

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KMBY CH 29, Model: Longley-Rice
Start: 2022.10.20 17:00:31

Study created: 2022.10.20 17:00:31

Study build station data: LMS TV 2022-10-15

Proposal: KMBY-LD D29 LD LIC MONTEREY, CA
File number: KMBY CH 29
Facility ID: 168787
Station data: User record
Record ID: 115
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	KQMD-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	BLANK0000159327	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	K30OM-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: 979.9 m
HAAT: 672.3 m
Peak ERP: 15.0 kW
Antenna: KAT-K72314 PEANUT ARRAY (ID 118159) 325.0 deg
Elev Pattern: Generic
Elec Tilt: 0.50

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.07 kW	931.2 m	70.2 km
45.0	1.45	911.1	59.1
90.0	4.13	861.5	65.3
135.0	13.4	127.6	45.5
180.0	7.07	493.8	60.7
225.0	1.45	581.9	53.2
270.0	4.13	710.8	62.6
315.0	13.4	760.7	71.5

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: 0.50 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:	KQMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	
Undesireds:	KMBY-LD	D29	LD	LIC	MONTEREY, CA	kmby ch 33	0.7 km
	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	BLANK0000159327	154.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
12094.5	783,926	9338.5	654,659	9157.3	647,198	9150.3	647,044	0.08	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
KMBY-LD D29 LD LIC		9.0	154			7.0	154		
KBCW D28 DT LIC		128.1	7,461	123.1	7,461	121.1	7,461		
KMPH-TV D28 DT LIC		57.0	0	53.0	0	53.0	0		
KPIX-TV D29 DT LIC		1.0	0	0.0	0	0.0	0		

Interference to BLANK0000112987 LIC scenario 1

Desired:	Call KBCW	Chan D28	Svc DT	Status LIC	City, State SAN FRANCISCO, CA	File Number BLANK0000112987	Distance
Undesireds:	KMBY-LD	D29	LD	LIC	MONTEREY, CA	kmby ch 33	153.8 km
	KBTW-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	34087.6	7,293,449	29815.7	6,826,452	29814.7 6,826,286	0.00 0.00
Undesired	Total IX			Unique IX, before		Unique IX, after	
KMBY-LD D29 LD LIC	60.0	393		1.0		166	
KBTW-CD D27 DC LIC	10.0	8		0.0 0		0.0 0	
KMMD-CD D28 DC LIC	1819.2	46,187		1728.6 18,064		1675.6 17,968	
KMPH-TV D28 DT LIC	1182.4	336,803		81.9 14,618		81.9 14,618	
KKPM-CD D28+ DC LIC	2447.3	434,279		1331.8 111,593		1331.8 111,593	

Interference to BLANK0000159327 LIC scenario 1

Desired:	Call KPIX-TV	Chan D29	Svc DT	Status LIC	City, State SAN FRANCISCO, CA	File Number BLANK0000159327	Distance	
Undesireds:	KMBY-LD	D29	LD	LIC	MONTEREY, CA	kmby ch 33	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	33934.4	7,260,206	33563.8	7,252,227	32574.7	7,239,310	2.95 0.18
Undesired	Total IX			Unique IX, before		Unique IX, after		
KMBY-LD D29 LD LIC	1333.7			16,916		989.1		12,917
KMMD-CD D28 DC LIC	351.6			4,398		9.0		399
KKPM-CD D28+ DC LIC	10.0			3,317		10.0		3,317
KQED D30 DT LIC	9.0			264		7.0		264

Interference to BLANK0000179227 LIC scenario 1

Desired:	Call K300M-D	Chan D30	Svc LD	Status LIC	City, State MONTEREY, CA	File Number BLANK0000179227	Distance		
Undesireds:	KMBY-LD	D29	LD	LIC	MONTEREY, CA	kmby ch 33	26.6 km		
	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		
	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	7337.5		764,592	7133.8	751,325	7133.8	751,325	0.00 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
KMBY-LD	D29	LD	LIC	12.0	674		0.0	0	
KFSN-TV	D30	DT	LIC	79.8	25	71.8	25	71.8	25
KQED	D30	DT	LIC	104.8	12,361	104.8	12,361	104.8	12,361
K310L-D	D31	LD	LIC	27.1	881	19.1	881	12.1	207

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	LIC	MONTEREY, CA	kmby ch 33	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	32565.0	7,192,336	30637.3	6,871,698	30634.3	6,871,532	0.01	0.00
Undesired	Total IX			Unique IX, before		Unique IX, after			
KMBY-LD D29 LD LIC	3.0 166					3.0 166			
KFSN-TV D30 DT LIC	1370.3 273,926			246.2 25,585		246.2 25,585			
KCVU D30 DT LIC	1681.5 295,053			557.4 46,712		557.4 46,712			

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMBY-LD	D29	LD	LIC	MONTEREY, CA	kmby ch 33	
Undesireds:	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	0.7 km

KMSG-LD	D29	LD	LIC	FRESNO, CA	BLANK0000068538	210.2
KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK0000159327	153.8
KQMM-CD	D29	DC	CP	SANTA MARIA, CA	BLANK0000127506	222.8
K300M-D	D30	LD	LIC	MONTEREY, CA	BLANK0000179227	26.6
Service area	802,613	Terrain-limited	9377.8	661,160	IX-free	650,987
12221.2				9206.5		Percent IX
					1.83	1.54
Undesired			Total IX		Unique IX	Prcnt Unique IX
KMMD-CD D28 DC LIC	85.2		8,007	68.2	5,832	0.73 0.88
KMSG-LD D29 LD LIC	16.0		0	14.0	0	0.15 0.00
KPIX-TV D29 DT LIC	76.0		3,969	50.0	1,289	0.53 0.19
KQMM-CD D29 DC CP	1.0		0	1.0	0	0.01 0.00
K300M-D D30 LD LIC	27.0		1,084	6.0	194	0.06 0.03

Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMBY-LD	D29	LD	LIC	MONTEREY, CA	kmby ch 33	
Undesireds:	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	0.7 km
	KMSG-LD	D29	LD	LIC	FRESNO, CA	BLANK0000068538	210.2
	KPIX-TV	D29	DT	LIC	SAN FRANCISCO, CA	BLANK0000159327	153.8
	KQMM-CD	D29	DC	LIC	SANTA MARIA, CA	BLDTL20080423AEG	222.8
	K300M-LD	D30	LD	LIC	MONTEREY, CA	BLANK0000179227	26.6
Service area	802,613	Terrain-limited	9377.8	661,160	IX-free	650,987	Percent IX
12221.2				9206.5		1.83	1.54
Undesired			Total IX		Unique IX	Prcnt Unique IX	
KMMD-CD D28 DC LIC	85.2		8,007	68.2	5,832	0.73	0.88
KMSG-LD D29 LD LIC	16.0		0	14.0	0	0.15	0.00
KPIX-TV D29 DT LIC	76.0		3,969	50.0	1,289	0.53	0.19
KQMM-CD D29 DC LIC	1.0		0	1.0	0	0.01	0.00
K300M-D D30 LD LIC	27.0		1,084	6.0	194	0.06	0.03