

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Mod27d15kwIncF, Model: Longley-Rice

Start: 2023.07.17 11:48:52

Study created: 2023.07.17 11:48:52

Study build station data: LMS TV 2023-07-17

Proposal: K27PE-D D27 LD APP GUSTINE, CA

Facility ID: 186672

Station data: User record

Record ID: 1635

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	KTVU	D26	LD	LIC	OAKLAND, CA	BLANK0000087000	76.4 km
No	KVBC-LP	D26	LD	LIC	REEDLEY, CA	BLDTL20140403ABH	154.6
No	KDJT-CD	D26	DC	LIC	SALINAS/MONTEREY,ETC, CA	BLANK0000159177	108.0
No	KUKR-LD	D26	LD	LIC	Santa Rosa, CA	BLANK0000145103	172.3
Yes	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLC DT20110819ABS	77.8
No	KREN-TV	D26	DT	LIC	RENO, NV	BLC DT20090227AAM	209.8
No	KEBK-LD	D27	LD	LIC	BAKERSFIELD, CA	BLANK0000117286	326.5
No	KUCO-LD	D27	LD	LIC	CHICO, CA	BLANK0000069322	263.9
Yes	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000190993	154.7
No	KYMB-LD	D27	LD	LIC	MONTEREY, CA	BLANK0000214726	134.6
No	K42JQ-D	D27	LD	LIC	REDDING, CA	BLANK0000198034	349.3
No	K42JQ-D	D27	LD	CP	REDDING, CA	BLANK0000197239	349.3
Yes	KBTv-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	109.4
Yes	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	126.2
No	KEYT-TV	D27	DT	LIC	SANTA BARBARA, CA	BLC DT20061102ABJ	360.2
No	K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050	316.1
No	K27EE-D	D27	LD	LIC	UKIAH, CA	BLDTL20120509AFS	243.1
No	KXNV-LD	D27	LD	LIC	INCLINE VILLAGE, NV	BLANK0000162739	209.8

No	KXNV-LD	D27	LD	CP	INCLINE VILLAGE, NV	BDISDTL20110329AAJ	209.5
No	K27OI-D	D27	LD	LIC	MINA / LUNING, NV	BLANK0000071520	273.1
No	K27OD-D	D27	LD	LIC	VERDI/MOGUL, NV	BLANK0000200948	234.0
No	KQRM-LD	D28z	LD	LIC	PETALUMA, CA	BLANK0000068353	124.2
No	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	134.7
Yes	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987	126.2
No	KMPH-TV	D28	DT	LIC	VISALIA, CA	BLANK0000200287	219.2
No	KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000214663	186.3
No	KKPM-CD	D28+	DC	LIC	YUBA CITY, CA	BLDTA20100914AHF	186.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27  
 Mask: Full Service  
 Latitude: 37 38 59.40 N (NAD83)  
 Longitude: 121 1 27.30 W  
 Height AMSL: 131.4 m  
 HAAT: 0.0 m  
 Peak ERP: 15.0 kW  
 Antenna: Omnidirectional  
 Elev Pattn: Generic

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	102.9 m	44.2 km
45.0	15.0	94.4	43.1
90.0	15.0	96.8	43.4
135.0	15.0	103.4	44.2
180.0	15.0	110.8	45.0
225.0	15.0	114.4	45.3
270.0	15.0	116.1	45.4
315.0	15.0	111.4	45.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 106 m

Distance to Canadian border: 1192.9 km

Distance to Mexican border: 648.8 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 277.6 degrees    Distance: 64.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 73.7 degrees    Distance: 1389.8 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 BLCDT20110819ABS LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	
Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		77.8 km
	KOVR	D25	DT	LIC	STOCKTON, CA	BLANK00000147726	0.0
	KUVI-DT	D26	DT	LIC	BAKERSFIELD, CA	BLANK00000081232	396.6
	KDJT-CD	D26	DC	LIC	SALINAS/MONTEREY,ETC, CA	BLANK00000159177	164.9
	KREN-TV	D26	DT	LIC	RENO, NV	BLCDT20090227AAM	184.0
	KBTB-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	36.3
	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK00000108410	99.2
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35381.5	6,977,392	32500.9	5,352,930	31647.7	5,197,763	31642.7    5,197,749	0.02    0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K27PE-D D27 LD APP	25.0	65		5.0 14
KOVR D25 DT LIC	25.1	3,209	25.1 3,209	25.1 3,209
KUVI-DT D26 DT LIC	14.0	19	1.0 0	1.0 0
KDJT-CD D26 DC LIC	167.7	2,429	104.2 1,545	99.1 1,505
KREN-TV D26 DT LIC	534.9	145,847	237.5 129,969	231.5 129,969
KBTV-CD D27 DC LIC	44.0	3,415	41.9 3,415	41.9 3,415
KPJK D27 DT LIC	410.4	16,766	137.0 511	137.0 511

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Interference to BLANK0000190993 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000190993	
Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		154.7 km
	KBTV-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	244.9
	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	277.3
	KEYT-TV	D27	DT	LIC	SANTA BARBARA, CA	BLCDT20061102ABJ	287.0
	KMPH-TV	D28	DT	LIC	VISALIA, CA	BLANK0000200287	66.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	34075.1 1,825,003	31509.2	1,805,758	31193.4	1,800,123	30681.6 1,791,454	1.64 0.48

Undesired		Total IX	Unique IX, before	Unique IX, after
K27PE-D D27 LD APP	656.5	8,988		511.8 8,669
KBTV-CD D27 DC LIC	18.2	39	8.1 0	5.1 0
KPJK D27 DT LIC	131.8	259	121.6 220	16.2 12
KEYT-TV D27 DT LIC	3.0	11	1.0 0	0.0 0
KMPH-TV D28 DT LIC	174.9	5,376	172.9 5,365	148.8 5,304

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Interference to BLDTA20140908ADO LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KBTV-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	

Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		109.4 km
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	36.3
	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	123.9
	KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000214663	76.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
2565.9	1,675,939	2559.9	1,673,840	2369.1	1,662,823	2369.1	1,662,823	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K27PE-D D27 LD APP	1.0	0		0.0 0
KTFK-DT D26 DT LIC	182.7	10,265	172.7 8,925	172.7 8,925
KPJK D27 DT LIC	18.0	2,092	8.0 752	8.0 752

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Interference to BLANK0000108410 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	
Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		126.2 km
	KDJT-CD	D26	DC	LIC	SALINAS/MONTEREY,ETC, CA	BLANK0000159177	139.3
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	99.2
	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000190993	277.3
	KBTv-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	123.9
	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	154.4
	KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000214663	170.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
33275.4	7,876,739	28490.7	6,845,528	27168.9	6,720,387	27119.6	6,719,756	0.18 0.01

Undesired		Total IX	Unique IX, before	Unique IX, after
K27PE-D D27 LD APP	963.0	103,080		49.3 631
KDJT-CD D26 DC LIC	10.0	2,078	8.0 2,078	8.0 2,078
KTFK-DT D26 DT LIC	1062.2	106,081	95.7 4,386	62.4 3,974
KNSO D27 DT LIC	818.0	106,339	66.6 12,390	29.2 12,036
KBTv-CD D27 DC LIC	681.5	50,754	47.3 1,143	24.1 173
KMMD-CD D28 DC LIC	135.7	3,449	118.7 3,449	117.7 3,449
KKPM-CD D28+ DC APP	31.1	144	0.0 0	0.0 0

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Interference to BLANK0000108410 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPKJ	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	
Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		126.2 km
	KDJT-CD	D26	DC	LIC	SALINAS/MONTEREY,ETC, CA	BLANK0000159177	139.3
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	99.2
	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000190993	277.3
	KBTv-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	123.9
	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	154.4
	KKPM-CD	D28+	DC	LIC	YUBA CITY, CA	BLDTA20100914AHF	170.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	33275.4	7,876,739	28490.7	6,845,528	27168.9	6,720,387	27119.6 6,719,756 0.18 0.01
Undesired				Total IX	Unique IX, before	Unique IX, after	
K27PE-D D27 LD APP		963.0		103,080		49.3 631	
KDJT-CD D26 DC LIC		10.0		2,078	8.0 2,078	8.0 2,078	
KTFK-DT D26 DT LIC		1062.2		106,081	95.7 4,386	62.4 3,974	
KNSO D27 DT LIC		818.0		106,339	66.6 12,390	29.2 12,036	
KBTv-CD D27 DC LIC		681.5		50,754	47.3 1,143	24.1 173	
KMMD-CD D28 DC LIC		135.7		3,449	118.7 3,449	117.7 3,449	
KKPM-CD D28+ DC LIC		31.1		144	0.0 0	0.0 0	

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Interference to BLANK0000112987 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987	
Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		126.2 km
	KBTv-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	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	APP	YUBA CITY, CA	BLANK0000214663	170.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39447.6	8,226,852	34377.3	7,216,656	30618.5	6,867,320	30618.5	6,867,320	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K27PE-D D27 LD APP	240.1	90,353				0.0	0
KBTv-CD D27 DC LIC	4.0	8		0.0	0	0.0	0
KMMD-CD D28 DC LIC	1618.8	46,496		1534.2	15,854	1534.2	15,854
KMPH-TV D28 DT LIC	1058.1	265,776		65.8	14,381	33.4	6,362
KKPM-CD D28+ DC APP	2148.7	319,101		1131.4	61,387	1130.4	61,387

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Interference to BLANK0000112987 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KBCW	D28	DT	LIC	SAN FRANCISCO, CA	BLANK0000112987	
Undesireds:	K27PE-D	D27	LD	APP	GUSTINE, CA		126.2 km
	KBTv-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	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	34377.3	7,216,656	30618.5	6,867,320	30618.5	6,867,320	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K27PE-D D27 LD APP	240.1	90,353				0.0	0
KBTv-CD D27 DC LIC	4.0	8		0.0	0	0.0	0
KMMD-CD D28 DC LIC	1618.8	46,496		1534.2	15,854	1534.2	15,854
KMPH-TV D28 DT LIC	1058.1	265,776		65.8	14,381	33.4	6,362
KKPM-CD D28+ DC LIC	2148.7	319,101		1131.4	61,387	1130.4	61,387

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Interference to proposal scenario 1  
32.54% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	K27PE-D	D27	LD	APP	GUSTINE, CA		
Undesireds:	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	77.8 km
	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK00000190993	154.7
	KBTv-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	109.4
	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK00000108410	126.2
	KXNV-LD	D27	LD	LIC	INCLINE VILLAGE, NV	BLANK00000162739	209.8
Service area		Terrain-limited		IX-free		Percent IX	
6220.2	960,160	6148.2	959,458	4223.7	647,290	31.30	32.54
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KTFK-DT	D26 DT LIC	3.0	0	2.0	0	0.03	0.00
KNSO	D27 DT LIC	1910.3	312,167	1905.2	312,167	30.99	32.54
KBTv-CD	D27 DC LIC	2.0	0	1.0	0	0.02	0.00
KPJK	D27 DT LIC	15.2	1	10.1	1	0.16	0.00