

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KSMV Airties Alive-1, Model: Longley-Rice  
Start: 2023.08.10 09:50:21

Study last edited: 2023.08.10 09:50:15

Proposal: KSMV-LD D23 LD APP LOS ANGELES, CA  
File number: KSMV @ Airties Alive #1  
Facility ID: 14002  
Station data: User record  
Record ID: 180  
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
KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679	51.2 km
KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	150.9
KIMG-LD	D23	LD	CP	VENTURA, CA	BLANK0000190551	75.3
KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	67.4
KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	50.4

Record parameters as studied:

Channel: D23  
Mask: Full Service  
Latitude: 34 19 45.30 N (NAD83)  
Longitude: 118 36 5.40 W  
Height AMSL: 1153.7 m  
HAAT: 702.8 m  
Peak ERP: 15.0 kW  
Antenna: Alive #1 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.75

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.40 kW	716.8 m	60.0 km
45.0	3.04	724.4	61.7
90.0	0.185	590.2	41.4
135.0	0.127	784.3	42.2
180.0	2.02	842.8	61.1
225.0	12.7	693.1	70.7
270.0	8.51	592.3	65.4
315.0	1.73	678.8	57.1

Distance to Canadian border: 1597.8 km

\*\*Proposal is within coordination distance of Mexican border  
Distance to Mexican border: 220.2 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 324.0 degrees Distance: 471.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 57.5 degrees Distance: 1343.2 km

Study cell size: 1.00 km  
Profile point spacing: 0.50 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000068679 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KHTV-CD	D22	DC	LIC	LOS ANGELES, CA	BLANK0000068679			
Undesireds:	KSMV-LD	D23	LD	APP	LOS ANGELES, CA	KSMV @ Airties Alive	51.2 km		
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	99.7		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
17725.3		14,992,798		14717.1		13,996,612	0.20 0.13		
Undesired				Total IX	Unique IX, before	Unique IX, after			
KSMV-LD D23 LD APP				29.2	17,606	29.2	17,606		
KVMD D23 DD LIC				15.8	12,432	15.8	12,432		

Interference to BLANK0000145096 LIC scenario 1

\*\*IX: 1.94% 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	APP	LOS ANGELES, CA	KSMV @ Airties Alive	150.9 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	
36224.0	15,308,157	29356.7	14,510,814	28786.1	14,119,011	28013.5
						Percent New IX
						2.68 1.94

Undesired	Total IX		Unique IX, before		Unique IX, after	
KSMV-LD D23 LD APP	896.6	340,874			772.6	273,590
KVYE D22 DT LIC	9.0	0	9.0	0	9.0	0
KHTV-CD D22 DC LIC	68.6	2,798	18.8	344	18.8	344
KPXN-TV D24 DT LIC	542.8	391,459	492.9	389,005	374.9	321,877

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	APP	LOS ANGELES, CA	KSMV @ Airties Alive	75.3 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	CP	SAN LUIS OBISPO, CA	BLANK0000157896	157.4
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
3845.3	329,739	3379.9	293,581	3111.6	284,994	2587.1	16.86 1.99
Undesired	Total IX		Unique IX, before		Unique IX, after		
KSMV-LD D23 LD APP	724.2	9,512			524.5	5,667	
K220P-D D22 LD CP	248.1	8,269	189.6	8,269	66.5	4,742	
KVMD D23 DD LIC	78.7	318	20.2	318	0.0	0	

Interference to BLDTL20130508ABU LIC scenario 1

\*\*IX: 61.05% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	
Undesireds:	KSMV-LD	D23	LD	APP	LOS ANGELES, CA	KSMV @ Airties Alive	67.4 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	4661.6	539,886	4321.2	517,757	2096.8	51.48 61.05
Undesired	Total IX		Unique IX, before		Unique IX, after		
KSMV-LD D23 LD APP	2262.5	338,210			2224.4	316,081	
K220P-D D22 LD CP	32.1	8,476	23.1	2,696	14.1	0	
KVMD D23 DD LIC	317.2	19,433	308.3	13,653	288.2	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	APP	LOS ANGELES, CA	KSMV @ Airties Alive	50.4 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	CP	SAN LUIS OBISPO, CA	BLANK0000157896	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	26798.0	15,744,567	25985.0	15,299,954	25852.0	0.51 0.49
Undesired	Total IX		Unique IX, before		Unique IX, after		
KSMV-LD D23 LD APP	168.3	77,229			133.0	75,058	
KVMD D23 DD LIC	242.5	207,124	222.6	196,853	222.6	196,853	
KBNT-CD D24 DC LIC	322.3	100,114	304.4	92,649	304.4	92,649	
KVVU-TV D24 DT CP	10.0	32	10.0	32	10.0	32	
KGET-TV D25 DT LIC	2.0	0	2.0	0	1.0	0	
KVEA D25 DT LIC	256.1	147,614	254.1	144,808	219.9	142,637	

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	APP	LOS ANGELES, CA	KSMV @ Airties Alive	50.4 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	CP	SAN LUIS OBISPO, CA	BLANK0000157896	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	26798.0	15,744,567	25984.0	15,299,954	25851.0	0.51 0.49
Undesired	Total IX		Unique IX, before		Unique IX, after		
KSMV-LD D23 LD APP	168.3	77,229			133.0	75,058	
KVMD D23 DD LIC	242.5	207,124	222.6	196,853	222.6	196,853	

KBNT-CD D24 DC LIC	322.3	100,114	304.4	92,649	304.4	92,649
KVVU-TV D24 DT CP	10.0	32	10.0	32	10.0	32
KGET-TV D25 DT CP	3.0	0	3.0	0	2.0	0
KVEA D25 DT LIC	256.1	147,614	254.1	144,808	219.9	142,637

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	APP	LOS ANGELES, CA	KSMV @ Airties Alive	50.4 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	CP	SAN LUIS OBISPO, CA	BLANK0000157896	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		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35837.1		17,250,725		26798.0		15,224,896	0.51 0.49
Undesired		Total IX		Unique IX, before		Unique IX, after	
KSMV-LD D23 LD APP		168.3		77,229		133.0	75,058
KVMD D23 DD LIC		242.5		207,124		222.6	196,853
KBNT-CD D24 DC LIC		322.3		100,114		304.4	92,649
KVVU-TV D24 DT BL		10.0		32		10.0	32
KGET-TV D25 DT LIC		2.0		0		1.0	0
KVEA D25 DT LIC		256.1		147,614		219.9	142,637

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	APP	LOS ANGELES, CA	KSMV @ Airties Alive	50.4 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	CP	SAN LUIS OBISPO, CA	BLANK0000157896	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		26798.0		15,224,896	0.51 0.49
Undesired		Total IX		Unique IX, before		Unique IX, after	
KSMV-LD D23 LD APP		168.3		77,229		133.0	75,058
KVMD D23 DD LIC		242.5		207,124		222.6	196,853
KBNT-CD D24 DC LIC		322.3		100,114		304.4	92,649
KVVU-TV D24 DT BL		10.0		32		10.0	32
KGET-TV D25 DT CP		3.0		0		2.0	0
KVEA D25 DT LIC		256.1		147,614		219.9	142,637

Interference to proposal scenario 1

52.76% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSMV-LD	D23	LD	APP	LOS ANGELES, CA	KSMV @ Airties Alive	
Undesireds:	K220P-D	D22	LD	CP	SANTA BARBARA, CA	BLANK0000129740	126.5 km
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	218.7
	K23IS-D	D23	LD	LIC	RIDGECREST, ETC., CA	BLDTT20090622AAL	152.9
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	150.9
	KIMG-LD	D23	LD	CP	VENTURA, CA	BLANK0000190551	75.3
	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK0000120152	124.4
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	50.4
Service area		Terrain-limited		IX-free		Percent IX	
10878.0		5,435,205		7336.0		1,864,912	
Undesired		Total IX		Unique IX		Prct Unique IX	
K220P-D D22 LD CP		60.2		2,038		0.07 0.00	
KTFF-DT D23 DT LIC		18.8		2,148		0.04 0.00	
K23IS-D D23 LD LIC		1.0		0		0.00 0.00	
KVMD D23 DD LIC		1151.8		2,076,430		14.57 52.50	
KIMG-LD D23 LD CP		146.3		4,855		0.66 0.06	
K230M-D D23 LD LIC		22.1		1,982		0.23 0.05	
KPXN-TV D24 DT LIC		4.0		1,523		0.03 0.00	

Interference to proposal scenario 2

56.65% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSMV-LD	D23	LD	APP	LOS ANGELES, CA	KSMV @ Airties Alive	
Undesireds:	K220P-D	D22	LD	CP	SANTA BARBARA, CA	BLANK0000129740	126.5 km
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	218.7
	K23IS-D	D23	LD	LIC	RIDGECREST, ETC., CA	BLDTT20090622AAL	152.9
	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	150.9
	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	67.4
	K230M-D	D23	LD	LIC	VICTORVILLE, CA	BLANK0000120152	124.4

KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	50.4
Service area			Terrain-limited		IX-free	Percent IX
10878.0	5,435,205	7336.0	3,947,794	5790.1	1,711,514	21.07 56.65
Undesired			Total IX		Unique IX	Prcnt Unique IX
K220P-D D22 LD CP		60.2	2,038	0.0	0	0.00 0.00
KTFF-DT D23 DT LIC		18.8	2,148	3.0	0	0.04 0.00
K23IS-D D23 LD LIC		1.0	0	1.0	0	0.01 0.00
KVMD D23 DD LIC		1151.8	2,076,430	1010.1	2,066,477	13.77 52.35
KIMG-LD D23 LD LIC		494.8	165,716	331.5	155,830	4.52 3.95
K230M-D D23 LD LIC		22.1	1,982	18.1	1,939	0.25 0.05
KPXN-TV D24 DT LIC		4.0	1,523	2.0	0	0.03 0.00