

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: SantaMaria7d1kwincsam160at0fA1, Model: Longley-Rice  
Start: 2022.05.03 05:38:03

Study created: 2022.05.03 05:38:02

Study build station data: LMS TV 2022-05-03

Proposal: K07AAN-D D7 LD CP SANTA MARIA, CA  
Facility ID: 185682  
Station data: User record  
Record ID: 2020  
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	151.7 km
No	KAIL	D7	DT	LIC	FRESNO, CA	BLANK00000146860	254.4
No	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK00000058534	236.0
No	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK00000187418	236.0
No	KOTR-LD	D7	LD	CP	MONTEREY, CA	BLANK00000122307	203.9
No	KOTR-LD	D7	LD	LIC	MONTEREY, CA	BLDVL20140916ABL	219.4
No	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK00000112902	357.7
No	K08PT-D	D8	LD	LIC	BAKERSFIELD, CA	BLANK00000164558	168.0
No	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	220.4
No	KZDF-LD	D8	LD	LIC	SANTA BARBARA, CA	BLANK00000001085	91.9
No	KKDJ-LD	D8	LD	LIC	SANTA MARIA, CA	BLANK00000152363	28.2
No	KKDJ-LD	N8z	TX	LIC	SANTA MARIA, CA	BLTVL20070508AAI	28.2

Non-directional AM stations within 0.8 km:  
KSMA 1240 L ND1 U SANTA MARIA, CA BL19810714AA  
KSBQ 1480 L ND1 D SANTA MARIA, CA BL8744  
KSBQ 1480 L ND1 N SANTA MARIA, CA BL8744

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7  
Mask: Full Service  
Latitude: 34 57 1.34 N (NAD83)  
Longitude: 120 29 31.98 W  
Height AMSL: 63.0 m  
HAAT: 0.0 m  
Peak ERP: 1.00 kW  
Antenna: SAM-SAM-160 (ID 1005900) 0.0 deg  
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.00 kW	-48.0 m	23.4 km
45.0	0.226	-122.8	16.2
90.0	0.000	-65.1	4.1
135.0	0.009	-74.6	7.3
180.0	0.020	-82.9	9.0
225.0	0.009	-93.3	7.3
270.0	0.000	38.6	4.6
315.0	0.226	36.7	17.8

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: -51 m

Distance to Canadian border: 1496.7 km

Distance to Mexican border: 383.5 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 340.2 degrees    Distance: 328.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 62.3 degrees    Distance: 1458.3 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:	K07AAN-D	D7	LD	CP	SANTA MARIA, CA		
Undesireds:	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	236.0 km
	KOTR-LD	D7	LD	CP	MONTEREY, CA	BLANK0000122307	203.9
	KKDJ-LD	D8	LD	LIC	SANTA MARIA, CA	BLANK0000152363	28.2
	Service area	Terrain-limited		IX-free		Percent IX	
	509.6	97,065	497.6	91,718	478.6	90,452	3.82 1.38
Undesired			Total IX		Unique IX	Prcnt Unique IX	
KKDJ-LD D8 LD LIC	19.0		1,266		19.0	1,266	3.82 1.38

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Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K07AAN-D	D7	LD	CP	SANTA MARIA, CA		
Undesireds:	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	236.0 km
	KOTR-LD	D7	LD	CP	MONTEREY, CA	BLANK0000122307	203.9
	Service area	Terrain-limited		IX-free		Percent IX	
	509.6	97,065	497.6	91,718	497.6	91,718	0.00 0.00