

tvstudy v2.2.5 (4uoc83)  
 Database: localhost, Study: KSMV @ MT LUKENS, Model: Longley-Rice  
 Start: 2022.07.12 08:56:33

Study created: 2022.07.12 08:56:33

Study build station data: LMS TV 2022-07-11

Proposal: KSMV-LD D23 LD CP LOS ANGELES, CA  
 File number: KSMV @ MT LUKENS  
 Facility ID: 14002  
 Station data: User record  
 Record ID: 103  
 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	K21AC-D	N21	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IG	95.0 km
No	K22NA-D	D22	LD	LIC	INYOKERN, ETC, CA	BLANK0000068893	143.8
Yes	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	17.1
No	KJHP-LD	D22	LD	LIC	MORONGO VALLEY, CA	BLANK00000125585	171.9
No	K220P-D	D22	LD	CP	SANTA BARBARA, CA	BLANK00000129740	160.7
No	KIFR	D22	DT	LIC	VISALIA, CA	BLANK0000093296	231.0
No	K23BJ-D	D23	LD	LIC	LAKE HAVASU CITY, AZ	BLANK00000177714	356.2
No	K23BJ-D	N23	TX	LIC	LAKE HAVASU CITY, AZ	BLTTL19891127JR	356.2
No	DK41CB	D23z	LD	APP	LUCERNE VALLEY, CA	BLANK0000054648	126.3
No	K23LK-D	D23	LD	LIC	MODESTO, CA	BLDTL20140220AAA	429.8
No	KMUU-LD	D23	LD	LIC	MONTEREY, CA	BLANK00000143484	404.7
No	K23ML-D	D23	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000011282	140.5
Yes	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	231.0
No	K23IS-D	D23	LD	LIC	RIDGECREST, ETC., CA	BLDTT20090622AAL	143.9
No	KFUL-LD	D23	LD	LIC	SAN LUIS OBISPO, CA	BLANK00000164867	252.1
Yes	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK00000145096	116.7
Yes	KIMG-LD	D23	LD	CP	VENTURA, CA	BLANK00000190551	109.4
Yes	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	101.3
No	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK00000120152	94.9
No	K23PI-D	D23	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAH	349.4
No	KLVD-LD	D23	LD	LIC	LAS VEGAS, NV	BLDTL20110728ADN	351.7
No	K08PT-D	N24+	TX	LIC	BAKERSFIELD, CA	BLTTL20050118ADI	142.9
No	K24LS-D	D24+	LD	LIC	LUCERNE VALLEY, CA	BLANK00000115882	94.9
No	K24LT-D	D24	LD	CP	PALM SPRINGS, CA	BNPDTL20100202AAV	171.8
Yes	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	16.2
No	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	183.2
No	K24NX-D	D24	LD	CP	SANTA BARBARA, CA	BLANK0000071874	134.1
No	K25AD-D	N25	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IE	95.0
No	K27AE-D	N27	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IF	95.0
No	K30GU-D	N30	TX	LIC	MORONGO VALLEY, CA	BLTT20021211AAS	157.1
No	K31AD-D	N31	TX	LIC	VICTORVILLE, ETC., CA	BLTT19900108IL	95.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23  
 Mask: Full Service  
 Latitude: 34 16 4.40 N (NAD83)  
 Longitude: 118 14 10.40 W  
 Height AMSL: 1547.2 m  
 HAAT: 776.6 m  
 Peak ERP: 5.00 kW  
 Antenna: SCA1X1KBBU 180.0 deg  
 Elev Pattern: Generic

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.050 kW	348.5 m	27.6 km
45.0	0.006	389.0	18.1
90.0	0.004	279.8	14.2
135.0	1.10	1004.1	59.6
180.0	5.00	1223.0	74.2
225.0	1.10	1133.1	61.4
270.0	0.004	1136.5	25.5
315.0	0.006	698.8	23.3

Distance to Canadian border: 1612.3 km

\*\*Proposal is within coordination distance of Mexican border  
 Distance to Mexican border: 199.8 km

Conditions at FCC monitoring station: Livermore CA  
 Bearing: 321.6 degrees Distance: 497.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 56.7 degrees Distance: 1318.7 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 BLANK000068679 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK000068679	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	17.1 km
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	99.7
Service area	17725.3	14,992,798	Terrain-limited	13711.7	13,825,439	IX-free, before	13700.8
						IX-free, after	13,806,542
							Percent New IX
							0.01 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
KSMV-LD D23 LD CP		2.0	180			2.0	180
KVMD D23 DD LIC		10.9	18,897		10.9	18,897	

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Interference to BLANK000064190 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK000064190	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	231.0 km
	KIFR	D22	DT	LIC	VISALIA, CA	BLANK000093296	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	38693.9	2,227,092	Terrain-limited	32667.0	2,205,772	IX-free, before	32510.1
						IX-free, after	2,203,885
							Percent New IX
							0.01 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
KSMV-LD D23 LD CP		7.0	0			2.0	0
KIFR D22 DT LIC		8.0	0		8.0	8.0	0
KQCA D23 DT CP		141.8	1,887		141.8	1,887	
KVMD D23 DD LIC		7.0	0		7.0	2.0	0

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Interference to BLANK000064190 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK000064190	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	231.0 km
	KIFR	D22	DT	LIC	VISALIA, CA	BLANK000093296	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	38693.9	2,227,092	Terrain-limited	32667.0	2,205,772	IX-free, before	32541.2
						IX-free, after	2,205,125
							Percent New IX
							0.01 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
KSMV-LD D23 LD CP		7.0	0			2.0	0
KIFR D22 DT LIC		8.0	0		8.0	8.0	0
KQCA D23 DT LIC		110.8	647		110.8	110.8	647
KVMD D23 DD LIC		7.0	0		7.0	2.0	0

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Interference to BLANK0000145096 LIC scenario 1

\*\*IX: 26.97% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	116.7 km
	KVYE	D22	DT	LIC	EL CENTRO, CA	BLCDT20070604ABN	228.1
	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK000068679	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	36224.0	15,308,157	Terrain-limited	28467.4	14,561,578	IX-free, before	27802.6
						IX-free, after	14,172,144
							Percent New IX
							13.72 26.97
Undesired			Total IX		Unique IX, before	Unique IX, after	

KSMV-LD D23 LD CP	4000.9	3,916,002			3815.1	3,822,351
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	13.9	51
KPXN-TV D24 DT LIC	637.9	389,290	577.1	387,029	410.4	293,534
KBNT-CD D24 DC LIC	1.0	93	1.0	93	1.0	93

Interference to BLANK0000190551 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KIMG-LD	D23	LD	CP	VENTURA, CA	BLANK0000190551	
Undesireds:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	109.4 km
	K220P-D	D22	LD	CP	SANTA BARBARA, CA	BLANK0000129740	52.3
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	225.5
	KKFX-CD	D24	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000129283	157.4
	K24NX-D	D24	LD	CP	SANTA BARBARA, CA	BLANK0000071874	25.8
Service area		3845.3	329,739	Terrain-limited		3169.7	272,285
				IX-free, before		2867.2	260,548
				IX-free, after		2867.2	260,548
				Percent New IX		0.00	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KSMV-LD D23 LD CP		2.0		0		0.0	0
K220P-D D22 LD CP		273.2		9,514	202.6	202.6	8,409
KVMD D23 DD LIC		93.8		2,223	28.2	28.2	2,223
K24NX-D D24 LD CP		6.0		1,105	1.0	1.0	0

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 @ MT LUKENS	101.3 km
	K220P-D	D22	LD	CP	SANTA BARBARA, CA	BLANK0000129740	60.6
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	217.4
	K24NX-D	D24	LD	CP	SANTA BARBARA, CA	BLANK0000071874	34.0
Service area		5141.4	694,641	Terrain-limited		4660.5	544,382
				IX-free, before		4305.3	525,397
				IX-free, after		4304.3	525,391
				Percent New IX		0.02	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KSMV-LD D23 LD CP		5.0		3,065		1.0	6
K220P-D D22 LD CP		34.2		8,142	26.2	26.2	1,254
KVMD D23 DD LIC		328.0		17,088	321.0	317.0	7,784
K24NX-D D24 LD CP		5.0		4,756	0.0	0.0	0

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 @ MT LUKENS	16.2 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		35837.1	17,250,725	Terrain-limited		25875.5	15,725,750
				IX-free, before		24896.3	15,185,654
				IX-free, after		24876.5	15,185,167
				Percent New IX		0.08	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KSMV-LD D23 LD CP		20.8		5,805		19.8	487
KVMD D23 DD LIC		309.1		251,159	272.3	272.3	228,038
KBNT-CD D24 DC LIC		368.3		141,265	334.5	334.5	129,290
KVVU-TV D24 DT CP		13.1		8	13.1	13.1	8
KGET-TV D25 DT LIC		4.0		0	4.0	4.0	0
KVEA D25 DT LIC		327.5		172,689	312.6	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 @ MT LUKENS	16.2 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	BLANK0000007394	148.0
	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	0.2
Service area		35837.1	17,250,725	Terrain-limited		25875.5	15,725,750
				IX-free, before		24895.3	15,185,645
				IX-free, after		24875.5	15,185,158
				Percent New IX		0.08	0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
KSMV-LD D23 LD CP	20.8		5,805			19.8	487
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

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Interference to BLANK0000068510 LIC scenario 3

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 @ MT LUKENS	16.2 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	24876.5 15,185,167 0.08 0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
KSMV-LD D23 LD CP	20.8		5,805			19.8	487
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

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Interference to BLANK0000068510 LIC scenario 4

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 @ MT LUKENS	16.2 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		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	35837.1	17,250,725	25875.5	15,725,750	24895.3	15,185,645	24875.5 15,185,158 0.08 0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
KSMV-LD D23 LD CP	20.8		5,805			19.8	487
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

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Interference to proposal scenario 1  
94.79% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	
Undesireds:	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	17.1 km
	K23ML-D	D23	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000011282	140.5
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	231.0
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	116.7
	KIMG-LD	D23	LD	CP	VENTURA, CA	BLANK0000190551	109.4
	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK0000120152	94.9
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	16.2

Service area	Terrain-limited	IX-free	Percent IX
6059.6 10,300,011	5552.4 9,970,089	1186.9 519,721	78.62 94.79

Undesired		Total IX	Unique IX		Prcnt Unique IX	
KHTV-CD D22 DC LIC	176.0	416,987	0.0	0	0.00	0.00
K23ML-D D23 LD LIC	1.0	0	0.0	0	0.00	0.00
KTFF-DT D23 DT LIC	1.0	0	0.0	0	0.00	0.00
KVMD D23 DD LIC	4338.3	9,450,367	4101.7	8,994,855	73.87	90.22
KIMG-LD D23 LD CP	17.1	1	10.1	1	0.18	0.00
K230M-D D23 LD LIC	3.0	0	1.0	0	0.02	0.00
KPXN-TV D24 DT LIC	190.4	338,892	12.1	0	0.22	0.00

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Interference to proposal scenario 2

94.79% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	KSMV @ MT LUKENS	
Undesireds:	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	17.1 km
	K23ML-D	D23	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000011282	140.5
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	231.0
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	116.7
	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	101.3
	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK0000120152	94.9
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	16.2
Service area		Terrain-limited		IX-free		Percent IX	
6059.6 10,300,011		5552.4 9,970,089		1189.9 519,468		78.57 94.79	
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KHTV-CD D22 DC LIC	176.0	416,987	0.0	0	0.00	0.00	
K23ML-D D23 LD LIC	1.0	0	0.0	0	0.00	0.00	
KTFF-DT D23 DT LIC	1.0	0	0.0	0	0.00	0.00	
KVMD D23 DD LIC	4338.3	9,450,367	4091.8	8,994,182	73.69	90.21	
KIMG-LD D23 LD LIC	20.9	927	7.0	254	0.13	0.00	
K230M-D D23 LD LIC	3.0	0	1.0	0	0.02	0.00	
KPXN-TV D24 DT LIC	190.4	338,892	14.1	0	0.25	0.00	