

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: aGus4d1kwSAM135T, Model: Longley-Rice

Start: 2022.06.10 16:32:33

Study created: 2022.06.10 16:32:32

Study build station data: LMS TV 2022-06-09 #122

Proposal: K04SF-D D4 LD APP GUSTINE, CA

Facility ID: 186673

Station data: User record

Record ID: 786

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	DKAAP-LP	N2z	TX	APP	SANTA CRUZ, CA	BLTVL20100721DAA	92.3 km
No	K25KY-D	N3+	TX	LIC	FRESNO, CA	BLTVL20060327AIS	132.7
No	KCSO-LD	D3	LD	LIC	SACRAMENTO, CA	BLANK0000024609	119.8
Yes	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	92.3
No	K03IZ-D	D3	LD	LIC	SALINAS, CA	BLANK0000164316	92.3
No	KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK0000022172	152.5
No	KURK-LD	D3	LD	CP	San Francisco, CA	BLANK0000080433	133.2
No	K04SB-D	D4	LD	LIC	BAKERSFIELD, CA	BLANK0000106976	290.6
No	K04QR-D	D4	LD	LIC	ESPARTO, CA	BLDVL20100714ABU	155.8
No	KWHY-TV	D4	DT	LIC	LOS ANGELES, CA	BLANK0000072085	433.6
No	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	250.1
No	K04QC-D	N4+	TX	LIC	PALERMO, CA	BLTVL20050114ADZ	250.1
Yes	K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	92.3
No	K04RS-D	D4	LD	LIC	Salinas, CA	BLANK0000113066	99.3
No	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK0000001344	152.5
No	KQSL-LD	D4	LD	CP	SAN RAFAEL, CA	BLANK0000191871	133.2
No	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	45.1
No	KRMF-LD	D4	LD	LIC	RENO, NV	BLDVL20140224ADC	282.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D4  
Mask: Stringent  
Latitude: 37 14 47.60 N (NAD83)  
Longitude: 121 5 7.50 W  
Height AMSL: 69.2 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 1.00 kW  
Antenna: SAMCO-SAM-137 (ID 1009391) 135.0 deg  
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.009 kW	22.1 m	8.3 km
45.0	0.000	43.4	5.5
90.0	0.226	40.2	21.0
135.0	1.00	32.6	26.3
180.0	0.226	-54.0	18.5
225.0	0.000	-246.0	4.6
270.0	0.009	-263.7	8.3
315.0	0.020	-89.2	10.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: -64 m

Distance to Canadian border: 1236.4 km

Distance to Mexican border: 613.7 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 312.2 degrees    Distance: 79.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 72.0 degrees Distance: 1408.2 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%

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Interference to BLANK0000170831 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	
Undesireds:	K04SF-D	D4	LD	APP	GUSTINE, CA		92.3 km
	KQRO-LD	D2	LD	LIC	MORGAN HILL, CA	BLANK0000001892	67.6
	K02QP-D	D2	LD	LIC	Planada, CA	BLANK00000040200	120.9
	K25KY-D	N3+	TX	LIC	FRESNO, CA	BLTVL20060327AIS	181.6
	KCSO-LD	D3	LD	LIC	SACRAMENTO, CA	BLANK00000024609	193.3
	KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK00000022172	177.0
	K04RS-D	D4	LD	CP	Salinas, CA	BLANK00000189633	0.1
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK00000001344	177.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	12228.3	1,540,335	11041.9	1,332,282	10403.5	872,921	10401.6	872,921	0.02 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
K04SF-D	D4	LD APP	12.0 0		2.0 0
KQRO-LD	D2	LD LIC	175.2 440,380	13.0 4,772	13.0 4,772
K25KY-D	N3+	TX LIC	46.0 0	21.0 0	21.0 0
KCSO-LD	D3	LD LIC	56.9 7,368	22.0 7	22.0 7
KURK-LD	D3	LD LIC	565.4 454,577	384.2 18,867	384.2 18,867

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Interference to BLANK0000170831 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	
Undesireds:	K04SF-D	D4	LD	APP	GUSTINE, CA		92.3 km
	KQRO-LD	D2	LD	LIC	MORGAN HILL, CA	BLANK0000001892	67.6
	K02QP-D	D2	LD	LIC	Planada, CA	BLANK00000040200	120.9
	K25KY-D	N3+	TX	LIC	FRESNO, CA	BLTVL20060327AIS	181.6
	KCSO-LD	D3	LD	LIC	SACRAMENTO, CA	BLANK00000024609	193.3
	KURK-LD	D3	LD	CP	San Francisco, CA	BLANK00000080433	154.4
	K04RS-D	D4	LD	CP	Salinas, CA	BLANK00000189633	0.1
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK00000001344	177.0
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	12228.3	1,540,335	11041.9	1,332,282	10545.0	874,665	0.02 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K04SF-D D4 LD APP		12.0		0		2.0	0
KQRO-LD D2 LD LIC		175.2		440,380	15.9	10,928	10,928
K25KY-D N3+ TX LIC		46.0		0	25.0	0	0
KCSO-LD D3 LD LIC		56.9		7,368	25.0	0	0
KURK-LD D3 LD CP		411.1		446,684	242.8	17,123	17,123

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Interference to BLANK0000189633 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	
Undesireds:	K04SF-D	D4	LD	APP	GUSTINE, CA		92.3 km
	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	0.1
	KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK00000022172	176.9
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK00000152604	325.4
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK00000001344	176.9
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK00000078016	134.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5411.7 763,534	5171.6 726,456	4886.5 680,920	4886.5 680,920	0.00 0.00

  

Undesired	Total IX	Unique IX, before	Unique IX, after
K04SF-D D4 LD APP	1.0 0	0.0 0	
K03IZ-D D3 LD CP	68.3 1,401	67.3 1,401	
KQSL-LD D4 LD LIC	215.8 44,135	212.8 44,120	
KBIS-LD D4 LD LIC	4.0 15	2.0 0	1.0 0

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Interference to BLANK0000189633 CP scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	
Undesireds: K04SF-D	D4	LD	APP	GUSTINE, CA		92.3 km
K03IZ-D	D3	LD	LIC	SALINAS, CA	BLANK0000164316	0.1
KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK0000022172	176.9
K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	325.4
KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK0000001344	176.9
KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	134.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5411.7 763,534	5171.6 726,456	4952.8 682,321	4952.8 682,321	0.00 0.00

  

Undesired	Total IX	Unique IX, before	Unique IX, after
K04SF-D D4 LD APP	1.0 0	0.0 0	
K03IZ-D D3 LD LIC	1.0 0	1.0 0	
KQSL-LD D4 LD LIC	215.8 44,135	213.8 44,120	
KBIS-LD D4 LD LIC	4.0 15	2.0 0	1.0 0

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Interference to BLANK0000189633 CP scenario 3

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	
Undesireds: K04SF-D	D4	LD	APP	GUSTINE, CA		92.3 km

K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	0.1
KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK0000022172	176.9
K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	325.4
KQSL-LD	D4	LD	CP	SAN RAFAEL, CA	BLANK0000191871	154.3
KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	134.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5411.7	763,534	5171.6	726,456	4904.4	691,982	4904.4	691,982	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K04SF-D	D4 LD APP	1.0	0	0.0	0	0.0	0
K03IZ-D	D3 LD CP	68.3	1,401	67.3	1,401	67.3	1,401
KQSL-LD	D4 LD CP	198.8	33,073	194.8	33,058	194.8	33,058
KBIS-LD	D4 LD LIC	4.0	15	1.0	0	1.0	0

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Interference to BLANK0000189633 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	
Undesireds:	K04SF-D	D4	LD	APP	GUSTINE, CA		92.3 km
	K03IZ-D	D3	LD	LIC	SALINAS, CA	BLANK0000164316	0.1
	KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK0000022172	176.9
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	325.4
	KQSL-LD	D4	LD	CP	SAN RAFAEL, CA	BLANK0000191871	154.3
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	134.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5411.7	763,534	5171.6	726,456	4970.7	693,383	4970.7	693,383	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K04SF-D	D4 LD APP	1.0	0	0.0	0	0.0	0
K03IZ-D	D3 LD LIC	1.0	0	1.0	0	1.0	0
KQSL-LD	D4 LD CP	198.8	33,073	195.8	33,058	195.8	33,058
KBIS-LD	D4 LD LIC	4.0	15	1.0	0	1.0	0

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Interference to proposal scenario 1  
23.81% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04SF-D	D4	LD	APP	GUSTINE, CA		
Undesireds:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK00000170831	92.3 km
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK00000152604	250.1
	K04RS-D	D4	LD	CP	Salinas, CA	BLANK00000189633	92.3
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK00000001344	152.5
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK00000078016	45.1

Service area		Terrain-limited		IX-free	Percent IX
670.6	9,972	660.7	9,893	440.4	7,537 33.34 23.81

Undesired		Total IX		Unique IX	Prcnt Unique IX
K04RS-D D4 LD CP	8.0	77	0.0	0	0.00 0.00
KBIS-LD D4 LD LIC	220.3	2,356	212.3	2,279	32.13 23.04

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Interference to proposal scenario 2  
23.81% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04SF-D	D4	LD	APP	GUSTINE, CA		
Undesireds:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK00000170831	92.3 km
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK00000152604	250.1
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK00000001344	152.5
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK00000078016	45.1

Service area		Terrain-limited		IX-free	Percent IX
670.6	9,972	660.7	9,893	440.4	7,537 33.34 23.81

Undesired		Total IX		Unique IX	Prcnt Unique IX
KBIS-LD D4 LD LIC	220.3	2,356	220.3	2,356	33.34 23.81