

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Gustine19d3kwincEltiat140fA1, Model: Longley-Rice

Start: 2022.05.11 21:56:18

Study created: 2022.05.11 21:56:18

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

Proposal: K19NB-D D19 LD CP GUSTINE, CA

Facility ID: 186671

Station data: User record

Record ID: 2073

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	BLANK00000148149	99.0 km
No	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK00000001548	162.5
No	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	294.2
No	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK00000035842	285.7
No	K19FY-D	D19	LD	LIC	CHICO, CA	BLANK00000122016	285.3
No	K19FY-D	N19+	TX	LIC	CHICO, CA	BLTT20060109ABD	307.3
No	K19IS-D	D19	LD	LIC	INYOKERN, CA	BLDTT20140804ADU	356.3
No	KFLA-LD	D19	LD	APP	LOS ANGELES, CA	BLANK00000135240	428.0
Yes	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK00000063112	91.3
Yes	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	97.2
No	KMUM-CD	D19	DC	LIC	SACRAMENTO, CA	BLANK00000116698	166.9
Yes	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK00000112998	81.8
No	K28GY-D	D19	LD	CP	SANTA BARBARA, ETC., CA	BLANK00000054782	317.5
No	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	270.6
No	K19GA-D	D19	LD	LIC	SUSANVILLE, ETC, CA	BLDTT20110822AAE	359.1
No	K51AQ-D	D19	LD	CP	UKIAH, CA	BLANK00000081270	276.3
No	K19MK-D	D19	LD	LIC	LAKE TAHOE, NV	BLANK00000090529	247.7
No	K19NG-D	D19	LD	CP	LOVELOCK, NV	BLANK00000157110	374.3
No	K19LS-D	D19	LD	LIC	WALKER LAKE, NV	BLANK00000062104	260.6
No	K19MJ-D	D19	LD	LIC	YERINGTON, NV	BLANK00000090532	246.2
No	K20OO-D	D20	LD	LIC	CERES, CA	BLANK00000168051	28.5

No	KSEE	D20	DT	LIC	FRESNO, CA	BLANK0000116952	140.8
No	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	155.2
No	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	177.7
No	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	81.8

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: 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: ELTI-ELTI UHF Panel (ID 1008435) 140.0 deg
Elev Pattnr: Generic

49.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.016 kW	18.5 m	6.7 km
45.0	0.003	18.2	4.4
90.0	0.454	17.9	15.3
135.0	2.87	16.2	23.6
180.0	0.846	5.2	17.9
225.0	0.005	-64.4	5.0
270.0	0.024	-59.2	7.4
315.0	0.007	-6.4	5.4

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

No land mobile station failures found

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 BLANK0000063112 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	
Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		91.3 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	BLANK0000116952	73.9

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX								
9753.9	307,455		8872.0	300,077	8810.8	299,689	8789.5 299,575	0.24
0.04								

Undesired				Total IX	Unique IX, before	Unique IX, after
K19NB-D	D19	LD	CP	37.4 114		21.3 114
KFAZ-CA	D18	DC	LIC	5.0 137	0.0 0	0.0 0
KBBV-CD	D19	DC	LIC	26.0 39	7.0 0	5.0 0
KMUM-CD	D19	DC	LIC	4.1 0	2.0 0	2.0 0

KSTS D19 DT LIC	16.2	51	13.2	51	6.1	51
KCOY-TV D19 DT LIC	1.0	0	0.0	0	0.0	0
KSEE D20 DT LIC	36.0	337	17.0	200	17.0	200

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Interference to BLANK0000063112 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	
Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		91.3 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	BLANK0000116952	73.9

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
9753.9	307,455	8872.0	300,077	8814.8	299,667
0.04				8791.5	299,553
					0.26

Undesired	Total IX	Unique IX, before	Unique IX, after
K19NB-D D19 LD CP	37.4	114	23.3
KFAZ-CA D18 DC LIC	5.0	137	0.0
KBBV-CD D19 DC CP	10.0	22	3.0
KMUM-CD D19 DC LIC	4.1	0	2.0
KSTS D19 DT LIC	16.2	51	6.1
KCOY-TV D19 DT LIC	1.0	0	0.0
KSEE D20 DT LIC	36.0	337	24.0

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Interference to BLDLTL20100520ADV LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDLTL20100520ADV	
Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		97.2 km

KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	298.4
K19FY-D	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
KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	109.0

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
12116.5 0.00	814,185	9824.5	670,605	9733.4	665,719
				9732.4	665,719
					0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
K19NB-D D19 LD CP	1.0	0	1.0
KMPH-CD D19 DC LIC	5.0	0	5.0
KSTS D19 DT LIC	86.0	4,886	81.1
KDTV-DT D20 DT LIC	5.0	0	0.0

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 Interference to BLANK0000112998 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	
Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		81.8 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

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
39610.0 0.00	8,361,669	32639.2	7,242,360	31232.0	7,043,322
				31224.0	7,043,322
					0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
K19NB-D D19 LD CP	30.1	0	8.0
KUVS-DT D18 DT LIC	663.0	151,459	9.1
KBBV-CD D19 DC LIC	7.0	10	3.0

KMPH-CD	D19	DC	LIC	721.0	163,406	205.8	11,842	197.8	11,842
KMUM-CD	D19	DC	LIC	1039.5	183,087	286.0	24,139	285.0	24,139
KCOY-TV	D19	DT	LIC	98.3	2,815	98.3	2,815	98.3	2,815
K20JX-D	D20	DC	CP	177.0	5,519	4.0	88	4.0	88

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Interference to BLANK0000112998 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	
Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		81.8 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

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
39610.0	8,361,669	32639.2	7,242,360	31227.0	0.03
0.00					

Undesired	Total IX	Unique IX, before	Unique IX, after
K19NB-D D19 LD CP	30.1	0	8.0
KUVS-DT D18 DT LIC	663.0	151,459	10.1
KBBV-CD D19 DC LIC	7.0	10	3.0
KMPH-CD D19 DC LIC	721.0	163,406	205.8
KMUM-CD D19 DC LIC	1039.5	183,087	243.3
KCOY-TV D19 DT LIC	98.3	2,815	98.3
K20JX-D D20 DC LIC	1.0	54	1.0

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Interference to BLANK0000112998 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	

Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		81.8 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	32639.2	7,242,360	31235.0	7,043,322	31226.0	7,043,322	0.03
0.00								

Undesired		Total IX	Unique IX, before	Unique IX, after
K19NB-D D19 LD CP	30.1	0	9.0	0
KUVS-DT D18 DT LIC	663.0	151,459	9.1	5
KBBV-CD D19 DC CP	2.0	0	0.0	0
KMPH-CD D19 DC LIC	721.0	163,406	208.8	11,852
KMUM-CD D19 DC LIC	1039.5	183,087	286.0	24,139
KCOY-TV D19 DT LIC	98.3	2,815	98.3	2,815
K20JX-D D20 DC CP	177.0	5,519	4.0	88

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Interference to BLANK0000112998 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	
Undesireds:	K19NB-D	D19	LD	CP	GUSTINE, CA		81.8 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	32639.2	7,242,360	31238.0	7,043,356	31229.0	7,043,356	0.03
0.00								

Undesired			Total IX	Unique IX, before		Unique IX, after	
K19NB-D D19 LD CP	30.1		0			9.0	0
KUVS-DT D18 DT LIC	663.0		151,459	10.1	5	10.1	5
KBBV-CD D19 DC CP	2.0		0	0.0	0	0.0	0
KMPH-CD D19 DC LIC	721.0		163,406	208.8	11,852	199.8	11,852
KMUM-CD D19 DC LIC	1039.5		183,087	343.3	24,953	342.3	24,953
KCOY-TV D19 DT LIC	98.3		2,815	98.3	2,815	98.3	2,815
K20JX-D D20 DC LIC	1.0		54	1.0	54	1.0	54

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Interference to proposal scenario 1
44.08% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K19NB-D	D19	LD	CP	GUSTINE, CA		
Undesireds:	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	294.2 km
	K19FY-D	D19	LD	LIC	CHICO, CA	BLANK0000122016	285.3
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	91.3

Service area		Terrain-limited		IX-free	Percent IX
509.2	10,528	509.2	10,528	169.3	5,887
				66.75	44.08

Undesired		Total IX	Unique IX	Prcnt Unique IX
KMPH-CD D19 DC LIC	339.9	4,641	339.9	4,641
			66.75	44.08