

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KMBY 4 X 2 ANT, Model: Longley-Rice
Start: 2023.03.21 08:29:52

Study created: 2023.03.21 08:29:52

Study build station data: LMS TV 2023-03-19

Proposal: KMBY-LD D29 LD CP Monterey, CA
File number: KMBY 4 X 2 ANT
Facility ID: 168787
Station data: User record
Record ID: 153
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	KQRM-LD	D28z	LD	LIC	PETALUMA, CA	BLANK0000068353	146.4 km
Yes	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	0.7
Yes	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987	153.8
No	KMPH-TV	D28	DT	LIC	VISALIA, CA	BLANK0000200287	245.5
No	KBFX-CD	D29	DC	LIC	BAKERSFIELD, CA	BLTTA20101018ACF	298.4
No	KMSG-LD	D29	LD	LIC	FRESNO, CA	BLANK0000068538	210.2
No	KFTR-DT	D29	DT	LIC	ONTARIO, CA	BLCDT20100401AFY	412.3
No	KFTR-DT	D29	DT	CP	ONTARIO, CA	BLANK0000035667	412.3
No	K26PQ-D	D29z	LD	APP	OROVILLE, CA	BLANK0000072216	325.1
Yes	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK0000212264	153.8
No	KQMM-CD	D29	DC	CP	SANTA MARIA, CA	BLANK0000127506	222.8
No	KQMM-CD	D29	DC	LIC	SANTA MARIA, CA	BLDTL20080423AEG	222.8
No	K29ES-D	D29	LD	LIC	CARSON CITY, NV	BLDTT20091105AAY	339.0
No	K29MG-D	D29	LD	LIC	HAWTHORNE, NV	BLANK0000071515	330.4
No	KFSN-TV	D30	DT	LIC	FRESNO, CA	BLANK0000081720	204.1
Yes	K300M-D	D30	LD	LIC	MONTEREY, CA	BLANK0000179227	26.6
Yes	KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	153.8
No	KDFS-CD	D30-	DC	LIC	SANTA MARIA, CA	BLANK0000001617	204.9
No	KDFS-CD	D30-	DC	CP	SANTA MARIA, CA	BLANK0000127514	204.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
Mask: Full Service
Latitude: 36 32 17.80 N (NAD83)
Longitude: 121 37 34.70 W
Height AMSL: 1006.0 m
HAAT: 698.4 m
Peak ERP: 15.0 kW
Antenna: KAT-750 10210 4x2 290.0 deg
Elev Pattn: Generic
Elec Tilt: 1.40

50.2 dBu contour:			
Azimuth	ERP	HAAT	Distance
0.0 deg	8.15 kW	957.3 m	71.7 km
45.0	0.618	937.2	53.9
90.0	0.087	887.6	40.7
135.0	0.156	153.7	24.5
180.0	0.794	519.9	48.3
225.0	9.82	608.0	66.0
270.0	9.96	736.9	69.1
315.0	10.0	786.8	70.1

Distance to Canadian border: 1308.3 km

Distance to Mexican border: 581.0 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 355.1 degrees Distance: 132.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 69.4 degrees Distance: 1479.6 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 BLANK0000068622 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	
Undesireds:	KMBY-LD	D29	LD	CP	Monterey, CA	KMBY 4 X 2 ANT	0.7 km

	KPKJ	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410		154.4	
	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987		154.4	
	KVMM-CD	D28	DC	LIC	SANTA BARBARA, CA	BLANK0000054369		289.4	
	KMPH-TV	D28	DT	LIC	VISALIA, CA	BLANK0000200287		245.0	
	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK0000212264		154.4	
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
12094.5	783,926		8973.7	649,633	8713.4	644,096	8687.3	643,514	0.30 0.09
Undesired				Total IX	Unique IX, before		Unique IX, after		
KMBY-LD	D29	LD	CP		582		26.1	582	
KPKJ	D27	DT	LIC		2.0	0	0.0	0	
KBCW	D28	DT	LIC		168.2	5,537	151.2	4,527	
KMPH-TV	D28	DT	LIC		105.0	0	92.0	0	
KPIX-TV	D29	DT	LIC		3.0	1,010	0.0	0	
Interference to BLANK0000112987 LIC scenario 1									
Desired:	Call	Chan	Svc	Status	City, State		File Number		Distance
	KBCW	D28	DT	LIC	SAN FRANCISCO, CA		BLANK0000112987		
Undesireds:	KMBY-LD	D29	LD	CP	Monterey, CA		KMBY 4 X 2 ANT		153.8 km
	KBTU-CD	D27	DC	LIC	SACRAMENTO, CA		BLDTA20140908AD0		123.9
	KMMD-CD	D28	DC	LIC	SALINAS, CA		BLANK0000068622		154.4
	KMPH-TV	D28	DT	LIC	VISALIA, CA		BLANK0000200287		338.6
	KKPM-CD	D28+	DC	LIC	YUBA CITY, CA		BLDTA2010914AHF		170.3
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
39447.6	8,226,852		33732.8	7,394,025	28936.0	6,780,662	28935.0	6,780,662	0.00 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
KMBY-LD	D29	LD	CP		33.0	0	1.0	0	
KBTU-CD	D27	DC	LIC		23.1	2,916	0.0	0	
KMMD-CD	D28	DC	LIC		1988.5	55,575	1841.7	23,978	
KMPH-TV	D28	DT	LIC		1320.1	385,361	151.8	28,681	
KKPM-CD	D28+	DC	LIC		2772.2	560,684	1574.8	195,397	
Interference to BLANK0000212264 LIC scenario 1									
Desired:	Call	Chan	Svc	Status	City, State		File Number		Distance
	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA		BLANK0000212264		
Undesireds:	KMBY-LD	D29	LD	CP	Monterey, CA		KMBY 4 X 2 ANT		153.8 km
	KMMD-CD	D28	DC	LIC	SALINAS, CA		BLANK0000068622		154.4
	KKPM-CD	D28+	DC	LIC	YUBA CITY, CA		BLDTA20100914AHF		170.3
	KQMM-CD	D29	DC	CP	SANTA MARIA, CA		BLANK0000127506		375.7
	KQED	D30	DT	LIC	SAN FRANCISCO, CA		BLANK0000040845		0.0
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
39349.9	8,220,157		33582.5	7,371,442	33149.8	7,364,041	31906.6	7,351,118	3.75 0.18
Undesired				Total IX	Unique IX, before		Unique IX, after		
KMBY-LD	D29	LD	CP		1636.8	16,212	1243.1	12,923	
KMMD-CD	D28	DC	LIC		409.7	4,370	18.0	1,081	
KKPM-CD	D28+	DC	LIC		11.0	842	11.0	842	
KQED	D30	DT	LIC		12.1	2,189	10.1	2,189	
Interference to BLANK0000179227 LIC scenario 1									
Desired:	Call	Chan	Svc	Status	City, State		File Number		Distance
	K300M-D	D30	LD	LIC	MONTEREY, CA		BLANK0000179227		
Undesireds:	KMBY-LD	D29	LD	CP	Monterey, CA		KMBY 4 X 2 ANT		26.6 km
	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA		BLANK0000212264		139.3
	KFSN-TV	D30	DT	LIC	FRESNO, CA		BLANK0000081720		187.2
	KQED	D30	DT	LIC	SAN FRANCISCO, CA		BLANK0000040845		139.3
	KDFS-CD	D30-	DC	LIC	SANTA MARIA, CA		BLANK0000001617		222.3
	KTVU	D31	DT	LIC	OAKLAND, CA		BLANK0000212413		139.3
	K310L-D	D31	LD	LIC	SALINAS, CA		BLANK0000074705		26.6
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
8479.6	892,867		7010.8	754,900	6697.4	730,761	6694.3	730,761	0.05 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
KMBY-LD	D29	LD	CP		39.1	10,608	3.0	0	
KPIX-TV	D29	DT	LIC		8.0	4	0.0	0	
KFSN-TV	D30	DT	LIC		138.7	61	121.6	25	
KQED	D30	DT	LIC		163.7	23,967	144.8	23,927	
KTVU	D31	DT	LIC		9.0	4	0.0	0	
K310L-D	D31	LD	LIC		34.1	147	18.1	147	
Interference to BLANK0000040845 LIC scenario 1									
Desired:	Call	Chan	Svc	Status	City, State		File Number		Distance
	KQED	D30	DT	LIC	SAN FRANCISCO, CA		BLANK0000040845		
Undesireds:	KMBY-LD	D29	LD	CP	Monterey, CA		KMBY 4 X 2 ANT		153.8 km
	KFSN-TV	D30	DT	LIC	FRESNO, CA		BLANK0000081720		276.9
	KCVU	D30	DT	LIC	PARADISE, CA		BLANK0000141547		253.5
	KDFS-CD	D30-	DC	LIC	SANTA MARIA, CA		BLANK0000001617		358.7
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX

37976.9	8,195,847	32181.1	7,302,085	29908.8	6,838,599	29906.8	6,838,599	0.01	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KMBY-LD D29 LD CP	3.0		0			2.0	0		
KFSN-TV D30 DT LIC	1546.7		394,843	257.6	26,348	256.6	26,348		
KCVU D30 DT LIC	2014.7		437,138	725.5	68,643	725.5	68,643		

Interference to proposal scenario 1
2.18% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMBY-LD	D29	LD	CP	Monterey, CA	KMBY 4 X 2 ANT	
Undesireds:	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	0.7 km
	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987	153.8
	KMSG-LD	D29	LD	LIC	FRESNO, CA	BLANK0000068538	210.2
	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK0000212264	153.8
	KQMM-CD	D29	DC	CP	SANTA MARIA, CA	BLANK0000127506	222.8
	K300M-D	D30	LD	LIC	MONTEREY, CA	BLANK0000179227	26.6
	KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	153.8

Service area	Terrain-limited	IX-free	Percent IX
10966.4	785,643	7852.4	644,137
		7292.5	630,095
			7.13
			2.18

Undesired	Total IX	Unique IX	Prcnt Unique IX
KMMD-CD D28 DC LIC	464.8	8,425	423.8
KBCW D28 DT LIC	1.0	0	0.0
KMSG-LD D29 LD LIC	2.0	0	0.0
KPIX-TV D29 DT LIC	109.1	2,814	71.1
K300M-D D30 LD LIC	42.0	6,140	12.0
KQED D30 DT LIC	1.0	0	0.0