

INTERFERENCE ANALYSIS FOR PROPOSED KKFX-CD, SAN LUIS OBISPO, CALIFORNIA (CHANNEL 24) (CELL SIZE = 1.0 KM / TERRAIN INCREMENT = 0.5 KM)

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: kkfx001 #4765, Model: Longley-Rice

Study build station data: LMS TV 2021-08-24

Proposal: KKFX001 D24 DC APP SAN LUIS OBISPO, CA
File number: kkfx001
Facility ID: 33870
Station data: User record
Record ID: 4065
Country: U.S.

Build options:
Protect LPTV records from Class A

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KMUV-LD	D23	LD	LIC	MONTEREY, CA	BLANK0000143484	172.7 km
No	KTFE-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	193.5
Yes	KFUL-LD	D23	LD	CP	SAN LUIS OBISPO, CA	BLANK0000052471	0.0
No	KVMD	D23	DD	LIC	TWENTYNINE PALMS, CA	BLANK0000145096	365.9
No	KIMG-LD	D23	LD	LIC	VENTURA, CA	BLDTL20130508ABU	164.8
No	K24GS	N24+	TX	LIC	BAKERSFIELD, CA	BLTTL20050118ADI	144.8
Yes	KBID-LP	D24	LD	LIC	FRESNO, CA	BLDTL20140403ABF	219.8
No	K24LS-D	D24+	LD	LIC	LUCERNE VALLEY, CA	BLANK0000115882	317.9
Yes	KMCE-LD	D24+	LD	LIC	MONTEREY, CA	BLANK0000064357	172.7
Yes	KMCE-LD	D24+	LD	CP	MONTEREY, CA	BLANK0000072280	213.7
No	KMAX-TV	D24	DT	LIC	SACRAMENTO, CA	BLANK0000112953	328.8
No	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	267.9
No	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	420.5
Yes	K24NX-D	D24	LD	CP	SANTA BARBARA, CA	BLANK0000071874	133.6
No	KAAP-LD	D24	LD	LIC	SANTA CRUZ, CA	BLANK0000113511	260.1
No	K24NS-D	D24+	LD	LIC	STATELINE, NV	BLANK0000144489	405.1
No	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394	173.8
No	KGET-TV	D25	DT	CP	BAKERSFIELD, CA	BLANK0000127615	173.8
No	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	268.1
No	K25QG-D	D25	LD	CP	SANTA BARBARA, CA	BLANK0000071873	133.6
Yes	KLFA-LD	D25	LD	LIC	SANTA MARIA, CA	BLDTL20120411AAJ	63.5
No	KQET	D25	DT	LIC	WATSONVILLE, CA	BLDTL20090624ABV	172.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
Mask: Full Service
Latitude: 35 21 37.90 N (NAD83)
Longitude: 120 39 24.60 W
Height AMSL: 777.0 m
HAAT: 446.0 m
Peak ERP: 15.0 kW
Antenna: SCA-4X3KBBU (ID 20757) 250.0 deg
Elev Pattern: Generic

Increase in ERP with no
other changes proposed.

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	11.4 kW	406.5 m	60.8 km
45.0	0.897	400.0	46.0
90.0	0.674	357.2	42.7
135.0	8.97	152.0	45.7
180.0	9.41	666.8	67.9
225.0	8.40	616.0	65.9
270.0	8.60	616.2	66.0
315.0	9.40	351.4	57.1

Distance to Canadian border: 1449.4 km

Distance to Mexican border: 425.9 km

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Conditions at FCC monitoring station: Livermore CA
Bearing: 339.9 degrees Distance: 280.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 64.1 degrees Distance: 1451.1 km

Study cell size: 1.00 km

Profile point spacing: 0.50 km (Higher resolution terrain profile point spacing is requested.)

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000052471 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFUL-LD	D23	LD	CP	SAN LUIS OBISPO, CA	BLANK0000052471	
Undesireds:	KKFX-CD	D24	DC	BL	SAN LUIS OBISPO, CA	DTVBL33870	0.0 km
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	0.0
	K22OP-D	D22	LD	CP	SANTA BARBARA, CA	BLANK0000129740	112.5
	KSMV-LD	D23	LD	LIC	LOS ANGELES, CA	BLDTL20110425ACA	267.9
	K23LK-D	D23	LD	CP	MODESTO, CA	BLANK0000004713	247.2
	KMUV-LD	D23	LD	LIC	MONTEREY, CA	BLANK0000143484	172.7
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	193.5
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000127501	331.3

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5299.1	314,403	4502.3	264,795	4360.5 258,111	4288.8 253,041 1.64 1.96

Undesired	Total IX	Unique IX, before	Unique IX, after
KKFX-CD D24 DC BL	0.0	0	0
KKFX001 D24 DC APP	72.7	5,070	71.7 5,070
K22OP-D D22 LD CP	15.0	6,640	14.0 6,640
KMUV-LD D23 LD LIC	1.0	0	1.0 0
KTFF-DT D23 DT LIC	126.8	44	125.8 44 124.8 44

Interference to BLDTL20140403ABF LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KBID-LP	D24	LD	LIC	FRESNO, CA	BLDTL20140403ABF	
Undesireds:	KKFX-CD	D24	DC	BL	SAN LUIS OBISPO, CA	DTVBL33870	219.8 km
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	219.8
	KTFF-DT	D23	DT	LIC	PORTERVILLE, CA	BLANK0000064190	102.2
	KMCE-LD	D24+	LD	LIC	MONTEREY, CA	BLANK0000064357	187.4
	KMAX-TV	D24	DT	LIC	SACRAMENTO, CA	BLANK0000112953	223.6
	K03HK	D25	LD	CP	FRESNO, CA	BDISDTL20090803AEE	24.5

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7162.5	1,030,824	6557.8	990,161	6462.6 980,869	6461.6 980,869 0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KKFX-CD D24 DC BL	0.0	0	0
KKFX001 D24 DC APP	1.0	0	1.0 0
KTFF-DT D23 DT LIC	33.2	7,194	19.1 3,814 19.1 3,814
KMAX-TV D24 DT LIC	61.0	4,837	46.0 1,457 46.0 1,457
K03HK D25 LD CP	16.0	641	15.0 641 15.0 641

Interference to BLANK0000064357 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMCE-LD	D24+	LD	LIC	MONTEREY, CA	BLANK0000064357	
Undesireds:	KKFX-CD	D24	DC	BL	SAN LUIS OBISPO, CA	DTVBL33870	172.7 km
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	172.7
	K23LK-D	D23	LD	CP	MODESTO, CA	BLANK0000004713	84.4
	KMUV-LD	D23	LD	LIC	MONTEREY, CA	BLANK0000143484	0.0

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KBID-LP	D24	LD	LIC	FRESNO, CA	BLDTL20140403ABF	187.4
KMAX-TV	D24	DT	LIC	SACRAMENTO, CA	BLANK0000112953	164.9
KAAP-LD	D24	LD	LIC	SANTA CRUZ, CA	BLANK0000113511	87.6
KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
9288.7	801,609	7933.8	751,956	7912.7	750,161	7909.7	750,161	0.04	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KKFX-CD	D24 DC BL	0.0	0	0.0	0				
KKFX001	D24 DC APP	3.0	0			3.0	0		
KMUV-LD	D23 LD LIC	6.0	235	0.0	0	0.0	0		
KBID-LP	D24 LD LIC	2.0	0	2.0	0	2.0	0		
KMAX-TV	D24 DT LIC	7.0	235	5.0	0	5.0	0		
KAAP-LD	D24 LD LIC	2.0	293	1.0	58	1.0	58		
KQET	D25 DT LIC	11.0	1,502	7.0	1,502	7.0	1,502		

Interference to BLANK0000072280 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMCE-LD	D24+	LD	CP	MONTEREY, CA	BLANK0000072280	
Undesireds:	KKFX-CD	D24	DC	BL	SAN LUIS OBISPO, CA	DTVBL33870	213.7 km
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	213.7
	K23LK-D	D23	LD	CP	MODESTO, CA	BLANK0000004713	61.4
	KMUV-LD	D23	LD	LIC	MONTEREY, CA	BLANK0000143484	41.4
	KBID-LP	D24	LD	LIC	FRESNO, CA	BLDTL20140403ABF	207.9
	KMAX-TV	D24	DT	LIC	SACRAMENTO, CA	BLANK0000112953	133.6
	KAAP-LD	D24	LD	LIC	SANTA CRUZ, CA	BLANK0000113511	48.5
	KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV	41.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
9050.8	841,011	7920.3	790,191	7850.3	786,635	7850.3	786,635	0.00	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KKFX-CD	D24 DC BL	0.0	0	0.0	0				
KKFX001	D24 DC APP	1.0	0			0.0	0		
KMUV-LD	D23 LD LIC	10.0	0	7.0	0	6.0	0		
KBID-LP	D24 LD LIC	9.0	10	7.0	10	7.0	10		
KMAX-TV	D24 DT LIC	10.0	17	8.0	17	8.0	17		
KAAP-LD	D24 LD LIC	35.9	3,051	33.9	2,935	33.9	2,935		
KQET	D25 DT LIC	12.0	594	7.0	478	7.0	478		

Interference to BLANK0000071874 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K24NX-D	D24	LD	CP	SANTA BARBARA, CA	BLANK0000071874	
Undesireds:	KKFX-CD	D24	DC	BL	SAN LUIS OBISPO, CA	DTVBL33870	133.6 km
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	133.6
	KMCE-LD	D24+	LD	LIC	MONTEREY, CA	BLANK0000064357	303.3
	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	150.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
3861.4	203,239	3755.7	203,053	3498.3	203,028	3497.3	203,028	0.03	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KKFX-CD	D24 DC BL	2.0	0	0.0	0				
KKFX001	D24 DC APP	7.0	0			1.0	0		
KPXN-TV	D24 DT LIC	257.4	25	255.4	25	251.3	25		

Interference to BLDL20120411AAJ LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLFA-LD	D25	LD	LIC	SANTA MARIA, CA	BLDL20120411AAJ	
Undesireds:	KKFX-CD	D24	DC	BL	SAN LUIS OBISPO, CA	DTVBL33870	63.5 km
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	63.5
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394	163.7

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K25QG-D	D25	LD	CP	SANTA BARBARA, CA	BLANK0000071873	76.4
K25AD-D	D25	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000137803	283.9
K26PP-D	D26	LD	LIC	Santa Maria-Lompoc, CA	BLANK0000152335	19.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7755.8 341,106	6201.8 301,259	6142.9 296,118	6141.9 296,112	0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KKFX-CD D24 DC BL	0.0	0	0
KKFX001 D24 DC APP	2.0	26	1.0 6
KGET-TV D25 DT LIC	10.0	0	9.0 0
K25QG-D D25 LD CP	1.0	0	1.0 0
K26PP-D D26 LD LIC	48.9	5,141	48.0 5,141

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKFX001	D24	DC	APP	SAN LUIS OBISPO, CA	kkfx001	

Service area	Terrain-limited	IX-free	Percent IX
10450.0 408,849	9273.2 400,958	9273.2 400,958	0.00 0.00
