

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Bakers17d8kwCL1469at150T, Model: Longley-Rice

Start: 2021.06.09 17:15:33

Study created: 2021.06.09 17:15:32

Study build station data: LMS TV 2021-06-09

Proposal: K17LX-D D17 LD APP BAKERSFIELD, CA

Facility ID: 130071

Station data: User record

Record ID: 31

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	KFVD-LP	N15z	TX	LIC	PORTERVILLE, CA	BLTT19891122JU	98.9 km
No	KHSC-LD	D16	LD	LIC	FRESNO, CA	BLDTL20140811ACM	182.1
No	K16JW-D	D16	LD	LIC	RIDGECREST, CA	BLDTT20120309ABV	137.9
No	K16FC-D	D16	LD	LIC	SAN LUIS OBISPO, CA	BLDTT20100510AWS	131.8
No	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	17.8
No	K17JI-D	D17	DC	LIC	FRESNO, CA	BLANK0000124967	144.6
No	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	137.4
No	KLDF-CD	D17+	DC	CP	LOMPOC, CA	BLANK0000127525	137.4
No	K26MW-D	N17	TX	LIC	LUCERNE VALLEY, CA	BLTT20120112AFA	238.4
No	KODG-LP	D17	LD	LIC	PALM SPRINGS, CA	BLANK0000022353	323.6
No	KODG-LP	N17z	TX	LIC	PALM SPRINGS, CA	BLTTL20001219ABP	328.1
No	K17GD-D	D17	DC	LIC	PASO ROBLES, CA	BLANK0000001602	140.4
No	KUAN-LD	D17	LD	LIC	POWAY, ETC., CA	BLANK0000068682	370.1
No	K17HY-D	D17	LD	LIC	RIDGECREST, ETC., CA	BLDTT20090622AAJ	137.9
No	KNSD	D17	DT	LIC	SAN DIEGO, CA	BLANK0000068597	370.1
No	K17KP-D	D17	LD	CP	SAN LUIS OBISPO, CA	BNPDTL20100423AAH	124.9
No	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	123.9
No	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078400	123.9

No	K17GJ	D17	LD	LIC	Twentynine Palms, CA	BLANK0000004553	333.2
No	K17GJ	N17-	TX	LIC	Twentynine Palms, CA	BLTT20080902AED	301.9
No	K17CL-D	D17	LD	LIC	PAHRUMP, NV	BLDTT20120510ACN	303.0
No	K17FR-D	D17	LD	LIC	WALKER LAKE, NV	BLDTT20120229ABR	354.2
Yes	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	42.1
No	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK0000055430	172.2
Yes	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067	171.2
No	K18MP-D	D18	LD	LIC	RIDGECREST, CA	BLANK0000068886	137.8
No	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	144.6
No	K24GS	N24+	TX	LIC	BAKERSFIELD, CA	BLTTL20050118ADI	16.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17  
 Mask: Stringent  
 Latitude: 35 26 45.40 N (NAD83)  
 Longitude: 119 12 19.10 W  
 Height AMSL: 116.0 m  
 HAAT: 0.0 m  
 Peak ERP: 8.00 kW  
 Antenna: KAT-CL-1469B (ID 1007708) 150.0 deg  
 Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-12.3 m	3.2 km
45.0	0.000	-37.5	3.2
90.0	0.000	-24.2	3.2
135.0	6.19	3.3	27.3
180.0	3.10	12.0	24.1
225.0	0.000	18.8	3.2
270.0	0.000	19.3	3.2
315.0	0.000	10.0	3.2

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: -1 m

Distance to Canadian border: 1464.4 km

Distance to Mexican border: 355.7 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 318.8 degrees    Distance: 340.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 62.9 degrees    Distance: 1329.2 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%

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Interference to BLDTL20130128ACY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	
Undesireds:	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		42.1 km
	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	59.4
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	173.4
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	144.3
	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK0000055430	149.5

KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	153.3
KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	13.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
6297.5	643,261	5987.4	639,400	5913.9	637,682	5911.9	637,607	0.03 0.01

Undesired		Total IX		Unique IX, before		Unique IX, after
K17LX-D D17 LD APP	2.0	75			2.0	75
K17LW-D D17 LD CP	10.9	12	10.9	12	10.9	12
KFAZ-CA D18 DC LIC	3.0	0	0.0	0	0.0	0
KBBV-CD D19 DC LIC	62.6	1,706	59.6	1,706	59.6	1,706

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Interference to BLDTL20130128ACY LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	
Undesireds:	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		42.1 km
	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	59.4
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	173.4
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK0000078274	144.3
	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067	148.4
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	153.3
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	13.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
6297.5	643,261	5987.4	639,400	5912.9	637,682	5910.9	637,607	0.03 0.01

Undesired		Total IX		Unique IX, before		Unique IX, after
K17LX-D D17 LD APP	2.0	75			2.0	75
K17LW-D D17 LD CP	10.9	12	10.9	12	10.9	12
KSCI D18 DT CP	3.0	0	1.0	0	1.0	0
KFAZ-CA D18 DC LIC	3.0	0	0.0	0	0.0	0
KBBV-CD D19 DC LIC	62.6	1,706	57.6	1,706	57.6	1,706

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Interference to BLDTL20130128ACY LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	
Undesireds:	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		42.1 km
	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	59.4
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	173.4
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK00000078274	144.3
	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK00000055430	149.5
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	153.3
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK00000035842	0.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6297.5 643,261	5987.4 639,400	5602.4 639,217	5600.5 639,142	0.04 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
K17LX-D D17 LD APP 2.0	75	2.0 75	
K17LW-D D17 LD CP 10.9	12	10.9 12	
KFAZ-CA D18 DC LIC 3.0	0	0.0 0	
KBBV-CD D19 DC CP 374.1	171	371.1 171	

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Interference to BLDTL20130128ACY LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	
Undesireds:	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		42.1 km
	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	59.4
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	173.4
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLANK00000078274	144.3
	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK00000129067	148.4
	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	153.3
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK00000035842	0.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6297.5 643,261	5987.4 639,400	5599.4 639,217	5597.5 639,142	0.04 0.01

Undesired		Total IX	Unique IX, before		Unique IX, after	
K17LX-D D17 LD APP	2.0	75			2.0	75
K17LW-D D17 LD CP	10.9	12	10.9	12	10.9	12
KSCI D18 DT CP	3.0	0	3.0	0	3.0	0
KFAZ-CA D18 DC LIC	3.0	0	0.0	0	0.0	0
KBBV-CD D19 DC CP	374.1	171	371.1	171	371.1	171

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Interference to BLANK0000129067 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000129067	
Undesireds:	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		171.2 km
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	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	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	28766.6 16,034,214		28761.6 16,034,214		0.02	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
K17LX-D D17 LD APP	18.0	12			5.0	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	3007.2	393,542
KFAZ-CA D18 DC LIC	9.0	12	5.0	12	1.0	0
KPBS D19 DT LIC	118.3	16,027	2.0	0	2.0	0

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Interference to BLANK0000129067 CP scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired: KSCI D18 DT CP LONG BEACH, CA BLANK0000129067

Undesireds:	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		171.2 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
K17LX-D D17 LD APP	18.0 12	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	3005.2 393,542
KFAZ-CA D18 DC LIC	9.0 12	2.0 0	1.0 0
KBBV-CD D19 DC CP	13.0 12	3.0 0	2.0 0
KPBS D19 DT LIC	118.3 16,027	2.0 0	2.0 0

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Interference to proposal scenario 1  
36.23% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K17LX-D	D17	LD	APP	BAKERSFIELD, CA		
Undesireds:	K17LW-D	D17	LD	CP	BUTTONWILLOW, CA	BNPDTL20100514ABZ	17.8 km
	K17JI-D	D17	DC	LIC	FRESNO, CA	BLANK0000124967	144.6
	KLDF-CD	D17+	DC	LIC	LOMPOC, CA	BLANK0000001615	137.4
	KODG-LP	D17	LD	LIC	PALM SPRINGS, CA	BLANK00000022353	323.6
	KSBBCD	D17	DC	LIC	SANTA BARBARA, CA	BLANK00000078274	123.9
	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	42.1

Service area		Terrain-limited			IX-free	Percent IX	
534.6	347,072	534.6	347,072	355.3	221,341	33.54	36.23
Undesired			Total IX		Unique IX	Prcnt Unique IX	
K17LW-D D17 LD CP		75.7	1,015	26.9	34	5.03	0.01
K17JI-D D17 DC LIC		17.9	8	0.0	0	0.00	0.00
K18HD-D D18 LD LIC		148.4	125,697	103.6	124,716	19.37	35.93