	K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	92.4
	K11QQ-D	D11	LD	LIC	HILDALE, ETC. (AZ), UT	BLDTV20090406AFA	79.9
	K11OO	D11+	LD	APP	PINE VALLEY, ETC., UT	BLANK0000146006	43.8
	K11VY-D	D11	LD	LIC	TOQUERVILLE, UT	BLDVL20100112AED	55.8
Service area		Terrain-limited		IX-free		Percent IX	
16658.1	159,131	11789.4	151,827	11709.7	151,825	0.68	0.00
Undesired		Total IX		Unique IX		Prcnt Unique IX	
K10RM-D	D10 LD LIC	38.1	0	38.1	0	0.32	0.00
K10PN-D	D10 LD LIC	34.5	2	34.5	2	0.29	0.00
K11QQ-D	D11 LD LIC	3.0	0	3.0	0	0.03	0.00
K11OO	D11+ LD APP	3.0	0	3.0	0	0.03	0.00
K11VY-D	D11 LD LIC	1.0	0	1.0	0	0.01	0.00

Interference to proposal scenario 6

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K49AS-D	D10	LD	APP	SANTA CLARA, UT	K10RP-D 10 AP DRV-23HC	
Undesireds:	K09SU	D9	LD	CP	HILDALE, ETC. (AZ), UT	BLANK0000054149	81.0 km
	K10RM-D	D10	LD	LIC	KINGMAN, AZ	BLANK0000071712	230.5
	K10IX-D	D10	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000004557	360.4
	K10PN-D	D10	LD	LIC	CEDAR CITY, ETC., UT	BLANK0000105375	92.4
	K11QQ-D	D11	LD	LIC	HILDALE, ETC. (AZ), UT	BLDTV20090406AFA	79.9
	K11VY-D	D11	LD	LIC	TOQUERVILLE, UT	BLDVL20100112AED	55.8
Service area		Terrain-limited		IX-free		Percent IX	
16658.1	159,131	11789.4	151,827	11712.8	151,825	0.65	0.00
Undesired		Total IX		Unique IX		Prcnt Unique IX	
K10RM-D	D10 LD LIC	38.1	0	38.1	0	0.32	0.00
K10PN-D	D10 LD LIC	34.5	2	34.5	2	0.29	0.00
K11QQ-D	D11 LD LIC	3.0	0	3.0	0	0.03	0.00
K11VY-D	D11 LD LIC	1.0	0	1.0	0	0.01	0.00