

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: SLObisp18dlkwCL1469at170F, Model: Longley-Rice

Start: 2021.07.22 13:30:04

Study created: 2021.07.22 13:30:04

Study build station data: LMS TV 2021-07-22

Proposal: K39LG-D D18 LD APP SAN LUIS OBISPO, CA

Facility ID: 185725

Station data: User record

Record ID: 731

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	K17LX-D	D17	LD	LIC	BAKERSFIELD, CA	BLANK0000151129	136.2 km
No	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	119.0
No	K17JI-D	D17	DC	LIC	FRESNO, CA	BLANK0000124967	197.4
No	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	76.3
No	KLDF-CD	D17+	DC	CP	LOMPOC, CA	BLANK0000127525	76.3
Yes	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	28.1
No	K17KP-D	D17	LD	CP	SAN LUIS OBISPO, CA	BNPDTL20100423AAH	36.3
No	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	142.4
No	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078400	142.4
No	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	178.3
No	KPSP-CD	D18	DC	LIC	CATHEDRAL CITY, CA	BLANK0000075036	426.1
No	K18IM-D	D18	LD	LIC	Daggett, CA	BLANK0000004601	351.0
No	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK0000055430	274.8
Yes	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067	274.2
No	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLANK0000148149	302.8
No	K18JR-D	D18	LD	CP	MONTEREY, CA	BNPDTL20100426ABX	151.0
No	K18MP-D	D18	LD	LIC	RIDGECREST, CA	BLANK0000068886	274.1
No	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK0000005158	458.8

No	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	197.4
No	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	191.8
No	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	178.2
No	KMBY-LD	D19	LD	LIC	MONTEREY, CA	BLDTL20100520ADV	151.7
No	KSTS	D19	DT	LIC	SAN JOSE, CA	BLANK0000112998	256.1
No	K28GY-D	D19	LD	CP	SANTA BARBARA, ETC., CA	BLANK0000054782	118.2
No	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	71.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
Mask: Full Service
Latitude: 35 23 38.50 N (NAD83)
Longitude: 120 42 29.00 W
Height AMSL: 888.0 m
HAAT: 0.0 m
Peak ERP: 1.00 kW
Antenna: KAT-CL-1469B (ID 1007708) 170.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	537.9 m	6.2 km
45.0	0.000	503.9	6.0
90.0	0.000	504.8	6.1
135.0	0.242	347.5	37.0
180.0	0.897	730.0	54.5
225.0	0.002	799.9	20.1
270.0	0.000	760.3	6.5
315.0	0.000	504.0	6.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 586 m

Distance to Canadian border: 1445.0 km

Distance to Mexican border: 431.8 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 340.5 degrees Distance: 275.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 64.2 degrees Distance: 1453.6 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

Interference to BLANK0000001602 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	
Undesireds:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		28.1 km
	K17JI-D	D17	DC	LIC	FRESNO, CA	BLANK0000124967	178.9
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	103.9
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	166.3
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	5774.4 183,473	4518.5		116,591	4482.5 116,530	4481.5 116,529	0.02 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K39LG-D D18 LD APP	3.0	1		1.0 1
K17JI-D D17 DC LIC	21.0	4	20.0 4	20.0 4
KLDF-CD D17+ DC LIC	15.9	57	14.9 57	12.9 57

Interference to BLANK0000001602 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	
Undesireds:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		28.1 km
	K17JI-D	D17	DC	LIC	FRESNO, CA	BLANK00000124967	178.9
	KLDF-CD	D17+	DC	CP	LOMPOC, CA	BLANK00000127525	103.9
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK00000078274	166.3
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	5774.4 183,473	4518.5 116,591	4481.5 116,530	4480.5 116,529	0.02 0.00		

Undesired		Total IX	Unique IX, before	Unique IX, after
K39LG-D D18 LD APP	3.0	1		1.0 1
K17JI-D D17 DC LIC	21.0	4	20.0 4	20.0 4
KLDF-CD D17+ DC CP	16.9	57	15.9 57	13.9 57

Interference to BLANK00000129067 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK00000129067	
Undesireds:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		274.2 km
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK00000001615	225.8
	KNSD	D17	DT	LIC	SAN DIEGO, CA	BLANK00000068597	199.3
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK00000078274	152.4
	KPSP-CD	D18	DC	LIC	CATHEDRAL CITY, CA	BLANK00000075036	155.2
	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK00000005158	199.3
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK00000001548	301.3
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	144.9

KPBS	D19	DT	LIC	SAN DIEGO, CA		BLANK0000069249	199.3			
Service area			Terrain-limited		IX-free, before	IX-free, after	Percent New IX			
41083.4	17,448,421		31952.5	16,449,836	28766.6	16,034,214	28762.6	16,034,214	0.01	0.00
Undesired			Total IX		Unique IX, before		Unique IX, after			
K39LG-D D18 LD APP		4.0		0			4.0		0	
KNSD D17 DT LIC		116.3		16,027	0.0	0	0.0		0	
KPSP-CD D18 DC LIC		44.5		6,041	42.5	6,036	42.5		6,036	
KUSI-TV D18 DT LIC		3135.5		409,574	3012.2	393,542	3012.2		393,542	
KFAZ-CA D18 DC LIC		9.0		12	5.0	12	5.0		12	
KPBS D19 DT LIC		118.3		16,027	2.0	0	2.0		0	

Interference to BLANK0000129067 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067				
Undesireds:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		274.2 km			
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	225.8			
	KNSD	D17	DT	LIC	SAN DIEGO, CA	BLANK00000068597	199.3			
	KSBBCD	D17	DC	LIC	SANTA BARBARA, CA	BLANK00000078274	152.4			
	KPSP-CD	D18	DC	LIC	CATHEDRAL CITY, CA	BLANK00000075036	155.2			
	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK00000005158	199.3			
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK00000001548	301.3			
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK00000035842	148.4			
	KPBS	D19	DT	LIC	SAN DIEGO, CA	BLANK00000069249	199.3			
Service area			Terrain-limited		IX-free, before	IX-free, after	Percent New IX			
41083.4	17,448,421		31952.5	16,449,836	28763.6	16,034,214	28759.6	16,034,214	0.01	0.00
Undesired			Total IX		Unique IX, before		Unique IX, after			
K39LG-D D18 LD APP		4.0		0			4.0		0	
KNSD D17 DT LIC		116.3		16,027	0.0	0	0.0		0	
KPSP-CD D18 DC LIC		44.5		6,041	42.5	6,036	42.5		6,036	
KUSI-TV D18 DT LIC		3135.5		409,574	3009.2	393,542	3009.2		393,542	
KFAZ-CA D18 DC LIC		9.0		12	2.0	0	2.0		0	

KBBV-CD D19 DC CP	13.0	12	3.0	0	3.0	0
KPBS D19 DT LIC	118.3	16,027	2.0	0	2.0	0

Interference to proposal scenario 1
5.32% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		
Undesireds:	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	76.3 km
	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	28.1
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	142.4
	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK0000055430	274.8
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	71.7

Service area		Terrain-limited		IX-free		Percent IX
2054.6	149,419	1571.9	141,033	1513.0	133,529	3.75 5.32

Undesired		Total IX		Unique IX		Prcnt Unique IX
KLDF-CD D17+ DC LIC	4.0	0	0.0	0	0.00	0.00
K17GD-D D17 DC LIC	12.9	0	11.9	0	0.76	0.00
KCOY-TV D19 DT LIC	46.9	7,504	41.9	7,504	2.67	5.32

Interference to proposal scenario 2
5.32% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		
Undesireds:	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	76.3 km
	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	28.1
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	142.4
	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067	274.2
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	71.7

Service area		Terrain-limited		IX-free		Percent IX
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2054.6	149,419	1571.9	141,033	1513.0	133,529	3.75	5.32
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Undesired			Total IX		Unique IX	Prcnt Unique IX	
KLDF-CD D17+ DC LIC	4.0		0	0.0	0	0.00	0.00
K17GD-D D17 DC LIC	12.9		0	10.9	0	0.70	0.00
KSCI D18 DT CP	1.0		0	0.0	0	0.00	0.00
KCOY-TV D19 DT LIC	46.9		7,504	41.9	7,504	2.67	5.32

Interference to proposal scenario 3
5.32% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		
Undesireds:	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	28.1 km
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	142.4
	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK0000055430	274.8
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	71.7

	Service area		Terrain-limited		IX-free		Percent IX
2054.6	149,419	1571.9	141,033	1513.0	133,529	3.75	5.32

Undesired			Total IX		Unique IX	Prcnt Unique IX	
K17GD-D D17 DC LIC	12.9		0	11.9	0	0.76	0.00
KCOY-TV D19 DT LIC	46.9		7,504	45.9	7,504	2.92	5.32

Interference to proposal scenario 4
5.32% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K39LG-D	D18	LD	APP	SAN LUIS OBISPO, CA		
Undesireds:	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	28.1 km
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	142.4
	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067	274.2
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	71.7

Service area		Terrain-limited			IX-free	Percent IX	
2054.6	149,419	1571.9	141,033	1513.0	133,529	3.75	5.32
Undesired			Total IX		Unique IX	Prcnt Unique IX	
K17GD-D D17 DC LIC	12.9	0	10.9	0	0.70	0.00	
KSCI D18 DT CP	1.0	0	0.0	0	0.00	0.00	
KCOY-TV D19 DT LIC	46.9	7,504	45.9	7,504	2.92	5.32	