

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: K15CX-D 33 5 kW, Model: Longley-Rice  
Start: 2024.03.05 12:57:07

Study created: 2024.03.05 12:57:07

Study build station data: LMS TV 2024-03-04 #222

Proposal: K15CX-D D33 LD APP OROVILLE, CA  
File number: K15CX-D 33 5 kW  
Facility ID: 8256  
Station data: User record  
Record ID: 300  
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	K32MJ-D	D32	LD	LIC	LITCHFIELD, CA	BLANK0000063162	130.1 km
No	KSTV-LD	D32-	LD	LIC	SACRAMENTO, CA	BLANK0000071667	99.7
No	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	204.3
No	K32GW-D	D32	LD	LIC	CARSON CITY, NV	BLDTT20070529ADO	162.8
No	KQSX-LD	D33+	LD	LIC	CAL - OREGON, CA	BLANK0000166011	211.9
No	KEMY-LD	D33	LD	LIC	EUREKA, CA	BLANK0000142981	247.3
No	KJEO-LD	D33-	LD	LIC	FRESNO, CA	BLANK0000093725	325.0
Yes	K33HH-D	D33	LD	LIC	REDDING, CA	BLANK0000180657	154.7
Yes	K33HH-D	N33	TX	LIC	REDDING, CA	BLTTL20030507AAC	154.6
No	KMSX-LD	D33	LD	LIC	SACRAMENTO, CA	BLANK0000199352	84.4
Yes	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	210.8
No	K33GZ-D	D33	LD	LIC	HAWTHORNE, NV	BLDTT20110630AAM	267.9
No	KNPB	D33	LD	LIC	RENO, NV	BLEDT20111026AAC	153.6
No	K33IB-D	D33	LD	LIC	SILVER SPRINGS, NV	BLDTT20100803ABT	195.5
No	K33ER-D	D33	LD	LIC	VERDI/MOGUL, NV	BLDTT20140618ABM	141.3
No	K33ER-D	D33	LD	CP	VERDI/MOGUL, NV	BDFCDTT20080922AEY	141.3
No	K33PM-D	D33	LD	LIC	GOLD HILL, OR	BLANK0000063231	350.5
No	KFTS	D33	DT	LIC	KLAMATH FALLS, OR	BLEDT20060202AHF	292.8
No	K33GJ-D	D33	LD	LIC	MERLIN, OR	BLDTL20110527ALR	379.4
No	DK48KB	D34z	LD	APP	CHICO, CA	BLANK0000054000	51.4
No	K34KK-D	D34	LD	LIC	LITCHFIELD, CA	BLDTT20091029ABY	130.0
No	KACA-LD	D34	LD	LIC	MODESTO, CA	BLDTL20140602AAB	195.5
No	KRCR-TV	D34	LD	LIC	REDDING, CA	BLCDT20131126ACK	156.0
No	KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	100.0
No	K34QQ-D	D34	LD	LIC	TAHOE CITY, CA	BLANK0000210635	146.7
No	KFSF-DT	D34	DT	LIC	VALLEJO, CA	BLCDT20100513ABB	204.3
No	KFSF-DT	D34	DT	CP	VALLEJO, CA	BLANK0000227260	204.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D33  
Mask: Simple  
Latitude: 39 27 46.00 N (NAD83)  
Longitude: 121 34 53.00 W  
Height AMSL: 93.2 m  
HAAT: 0.0 m  
Peak ERP: 5.00 kW  
Antenna: TUMC1 North 250.0 deg  
Elev Pattern: Generic

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	5.00 kW	-67.1 m	24.7 km
45.0	1.30	-75.7	18.4
90.0	0.034	-138.8	7.4
135.0	0.033	14.5	7.4
180.0	0.025	60.3	9.7
225.0	0.033	62.7	10.6
270.0	0.034	57.5	10.3
315.0	1.30	46.5	22.7

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: -5 m

Distance to Canadian border: 986.4 km

Distance to Mexican border: 848.6 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 184.5 degrees    Distance: 193.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 81.6 degrees    Distance: 1394.3 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%

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Interference to BLANK0000180657 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K33HH-D	D33	LD	LIC	REDDING, CA	BLANK0000180657	
Undesireds:	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	154.7 km
	K32OI-D	D32	LD	CP	EUREKA, CA	BLANK0000153510	122.6
	K33ER-D	D33	LD	LIC	VERDI/MOGUL, NV	BLDTT20140618ABM	250.0
	KRCR-TV	D34	LD	LIC	REDDING, CA	BLCDT20131126ACK	12.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5202.6		188,656		4513.5		182,788	0.02    0.01
				Total IX		Unique IX, before	Unique IX, after
Undesired						1.0	26
K15CX-D D33 LD APP		1.0		26		1.0	26
KRCR-TV D34 LD LIC		248.1		3,235		248.1	3,235

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Interference to BLTTL20030507AAC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K33HH-D	N33	TX	LIC	REDDING, CA	BLTTL20030507AAC	
Undesireds:	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	154.6 km
	K33ER-D	D33	LD	LIC	VERDI/MOGUL, NV	BLDTT20140618ABM	249.9
	KRCR-TV	D34	LD	LIC	REDDING, CA	BLCDT20131126ACK	12.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
584.8		113,726		490.2		2,835	0.00    0.00
				102,571		158.4	2,835
				Total IX		Unique IX, before	Unique IX, after
Undesired						0.0	0
K15CX-D D33 LD APP		3.0		0		0.0	0
KRCR-TV D34 LD LIC		331.8		99,736		328.8	99,736

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Interference to BLANK0000108766 LIC scenario 1

Desired:	Call KKPX-TV	Chan D33	Svc DT	Status LIC	City, State SAN JOSE, CA	File Number BLANK0000108766	Distance
Undesireds:	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	210.8 km
	KION-TV	D32	DT	CP	MONTEREY, CA	BLANK0000219776	147.0
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	7.7
	KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	128.5
	KFSF-DT	D34	DT	LIC	VALLEJO, CA	BLCDT20100513ABB	7.7
Service area	28950.8	7,593,388	Terrain-limited	24077.3	6,758,943	IX-free, before	22882.5 6,607,761
						IX-free, after	22880.5 6,607,761
						Percent New IX	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K15CX-D D33 LD APP		3.0		0		2.0	0
KION-TV D32 DT CP		182.7		3,598	182.7 3,598	182.7	3,598
KCNS D32 DT LIC		674.2		128,912	191.4 56,675	191.4	56,675
KEZT-CD D34 DC LIC		309.7		11,474	298.6 11,425	297.6	11,425
KFSF-DT D34 DT LIC		512.1		79,435	39.3 7,247	39.3	7,247

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Interference to BLANK0000108766 LIC scenario 2

Desired:	Call KKPX-TV	Chan D33	Svc DT	Status LIC	City, State SAN JOSE, CA	File Number BLANK0000108766	Distance
Undesireds:	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	210.8 km
	KION-TV	D32	DT	LIC	MONTEREY, CA	BLCDT20030604ACO	147.0
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	7.7
	KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	128.5
	KFSF-DT	D34	DT	LIC	VALLEJO, CA	BLCDT20100513ABB	7.7
Service area	28950.8	7,593,388	Terrain-limited	24077.3	6,758,943	IX-free, before	22982.3 6,609,163
						IX-free, after	22980.3 6,609,163
						Percent New IX	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K15CX-D D33 LD APP		3.0		0		2.0	0
KION-TV D32 DT LIC		82.9		2,196	82.9 2,196	82.9	2,196
KCNS D32 DT LIC		674.2		128,912	191.4 56,675	191.4	56,675
KEZT-CD D34 DC LIC		309.7		11,474	298.6 11,425	297.6	11,425
KFSF-DT D34 DT LIC		512.1		79,435	39.3 7,247	39.3	7,247

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Interference to BLANK0000108766 LIC scenario 3

Desired:	Call KKPX-TV	Chan D33	Svc DT	Status LIC	City, State SAN JOSE, CA	File Number BLANK0000108766	Distance
Undesireds:	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	210.8 km
	KION-TV	D32	DT	CP	MONTEREY, CA	BLANK0000219776	147.0
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	7.7
	KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	128.5
	KFSF-DT	D34	DT	CP	VALLEJO, CA	BLANK0000227260	7.7
Service area	28950.8	7,593,388	Terrain-limited	24077.3	6,758,943	IX-free, before	22826.2 6,580,419
						IX-free, after	22824.2 6,580,419
						Percent New IX	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K15CX-D D33 LD APP		3.0		0		2.0	0
KION-TV D32 DT CP		182.7		3,598	182.7 3,598	182.7	3,598
KCNS D32 DT LIC		674.2		128,912	91.7 36,797	91.7	36,797
KEZT-CD D34 DC LIC		309.7		11,474	298.6 11,425	297.6	11,425
KFSF-DT D34 DT CP		670.2		126,662	95.7 34,589	95.7	34,589

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Interference to BLANK0000108766 LIC scenario 4

Desired:	Call KKPX-TV	Chan D33	Svc DT	Status LIC	City, State SAN JOSE, CA	File Number BLANK0000108766	Distance
Undesireds:	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	210.8 km
	KION-TV	D32	DT	LIC	MONTEREY, CA	BLCDT20030604ACO	147.0

KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	7.7
KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	128.5
KFSF-DT	D34	DT	CP	VALLEJO, CA	BLANK0000227260	7.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
28950.8	7,593,388	24077.3	6,758,943	22926.0	6,581,821	22924.0	6,581,821	0.01 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
K15CX-D D33 LD APP	3.0	0		2.0	0	
KION-TV D32 DT LIC	82.9	2,196		82.9	2,196	
KCNS D32 DT LIC	674.2	128,912		91.7	36,797	
KEZT-CD D34 DC LIC	309.7	11,474		298.6	11,425	
KFSF-DT D34 DT CP	670.2	126,662		95.7	34,589	

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K15CX-D	D33	LD	APP	OROVILLE, CA	K15CX-D 33 5 kW	
Undesireds:	K33HH-D	D33	LD	LIC	REDDING, CA	BLANK0000180657	154.7 km
	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	210.8
	K33ER-D	D33	LD	LIC	VERDI/MOGUL, NV	BLDTT20140618ABM	141.3

Service area		Terrain-limited		IX-free		Percent IX
726.2	45,801	674.5	45,250	658.7	45,136	2.35 0.25

Undesired		Total IX		Unique IX		Prcnt Unique IX
KKPX-TV D33 DT LIC	15.8	114		15.8	114	2.35 0.25