

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KMBY 4 X 2 ANT, Model: Longley-Rice
Start: 2023.05.05 08:24:31

Study last edited: 2023.05.05 08:24:28

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.

Proposal "before": (none)

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	0.7 km
KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987	153.8
KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK0000212264	153.8
K300M-D	D30	LD	LIC	MONTEREY, CA	BLANK0000179227	26.6
KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	153.8

Record parameters as studied:

Channel: D29
Mask: Full Service
Latitude: 36 32 17.80 N (NAD83)
Longitude: 121 37 34.70 W
Height AMSL: 1002.0 m
HAAT: 694.4 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	953.3 m	71.7 km
45.0	0.618	933.2	53.9
90.0	0.087	883.6	40.6
135.0	0.156	149.7	24.3
180.0	0.794	515.9	48.2
225.0	9.82	604.0	65.9
270.0	9.96	732.9	69.0
315.0	10.0	782.8	70.0

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
	KPJK	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	8689.3	643,514	0.28	0.09
Undesired		Total IX		Unique IX, before		Unique IX, after			
KMBY-LD D29 LD CP	25.1	582				24.1	582		
KPJK D27 DT LIC	2.0	0		0.0	0	0.0	0		
KBCW D28 DT LIC	168.2	5,537		152.2	4,527	151.2	4,527		
KMPH-TV D28 DT LIC	105.0	0		92.0	0	92.0	0		
KPIX-TV D29 DT LIC	3.0	1,010		0.0	0	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	BLDTA20100914AHF	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	0.0	0		
KMMD-CD D28 DC LIC	1988.5	55,575		1841.7	23,978	1819.7	23,978		
KMPH-TV D28 DT LIC	1320.1	385,361		151.8	28,681	151.8	28,681		
KKPM-CD D28+ DC LIC	2772.2	560,684		1574.8	195,397	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	31902.6	7,351,118	3.76	0.18
Undesired		Total IX		Unique IX, before		Unique IX, after			
KMBY-LD D29 LD CP	1640.9	16,212				1247.1	12,923		
KMMD-CD D28 DC LIC	409.7	4,370		409.7	4,370	18.0	1,081		
KKPM-CD D28+ DC LIC	11.0	842		11.0	842	11.0	842		
KQED D30 DT LIC	12.1	2,189		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	0.0	0		
KFSN-TV D30 DT LIC	138.7	61		121.6	25	121.6	25		
KQED D30 DT LIC	163.7	23,967		144.8	23,927	139.8	13,466		
KTVU D31 DT LIC	9.0	4		0.0	0	0.0	0		
K310L-D D31 LD LIC	34.1	147		18.1	147	1.0	0		

Interference to BLANK0000040845 LIC scenario 1

Desired:	Call KQED	Chan D30	Svc DT	Status LIC	City, State SAN FRANCISCO, CA	File Number BLANK0000040845	Distance		
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	BLANK00000141547	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
2.21% interference received

Desired:	Call KMBY-LD	Chan D29	Svc LD	Status CP	City, State Monterey, CA	File Number KMBY 4 X 2 ANT	Distance		
Undesireds:	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	0.7 km		
	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK00000112987	153.8		
	KMSG-LD	D29	LD	LIC	FRESNO, CA	BLANK0000068538	210.2		
	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK00000212264	153.8		
	KQMM-CD	D29	DC	CP	SANTA MARIA, CA	BLANK00000127506	222.8		
	K300M-D	D30	LD	LIC	MONTEREY, CA	BLANK00000179227	26.6		
	KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	153.8		
Service area		Terrain-limited		IX-free		Percent IX			
10938.3 785,641		7834.3 644,137		7276.5 629,897		7.12 2.21			
Undesired				Total IX	Unique IX		Prcnt Unique IX		
KMMD-CD D28 DC LIC				463.8 8,614	421.8 6,794		5.38 1.05		
KBCW D28 DT LIC				1.0 0	0.0 0		0.00 0.00		
KMSG-LD D29 LD LIC				2.0 0	0.0 0		0.00 0.00		
KPIX-TV D29 DT LIC				108.1 2,814	70.1 737		0.89 0.11		
K300M-D D30 LD LIC				42.0 6,149	13.0 3,730		0.17 0.58		
KQED D30 DT LIC				1.0 0	0.0 0		0.00 0.00		