

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: Gustine4d3kwincSam137at135fA1, Model: Longley-Rice  
Start: 2022.05.11 21:28:45

Study created: 2022.05.11 21:28:44

Study build station data: LMS TV 2022-05-11

Proposal: K04SF-D D4 LD CP GUSTINE, CA  
Facility ID: 186673  
Station data: User record  
Record ID: 2072  
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	97.2 km
No	K25KY-D	N3+	TX	LIC	FRESNO, CA	BLTVL20060327AIS	125.6
No	KCSO-LD	D3	LD	LIC	SACRAMENTO, CA	BLANK0000024609	121.5
No	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK00000170831	97.2
No	K03IZ-D	D3	LD	LIC	SALINAS, CA	BLANK00000164316	97.2
No	KURK-LD	D3	LD	LIC	San Francisco, CA	BLANK0000022172	158.7
No	KURK-LD	D3	LD	CP	San Francisco, CA	BLANK0000080433	139.7
Yes	K04SB-D	D4	LD	LIC	BAKERSFIELD, CA	BLANK00000106976	285.7
No	K04QR-D	D4	LD	LIC	ESPARTO, CA	BLDVL20100714ABU	155.2
No	KWHY-TV	D4	DT	LIC	LOS ANGELES, CA	BLANK0000072085	429.4
No	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK00000152604	250.7
No	K04QC-D	N4+	TX	LIC	PALERMO, CA	BLTVL20050114ADZ	250.7
No	K04RS-D	D4	LD	CP	Salinas, CA	BLANK00000189633	97.2
No	K04RS-D	D4	LD	LIC	Salinas, CA	BLANK00000113066	104.9
No	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK00000001344	158.7
No	KQSL-LD	D4	LD	CP	SAN RAFAEL, CA	BLANK0000071757	139.7
No	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	44.0
No	KRMF-LD	D4	LD	LIC	RENO, NV	BLDVL20140224ADC	279.2

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: Full Service  
Latitude: 37 15 15.50 N (NAD83)  
Longitude: 120 59 57.60 W  
Height AMSL: 40.8 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 3.00 kW  
Antenna: SAMCO-SAM-137 (ID 1009391) 135.0 deg  
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.027 kW	18.5 m	11.0 km
45.0	0.003	18.2	6.1
90.0	0.677	17.9	23.7
135.0	3.00	16.2	31.2
180.0	0.677	5.2	23.7
225.0	0.003	-64.4	6.1
270.0	0.027	-59.2	11.0
315.0	0.059	-6.4	13.3

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: -7 m

Distance to Canadian border: 1236.7 km

Distance to Mexican border: 610.3 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 308.4 degrees    Distance: 84.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 72.0 degrees    Distance: 1400.7 km

Study cell size: 1.00 km  
Profile point spacing: 0.10 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 BLANK0000106976 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04SB-D	D4	LD	LIC	BAKERSFIELD, CA	BLANK0000106976	
Undesireds:	K04SF-D	D4	LD	CP	GUSTINE, CA		285.7 km
	K03IR-D	D3	LD	LIC	BAKERSFIELD, CA	BLANK0000151128	42.1
	K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	286.4

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New	
IX	7492.7	704,443	7399.9	703,126	7392.9	703,126	7392.0	703,126	0.01
0.00									

Undesired		Total IX	Unique IX, before	Unique IX, after
K04SF-D D4 LD CP	1.0	0	1.0	0
K03IR-D D3 LD LIC	7.0	0	7.0	0

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Interference to proposal scenario 1  
88.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04SF-D	D4	LD	CP	GUSTINE, CA		
Undesireds:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	97.2 km
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	250.7
	K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	97.2
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK0000001344	158.7
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	44.0

Service area		Terrain-limited		IX-free	Percent IX
985.7	58,449	941.7	56,755	382.6	6,729 59.38 88.14

Undesired		Total IX		Unique IX	Prcnt Unique IX
K04RS-D D4 LD CP	11.9	86	0.0	0	0.00 0.00
KQSL-LD D4 LD LIC	133.6	315	10.0	0	1.06 0.00
KBIS-LD D4 LD LIC	549.2	50,026	413.7	49,625	43.93 87.44

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Interference to proposal scenario 2  
88.14% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K04SF-D	D4	LD	CP	GUSTINE, CA		
Undesireds:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	97.2 km
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	250.7
	KQSL-LD	D4	LD	LIC	SAN RAFAEL, CA	BLANK0000001344	158.7
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	44.0

Service area		Terrain-limited		IX-free	Percent IX
985.7	58,449	941.7	56,755	382.6	6,729 59.38 88.14

Undesired		Total IX		Unique IX	Prcnt Unique IX
KQSL-LD D4 LD LIC	133.6	315	10.0	0	1.06 0.00
KBIS-LD D4 LD LIC	549.2	50,026	425.6	49,711	45.19 87.59

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Interference to proposal scenario 3  
88.14% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K04SF-D	D4	LD	CP	GUSTINE, CA		
Undesireds:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	97.2 km
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	250.7
	K04RS-D	D4	LD	CP	Salinas, CA	BLANK0000189633	97.2
	KQSL-LD	D4	LD	CP	SAN RAFAEL, CA	BLANK0000071757	139.7
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	44.0

Service area		Terrain-limited		IX-free	Percent IX
985.7	58,449	941.7	56,755	392.5	6,729 58.32 88.14

Undesired		Total IX		Unique IX	Prcnt Unique IX
K04RS-D D4 LD CP	11.9	86	0.0	0	0.00 0.00
KQSL-LD D4 LD CP	6.0	0	0.0	0	0.00 0.00
KBIS-LD D4 LD LIC	549.2	50,026	531.3	49,940	56.42 87.99

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Interference to proposal scenario 4  
88.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04SF-D	D4	LD	CP	GUSTINE, CA		
Undesireds:	K03IZ-D	D3	LD	CP	SALINAS, CA	BLANK0000170831	97.2 km
	K04QC-D	D4+	LD	LIC	PALERMO, CA	BLANK0000152604	250.7
	KQSL-LD	D4	LD	CP	SAN RAFAEL, CA	BLANK0000071757	139.7
	KBIS-LD	D4	LD	LIC	TURLOCK, CA	BLANK0000078016	44.0

Service area		Terrain-limited		IX-free	Percent IX
985.7	58,449	941.7	56,755	392.5	6,729 58.32 88.14

Undesired		Total IX		Unique IX	Prcnt Unique IX
KQSL-LD D4 LD CP	6.0	0	0.0	0	0.00 0.00
KBIS-LD D4 LD LIC	549.2	50,026	543.2	50,026	57.68 88.14