

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KSMV @ Contractors Peak, Model: Longley-Rice
Start: 2023.05.10 10:55:05

Study last edited: 2023.05.10 10:55:02

Proposal: KSMV-LD D23 LD CP LOS ANGELES, CA
File number: KSMV @ Contractors Peak
Facility ID: 14002
Station data: User record
Record ID: 151
Country: U.S.

Proposal "before": (none)

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	219.6 km
KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	134.0
KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	85.2
KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	33.7

Record parameters as studied:

Channel: D23
Mask: Full Service
Latitude: 34 20 33.50 N (NAD83)
Longitude: 118 24 23.80 W
Height AMSL: 1135.3 m
HAAT: 524.4 m
Peak ERP: 5.00 kW
Antenna: KAT-75010210 (ID 1003083) 180.0 deg
Elev Pattn: Generic

49.7 dBu contour:			
Azimuth	ERP	HAAT	Distance
0.0 deg	0.042 kW	558.8 m	31.9 km
45.0	0.015	198.4	15.9
90.0	0.012	71.6	9.3
135.0	1.07	624.9	53.0
180.0	5.00	824.2	66.8
225.0	1.12	803.4	56.5
270.0	0.018	484.0	25.6
315.0	0.022	630.2	29.2

Distance to Canadian border: 1600.5 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 213.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 322.3 degrees Distance: 481.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 57.2 degrees Distance: 1327.3 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%

Interference to BLANK0000064190 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	219.6 km
	KIFR	D22	DT	LIC	VISALIA, CA	BLANK0000093296	0.0
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000127501	321.5
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	303.4
	KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	193.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
38693.9		2,227,092		32510.1		2,203,885	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KSMV-LD D23 LD CP		4.0		0		0.0	0
KIFR D22 DT LIC		8.0		0		8.0	0
KQCA D23 DT CP		141.8		1,887		141.8	1,887
KVMD D23 DD LIC		7.0		0		3.0	0

Interference to BLANK0000064190 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	219.6 km
	KIFR	D22	DT	LIC	VISALIA, CA	BLANK0000093296	0.0

KQCA	D23	DT	LIC	STOCKTON, CA	BLANK0000143769	321.5
KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	303.4
KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	193.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
38693.9 2,227,092	32667.0 2,205,772	32541.2 2,205,125	32541.2 2,205,125	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	4.0 0		0.0 0
KIFR D22 DT LIC	8.0 0	8.0 0	8.0 0
KQCA D23 DT LIC	110.8 647	110.8 647	110.8 647
KVMD D23 DD LIC	7.0 0	7.0 0	3.0 0

Interference to BLANK0000145096 LIC scenario 1
 **IX: 9.37% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	

Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	134.0 km
	KVYE	D22	DT	LIC	EL CENTRO, CA	BLCDT20070604ABN	228.1
	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	99.7
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	100.5
	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	131.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
36224.0 15,308,157	28467.4 14,561,578	27802.6 14,172,144	25288.3 12,844,187	9.04 9.37

Undesired	Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	2608.8 1,357,051		2514.4 1,327,957
KVYE D22 DT LIC	9.0 0	9.0 0	9.0 0
KHTV-CD D22 DC LIC	77.7 2,312	16.9 51	15.9 51
KPXN-TV D24 DT LIC	637.9 389,290	577.1 387,029	493.7 358,091
KBNT-CD D24 DC LIC	1.0 93	1.0 93	1.0 93

Interference to BLDTL20130508ABU LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	

Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	85.2 km
	K220P-D	D22	LD	CP	SANTA BARBARA, CA	BLANK0000129740	60.6
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	217.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5141.4 694,641	4660.5 544,382	4305.3 525,397	4305.3 525,397	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	1.0 0		0.0 0
K220P-D D22 LD CP	34.2 8,142	27.2 1,897	27.2 1,897
KVMD D23 DD LIC	328.0 17,088	321.0 10,843	320.1 10,843

Interference to BLANK0000068510 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	

Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	33.7 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	100.5
	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	171.8
	KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	267.9
	KVVU-TV	D24	DT	CP	HENDERSON, NV	BLANK0000185177	341.4
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394	148.0
	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	0.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35837.1 17,250,725	25875.5 15,725,750	24896.3 15,185,654	24863.4 15,169,128	0.13 0.11

Undesired	Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	33.8 21,844		32.8 16,526
KVMD D23 DD LIC	309.1 251,159	272.3 228,038	272.3 228,038
KBNT-CD D24 DC LIC	368.3 141,265	334.5 129,290	334.5 129,290
KVVU-TV D24 DT CP	13.1 8	13.1 8	13.1 8
KGET-TV D25 DT LIC	4.0 0	4.0 0	4.0 0
KVEA D25 DT LIC	327.5 172,689	312.6 157,735	311.6 152,417

Interference to BLANK0000068510 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	

Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	33.7 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	100.5
	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	171.8
	KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	267.9
	KVVU-TV	D24	DT	CP	HENDERSON, NV	BLANK0000185177	341.4
	KGET-TV	D25	DT	CP	BAKERSFIELD, CA	BLANK0000127615	148.0
	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	0.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35837.1 17,250,725	25875.5 15,725,750	24896.3 15,185,654	24863.4 15,169,128	0.13 0.11

Undesired			Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	33.8		21,844		32.8 16,526
KVMD D23 DD LIC	309.1		251,159	272.3 228,038	272.3 228,038
KBNT-CD D24 DC LIC	368.3		141,265	334.5 129,290	334.5 129,290
KVVU-TV D24 DT CP	13.1		8	13.1 8	13.1 8
KGET-TV D25 DT CP	8.0		43	4.0 0	4.0 0
KVEA D25 DT LIC	327.5		172,689	308.6 157,692	307.6 152,374

Interference to BLANK000068510 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK000068510	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	33.7 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	100.5
	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	171.8
	KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	267.9
	KVVU-TV	D24	DT	BL	HENDERSON, NV	DTVBL35870	341.4
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK000007394	148.0
	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	0.2
Service area	17,250,725	Terrain-limited	15,725,750	IX-free, before	15,185,645	IX-free, after	15,169,119
35837.1		25875.5		24895.3		24862.4	Percent New IX 0.13 0.11

Undesired			Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	33.8		21,844		32.8 16,526
KVMD D23 DD LIC	309.1		251,159	272.3 228,038	272.3 228,038
KBNT-CD D24 DC LIC	368.3		141,265	334.5 129,290	334.5 129,290
KVVU-TV D24 DT BL	14.1		17	14.1 17	14.1 17
KGET-TV D25 DT LIC	4.0		0	4.0 0	4.0 0
KVEA D25 DT LIC	327.5		172,689	312.6 157,735	311.6 152,417

Interference to BLANK000068510 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK000068510	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	33.7 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	100.5
	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	171.8
	KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	267.9
	KVVU-TV	D24	DT	BL	HENDERSON, NV	DTVBL35870	341.4
	KGET-TV	D25	DT	CP	BAKERSFIELD, CA	BLANK0000127615	148.0
	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	0.2
Service area	17,250,725	Terrain-limited	15,725,750	IX-free, before	15,185,645	IX-free, after	15,169,119
35837.1		25875.5		24895.3		24862.4	Percent New IX 0.13 0.11

Undesired			Total IX	Unique IX, before	Unique IX, after
KSMV-LD D23 LD CP	33.8		21,844		32.8 16,526
KVMD D23 DD LIC	309.1		251,159	272.3 228,038	272.3 228,038
KBNT-CD D24 DC LIC	368.3		141,265	334.5 129,290	334.5 129,290
KVVU-TV D24 DT BL	14.1		17	14.1 17	14.1 17
KGET-TV D25 DT CP	8.0		43	4.0 0	4.0 0
KVEA D25 DT LIC	327.5		172,689	308.6 157,692	307.6 152,374

Interference to proposal scenario 1
84.99% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	
Undesireds:	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	34.7 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	134.0
	KIMG-LD	D23	LD	CP	VENTURA, CA	BLANK0000190551	93.1
	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK0000120152	106.7
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	33.7
Service area	7,940,190	Terrain-limited	6,676,465	IX-free	1,002,331	Percent IX	56.42 84.99
5183.6		4172.4		1818.1		56.42	
Undesired			Total IX	Unique IX	Prcnt Unique IX		
KHTV-CD D22 DC LIC	51.6		126,297	0.0 0	0.00 0.00		
KVMD D23 DD LIC	2346.2		5,674,132	2287.6 5,547,831	54.83 83.10		
KIMG-LD D23 LD CP	11.1		6	6.0 2	0.14 0.00		
KPXN-TV D24 DT LIC	16.9		4,145	0.0 0	0.00 0.00		

Interference to proposal scenario 2
85.01% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ Contractors Pea	
Undesireds:	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	34.7 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	134.0
	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	85.2
	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK0000120152	106.7
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	33.7
Service area	7,940,190	Terrain-limited	6,676,465	IX-free	1,000,543	Percent IX	56.81 85.01
5183.6		4172.4		1802.1		56.81	

Undesired		Total IX		Unique IX	Prcnt Unique IX	
KHTV-CD D22 DC LIC	51.6	126,297	0.0	0	0.00	0.00
KVMD D23 DD LIC	2346.2	5,674,132	2273.6	5,544,483	54.49	83.05
KIMG-LD D23 LD LIC	46.1	5,142	22.1	1,790	0.53	0.03
KPXN-TV D24 DT LIC	16.9	4,145	1.0	0	0.02	0.00