

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KMBY DISPLACEMENT, Model: Longley-Rice  
Start: 2022.10.17 11:39:35

Study created: 2022.10.17 11:39:35

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

Proposal: KMBY-LD D19 LD LIC MONTEREY, CA  
File number: BLDTL20100520ADV  
Facility ID: 168787  
Station data: LMS TV 2022-10-15  
Record ID: 72b03100ae3647e7b693cf6212b6c0ea  
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	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	192.9 km
No	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	210.2
No	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	298.4
No	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	286.8
No	KXCH-LD	D19	LD	LIC	CHICO, CA	BLANK0000122016	357.3
No	KXCH-LD	D19	LD	CP	CHICO, CA	BLANK0000198552	357.3
No	K19NB-D	D19	LD	LIC	GUSTINE, CA	BLANK0000194137	92.2
No	K19IS-D	D19	LD	LIC	INYOKERN, CA	BLDTT20140804ADU	373.5
No	KFLA-LD	D19	LD	APP	LOS ANGELES, CA	BLANK0000135240	412.3
Yes	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	179.9
No	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	241.5
Yes	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	109.0
No	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	222.7
No	K51AQ-D	D19	LD	CP	UKIAH, CA	BLANK0000081270	314.2
No	K19MK-D	D19	LD	LIC	LAKE TAHOE, NV	BLANK0000090529	342.9
No	K19LS-D	D19	LD	LIC	WALKER LAKE, NV	BLANK0000062104	353.8
No	K19MJ-D	D19	LD	LIC	YERINGTON, NV	BLANK0000090532	343.3
No	K2000-D	D20	LD	LIC	CERES, CA	BLANK0000168051	125.2
No	KSEE	D20	DT	LIC	FRESNO, CA	BLANK0000191059	204.5
Yes	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	109.0
No	KWSM-LD	D20	LD	LIC	SANTA MARIA, CA	BLANK0000068514	222.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19  
Mask: Stringent  
Latitude: 36 32 17.80 N (NAD83)  
Longitude: 121 37 34.70 W  
Height AMSL: 979.9 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: AND-ALP12L2-HSH (ID 16384) 55.0 deg  
Elev Pattern: Generic  
Elec Tilt: 0.50

49.3 dBu contour:	Azimuth	ERP	HAAT	Distance
0.0 deg	0.0	6.98 kW	931.2 m	71.7 km
45.0	0.843		911.1	57.0
90.0	2.02		861.5	62.0
135.0	14.0		127.6	46.9
180.0	7.38		493.8	62.3
225.0	0.923		581.9	51.8
270.0	2.25		710.8	60.1
315.0	14.2		760.7	73.6

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 672 m

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

No land mobile station failures found

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%

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## Interference to BLANK0000063112 LIC scenario 1

Desired:	Call KMPH-CD	Chan D19	Svc DC	Status LIC	City, State MERCED-MARIPOSA, CA	File Number BLANK0000063112	Distance
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	179.9 km
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	109.5
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	264.4
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	182.0
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	162.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	291.9
	KSEE	D20	DT	LIC	FRESNO, CA	BLANK0000191059	73.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9753.9		307,455		8473.8		297,743	0.15 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMBY-LD D19 LD LIC		22.3		0		12.2	0
KFAZ-CA D18 DC LIC		17.0		51		1.0	51
KBBV-CD D19 DC LIC		51.1		641		17.1	148
KMUM-CD D19 DC LIC		9.1		0		4.0	0
KSTS D19 DT LIC		34.4		250		17.3	0
KCOY-TV D19 DT LIC		3.0		248		1.0	0
KSEE D20 DT LIC		55.9		445		28.0	200

## Interference to BLANK0000063112 LIC scenario 2

Desired:	Call KMPH-CD	Chan D19	Svc DC	Status LIC	City, State MERCED-MARIPOSA, CA	File Number BLANK0000063112	Distance
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	179.9 km
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	109.5
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	259.7
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	182.0
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	162.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	291.9
	KSEE	D20	DT	LIC	FRESNO, CA	BLANK0000191059	73.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9753.9		307,455		8473.8		297,862	0.16 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMBY-LD D19 LD LIC		22.3		0		13.2	0
KFAZ-CA D18 DC LIC		17.0		51		1.0	51
KBBV-CD D19 DC CP		29.1		29		6.0	29
KMUM-CD D19 DC LIC		9.1		0		5.1	0
KSTS D19 DT LIC		34.4		250		16.3	0
KCOY-TV D19 DT LIC		3.0		248		0.0	0
KSEE D20 DT LIC		55.9		445		32.0	443

## Interference to BLANK0000112998 LIC scenario 1

\*\*IX: 5.12% interference caused

Desired:	Call KSTS	Chan D19	Svc DT	Status LIC	City, State SAN JOSE, CA	File Number BLANK0000112998	Distance
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	109.0 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	122.0
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	371.1
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	144.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
39610.0		8,361,669		31987.9		6,653,550	27.30 5.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMBY-LD D19 LD LIC		8703.6		389,017		8221.4	359,288
KUVS-DT D18 DT LIC		756.2		147,114		8.1	5
KBBV-CD D19 DC LIC		21.0		0		4.0	0
KMPH-CD D19 DC LIC		1189.7		202,920		260.8	22,125
KMUM-CD D19 DC LIC		1279.8		187,286		385.9	9,941
KCOY-TV D19 DT LIC		163.6		7,676		13.0	146
K20JX-D D20 DC CP		212.2		7,215		1.0	0

## Interference to BLANK0000112998 LIC scenario 2

\*\*IX: 5.12% interference caused

Desired:	Call KSTS	Chan D19	Svc DT	Status LIC	City, State SAN JOSE, CA	File Number BLANK0000112998	Distance
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	109.0 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	122.0
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	371.1
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
39610.0		8,361,669		31987.9		6,653,550	27.30 5.12
Undesired		Total IX		Unique IX, before		Unique IX, after	

KMBY-LD D19 LD LIC	8703.6	389,017			8222.4	359,291
KUVS-DT D18 DT LIC	756.2	147,114	13.2	10	8.1	5
KBBV-CD D19 DC LIC	21.0	0	5.0	0	4.0	0
KMPH-CD D19 DC LIC	1189.7	202,920	333.8	27,076	260.8	22,125
KMUM-CD D19 DC LIC	1279.8	187,286	429.1	13,351	400.9	10,302
KCOY-TV D19 DT LIC	163.6	7,676	160.5	7,676	13.0	146
K20JX-D D20 DC LIC	9.0	195	0.0	0	0.0	0

Interference to BLANK0000112998 LIC scenario 3  
 \*\*IX: 5.12% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	109.0 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	122.0
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	361.6
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	144.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
39610.0		8,361,669		31987.9		7,237,113	27.30 5.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMBY-LD D19 LD LIC	8703.6	389,017			8221.4	359,288	
KUVS-DT D18 DT LIC	756.2	147,114	12.2	5	8.1	5	
KBBV-CD D19 DC CP	5.0	0	1.0	0	0.0	0	
KMPH-CD D19 DC LIC	1189.7	202,920	344.8	27,076	269.8	22,125	
KMUM-CD D19 DC LIC	1279.8	187,286	409.0	12,925	385.9	9,941	
KCOY-TV D19 DT LIC	163.6	7,676	160.5	7,676	13.0	146	
K20JX-D D20 DC CP	212.2	7,215	2.0	3	1.0	0	

Interference to BLANK0000112998 LIC scenario 4  
 \*\*IX: 5.12% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	109.0 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	122.0
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	361.6
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK0000116698	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
39610.0		8,361,669		31987.9		7,237,113	27.30 5.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMBY-LD D19 LD LIC	8703.6	389,017			8222.4	359,291	
KUVS-DT D18 DT LIC	756.2	147,114	13.2	10	8.1	5	
KBBV-CD D19 DC CP	5.0	0	1.0	0	0.0	0	
KMPH-CD D19 DC LIC	1189.7	202,920	346.8	27,076	269.8	22,125	
KMUM-CD D19 DC LIC	1279.8	187,286	429.1	13,351	400.9	10,302	
KCOY-TV D19 DT LIC	163.6	7,676	160.5	7,676	13.0	146	
K20JX-D D20 DC LIC	9.0	195	0.0	0	0.0	0	

Interference to BLANK0000113449 LIC scenario 1  
 \*\*IX: 4.74% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	
Undesireds:	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	109.0 km
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	0.0
	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	307.3
	KSEE	D20	DT	LIC	FRESNO, CA	BLANK0000191059	221.5
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	144.5
	KNSN-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.6
	KSPX-TV	D21	DT	LIC	SACRAMENTO, CA	BLANK0000115705	89.3
	KCNZ-CD	D21z	DC	LIC	SAN FRANCISCO, CA	BLANK0000186215	53.8
	KMTP-TV	D21z	DT	LIC	SAN FRANCISCO, CA	BLANK0000137431	53.8
	KDTV-CD	D21	DC	LIC	SANTA ROSA, CA	BLANK0000112915	146.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
36787.6		7,962,275		30359.9		7,099,618	12.75 4.74
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMBY-LD D19 LD LIC	3980.0	322,939			3602.5	318,072	
KSTS D19 DT LIC	2.0	627	2.0	627	2.0	627	
KNVN D20 DT LIC	537.2	92,052	4.0	21	4.0	21	
KSEE D20 DT LIC	1737.0	268,263	622.4	35,301	246.9	30,434	
K20JX-D D20 DC CP	1184.7	271,564	90.8	16,728	90.8	16,728	
KSPX-TV D21 DT LIC	1238.5	267,451	31.2	16,418	31.2	16,418	
KCNZ-CD D21z DC LIC	79.6	49,737	23.3	12,520	23.3	12,520	
KMTP-TV D21z DT LIC	57.4	37,271	1.0	54	1.0	54	
KDTV-CD D21 DC LIC	34.2	18,751	24.2	6,680	24.2	6,680	

Interference to BLANK0000113449 LIC scenario 2  
 \*\*IX: 4.73% interference caused

Undesired	Total IX	Unique IX, before	Unique IX, after
KMBY-LD D19 LD LIC	3980.0	322,939	3602.5
KSTS D19 DT LIC	2.0	627	2.0
KNVN D20 DT LIC	537.2	92,052	4.0
KSEE D20 DT LIC	1737.0	268,263	38,807
K20JX-D D20 DC LIC	421.8	51,281	802
KSPX-TV D21 DT LIC	1238.5	267,451	52,159
KCNZ-CD D21z DT LIC	79.6	49,737	12,520
KMTP-TV D21z DT LIC	57.4	37,271	1.0
KDTV-CD D21 DT LIC	34.2	18,751	6,714

Desired:	Call KMBY-LD	Chan D19	Svc LD	Status LIC	City, State MONTEREY, CA	File Number BLDTL20100520ADV	Distance
Undesired:	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	298.4 km
	KXCH-LD	D19	LD	LIC	CHICO, CA	BLANK0000122016	357.3
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	179.9
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	109.0
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	222.7
	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	109.0

Service area				Terrain-limited		IX-free		Percent IX	
12116.5				814,185		9008.4		676,376	
						8743.9		659,826	
Undesired				Total IX		Unique IX		Prctn Unique IX	
KMPH-CD	D19	DC	LIC	30.1	0	25.1	0	0.28	0.00
KSTS	D19	DT	LIC	235.4	16,550	218.4	9,997	2.42	1.48
KCOY-TV	D19	DT	LIC	8.0	917	4.0	0	0.04	0.00
KDQV-DT	D20	DT	LIC	8.0	5,636	0.0	0	0.00	0.00