

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Santa7d3kwSAM180IncF, Model: Longley-Rice

Start: 2021.07.22 11:42:14

Study created: 2021.07.22 11:42:14

Study build station data: LMS TV 2021-07-22

Proposal: K39LY-D D7 LD APP SANTA MARIA, CA

Facility ID: 185682

Station data: User record

Record ID: 723

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	NEW	D7	LD	CP	BAKERSFIELD, CA	BNPDTL20090825APG	149.9 km
No	KAIL	D7	DT	LIC	FRESNO, CA	BLANK0000146860	256.9
No	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	231.7
No	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	231.7
No	KOTR-LD	D7	LD	CP	MONTEREY, CA	BLANK0000122307	208.9
No	KOTR-LD	D7	LD	LIC	MONTEREY, CA	BLDVL20140916ABL	224.4
No	NEW	D7	LD	APP	NORTH PALM SPRINGS, CA	BNPDVL20090825BHP	375.1
No	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	362.8
No	K24GS	D8	LD	CP	BAKERSFIELD, CA	BDISDVL20121010AAW	179.4
No	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	225.3
No	KZDF-LD	D8	LD	LIC	SANTA BARBARA, CA	BLANK0000001085	86.9
No	KKDJ-LD	D8	LD	LIC	SANTA MARIA, CA	BLANK0000152363	24.6
No	KKDJ-LD	N8z	TX	LIC	SANTA MARIA, CA	BLTVL20070508AAI	24.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7  
Mask: Full Service  
Latitude: 34 54 53.80 N (NAD83)  
Longitude: 120 27 23.20 W  
Height AMSL: 77.3 m  
HAAT: 0.0 m  
Peak ERP: 3.00 kW  
Antenna: SAM-SAM-160 (ID 1005900) 180.0 deg  
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.059 kW	-13.6 m	11.8 km
45.0	0.027	-72.5	9.7
90.0	0.003	-47.6	5.4
135.0	0.677	-148.4	21.4
180.0	3.00	-78.6	28.9
225.0	0.677	-29.1	21.4
270.0	0.003	-66.5	5.4
315.0	0.027	40.7	11.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: -52 m

Distance to Canadian border: 1501.1 km

Distance to Mexican border: 378.5 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 340.0 degrees    Distance: 333.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 62.1 degrees    Distance: 1457.2 km

Study cell size: 1.00 km  
 Profile point spacing: 0.10 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 proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K39LY-D	D7	LD	APP	SANTA MARIA, CA		
Undesireds:	KAIL	D7	DT	LIC	FRESNO, CA	BLANK0000146860	256.9 km
	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	231.7
	KOTR-LD	D7	LD	CP	MONTEREY, CA	BLANK0000122307	208.9
	KKDJ-LD	D8	LD	LIC	SANTA MARIA, CA	BLANK0000152363	24.6
Service area		Terrain-limited		IX-free		Percent IX	
815.5	154,579	644.0	138,334	612.0	136,076	4.97	1.63
Undesired		Total IX		Unique IX		Prct Unique IX	
KAIL D7 DT LIC		9.0	2,177	8.0	2,177	1.25	1.57
KKDJ-LD D8 LD LIC		24.0	81	23.0	81	3.57	0.06

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 Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K39LY-D	D7	LD	APP	SANTA MARIA, CA		
Undesireds:	KAIL	D7	DT	LIC	FRESNO, CA	BLANK0000146860	256.9 km
	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	231.7
	KOTR-LD	D7	LD	CP	MONTEREY, CA	BLANK0000122307	208.9
Service area		Terrain-limited		IX-free		Percent IX	
815.5	154,579	644.0	138,334	635.0	136,157	1.40	1.57

Undesired		Total IX		Unique IX	Prct Unique IX
KAIL D7 DT LIC	9.0	2,177	9.0	2,177	1.40 1.57