

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K15KO-D Displaced to 19 #943, Model: Longley-Rice
Start: 2024.03.11 15:06:05

Study created: 2024.03.11 15:06:05

Study build station data: LMS TV 2024-03-11

Proposal: K15KO-D D19 LD LIC REDDING, CA
File number: K15KO-D Displaced to 19
Facility ID: 129800
Station data: User record
Record ID: 303
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
Yes	KHSL-TV	D18	LD	LIC	CHICO, CA	BLANK0000063272	0.3 km
No	K18ND-D	D18	LD	LIC	CHICO AND PARADISE, CA	BLANK0000068720	103.2
No	K18LJ-D	D18	LD	LIC	DUNSMUR, ETC, CA	BLANK0000011185	66.1
Yes	KXCH-LD	D19	LD	LIC	CHICO, CA	BLANK0000214820	119.4
No	K39EO-D	D19	LD	CP	CRESCENT CITY, CA	BLANK0000195102	188.7
No	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	408.2
No	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	234.1
No	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	355.1
No	K19GA-D	D19	LD	LIC	SUSANVILLE, ETC, CA	BLDTT20110822AAE	184.1
No	DK51AQ-D	D19	LD	APP	UKIAH, CA	BLANK0000081270	177.7
No	K19GL-D	D19	LD	LIC	YREKA, CA	BLDTT20080826AAQ	106.6
No	K19MK-D	D19	LD	LIC	LAKE TAHOE, NV	BLANK0000090529	264.6
No	K19MJ-D	D19	LD	LIC	YERINGTON, NV	BLANK0000090532	335.5
No	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	214.1
No	K19HS-D	D19	LD	CP	GRANTS PASS, OR	BPDTT20111107ALN	205.4
No	K19BK-D	D19	LD	LIC	LAKEVIEW, OR	BLDTT20101112ARX	247.5
No	KFBI-LD	D19	LD	LIC	MEDFORD, OR	BLANK0000055267	183.7
No	K19HH-D	D19	LD	LIC	MIDLAND, ETC., OR	BLDTT20131101AGB	176.7
No	KPIC	D19	DT	LIC	ROSEBURG, OR	BLCDT20120423ABP	294.4
No	K20DE-D	D20	LD	LIC	ALTURAS/LIKELY, CA	BLDTT20080826AAS	173.6
No	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	57.1
No	K20CN-D	D20z	LD	LIC	FORTUNA, RIO DELL, CA	BLANK0000152359	134.6
No	DK47AL	D20	LD	APP	UKIAH, CA	BLANK0000081267	177.7
No	KNSN-TV	D20	DT	LIC	RENO, NV	BLANK0000223675	260.2
No	KNSN-TV	D20	DT	LIC	RENO, NV	BLANK0000235427	260.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19
Mask: Full Service
Latitude: 40 39 15.10 N (NAD83)
Longitude: 122 31 15.70 W
Height AMSL: 983.5 m
HAAT: 0.0 m
Peak ERP: 5.00 kW
Antenna: SCA-PR-450CU (ID 23500) 110.0 deg
Elev Pattn: Generic

49.3 dBu contour:
Azimuth ERP HAAT Distance
0.0 deg 0.010 kW -15.7 m 5.9 km

45.0	0.012	599.1	26.2
90.0	1.06	719.3	55.2
135.0	0.378	754.8	49.2
180.0	0.014	557.5	26.1
225.0	0.012	194.7	15.1
270.0	0.003	439.5	16.6
315.0	0.006	320.8	16.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 446 m

Distance to Canadian border: 845.3 km

Distance to Mexican border: 1003.0 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 168.3 degrees Distance: 332.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 86.5 degrees Distance: 1460.2 km

No land mobile station failures found

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 BLANK0000063272 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KHSL-TV	D18	LD	LIC	CHICO, CA	BLANK0000063272	
Undesireds:	K15KO-D	D19	LD	LIC	REDDING, CA	K15KO-D Displaced to 1	0.3 km
	K17BA-D	D17	LD	LIC	YREKA, CA	BLDTT20100113ADI	106.6
	K18ND-D	D18	LD	LIC	CHICO AND PARADISE, CA	BLANK0000068720	103.4
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	321.4
	KTVC	D18	DT	CP	ROSEBURG, OR	BLANK0000036020	291.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4845.3		199,629		4487.6		197,219	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K15KO-D D19 LD LIC		1.0		0		1.0 0	
K18ND-D D18 LD LIC		88.8		1,289		87.8 1,289	
KUVS-DT D18 DT LIC		1.0		0		0.0 0	

Interference to BLANK0000214820 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXCH-LD	D19	LD	LIC	CHICO, CA	BLANK0000214820	
Undesireds:	K15KO-D	D19	LD	LIC	REDDING, CA	K15KO-D Displaced to 1	119.4 km
	K18ND-D	D18	LD	LIC	CHICO AND PARADISE, CA	BLANK0000068720	23.3
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	118.5
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	250.5
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	330.7
	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	63.0
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	135.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4714.5		255,351		4582.6		213,490	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	

K15KO-D D19 LD LIC	9.0	0			1.0	0
K18ND-D D18 LD LIC	54.1	1,445	19.9	800	19.9	800
KMUM-CD D19 DC LIC	110.4	22,268	92.3	21,977	92.3	21,977
KSTS D19 DT LIC	5.0	123	1.0	0	1.0	0
KNVN D20 DT LIC	21.1	429	6.0	75	6.0	75

Interference to proposal scenario 1
2.52% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K15KO-D	D19	LD	LIC	REDDING, CA	K15KO-D Displaced to 1	
Undesireds:	KHSL-TV	D18	LD	LIC	CHICO, CA	BLANK0000063272	0.3 km
	KXCH-LD	D19	LD	LIC	CHICO, CA	BLANK0000214820	119.4
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	214.1
	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	57.1

Service area		Terrain-limited		IX-free	Percent IX
2935.6	165,002	2696.4	163,585	2524.8	159,463
				6.36	2.52
Undesired		Total IX		Unique IX	Prcnt Unique IX
KHSL-TV D18 LD LIC	2.0	4	1.0	0	0.04
KXCH-LD D19 LD LIC	117.7	1,924	84.8	1,151	3.14
KNVN D20 DT LIC	85.8	2,971	51.9	2,194	1.92
					1.34