

INTERFERENCE ANALYSIS FOR PROPOSED KDTF-LD, SAN DIEGO, CA, CHANNEL 16

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kdtf-15, Model: Longley-Rice

Study build station data: LMS TV 2020-02-14

Proposal: KDTF-L5 D16 LD APP SAN DIEGO, CA
File number: kdtf-15
Facility ID: 13022
Station data: User record
Record ID: 4325
Country: U.S.

Search options:

Non-U.S. records included

Baseline record excluded if station has CP

Individual records excluded:

0000068682 KUAN-LD D17 LD LIC POWAY, ETC., CA BLANK0000068682 (Channel share with KNSD. Excluded from study.)

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KUNA-LP	D15	LD	CP	INDIO, CA	BDFCDTL20110207ACY	143.2 km
No	KUNA-LP	N15-	TX	LIC	INDIO, CA	BLTTL20031124AQH	143.2
No	K15FC-D	N15+	TX	LIC	twentynine palms, CA	BLTT20080902AEC	168.5
No	K16EV-D	D16	LD	LIC	BULLHEAD CITY, AZ	BLDTT20130308AAR	360.6
No	NEW	D16	LD	APP	SALOME, AZ	BNPDTL20100514AEO	361.1
No	KESE-LP	D16	LD	CP	YUMA, AZ	BMPDTL20110208ACR	252.4
No	K16KH-D	D16	LD	CP	LUCERNE VALLEY, CA	BDCCDTT20061030AJR	183.7
No	K16JW-D	D16	LD	LIC	RIDGECREST, CA	BLDTT20120309ABV	296.2
No	K16LB-D	D16	LD	CP	YUCCA VALLEY, CA	BDCCDTT20120113AEI	182.7
No	KINC	D16	DT	LIC	LAS VEGAS, NV	BLCDT20060630ACH	400.2
No	KODG-LD	D17	LD	LIC	PALM SPRINGS, CA	BLANK0000022353	148.8
No	KODG-LD	N17z	TX	LIC	PALM SPRINGS, CA	BLTTL20001219ABP	143.2
Yes	KNSD	D17	DT	LIC	SAN DIEGO, CA	BLANK0000068597	33.3
No	K17GJ-D	N17-	TX	LIC	Twentynine Palms, CA	BLTT20080902AED	168.5
No	XHMEE	D15	DT	LIC	MEXICALI, BN	BLANKBPFS20160301ABY	166.1
Yes	XHTJB	D15	DT	LIC	TIJUANA, BN	BLANKBPFS20160302ACZ	52.3
Yes	XHENE	D16	DT	LIC	ENSENADA, BN	BLANKBPFS20111108ACK	122.0
Yes	LICITACIOND16		DT	LIC	MEXICALI, BN	BLANKBPFS20160524AAU	166.1
No	XHENJ	D17	DT	LIC	ENSENADA, BN	BLANKBPFS20160301ABK	122.1
No	XHCTME	D17	DT	LIC	MEXICALI, BN	BLANKBPFS20160524AAV	158.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16

Mask: Full Service

Latitude: 32 50 20.00 N (NAD83)

Longitude: 117 14 59.00 W

Height AMSL: 259.0 m

HAAT: 208.0 m

Peak ERP: 15.0 kW

Antenna: DIE-TLP-4F OS (ID 1006211) 30.0 deg

Elev Pattn: Generic

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.005 kW	188.2 m	12.4 km
45.0	0.908	151.0	34.8
90.0	9.43	135.9	45.8
135.0	14.4	194.6	51.6
180.0	4.46	219.9	47.2
225.0	0.152	258.9	31.4
270.0	0.000	259.0	5.5
315.0	0.000	259.0	3.4

Distance to Canadian border: 1788.5 km

**Proposal is within coordination distance of Mexican border

Distance to Mexican border: 31.6 km

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Conditions at FCC monitoring station: Livermore CA
Bearing: 324.3 degrees Distance: 679.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 49.5 degrees Distance: 1341.1 km

**Proposal fails contour check to land mobile station: LOS ANGELES CA WQJX503 ch. 15
**Proposal fails distance check to land mobile station: LOS ANGELES CA WQJX506 ch. 15, 117.4 km
**Proposal fails distance check to land mobile station: LOS ANGELES CA WQJX509 ch. 15, 123.3 km
**Proposal fails distance check to land mobile station: LOS ANGELES CA WQJX518 ch. 15, 114.9 km
**Proposal fails contour check to land mobile station: LOS ANGELES CA WQJX531 ch. 15
**Proposal fails distance check to land mobile station: LOS ANGELES CA WQJX534 ch. 15, 117.4 km
**Proposal fails distance check to land mobile station: LOS ANGELES CA WQJX537 ch. 15, 123.3 km
**Proposal fails distance check to land mobile station: LOS ANGELES CA WQJX546 ch. 15, 114.9 km

(Compliant with land mobile based on contour protection analysis of 130 km protected area.)

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 BLANK0000068597 LIC scenario 1

Desired:	Call KNSD	Chan D17	Svc DT	Status LIC	City, State SAN DIEGO, CA	File Number BLANK0000068597	Distance		
Undesireds:	KDTF-L5	D16	LD	APP	SAN DIEGO, CA	kdtf-15	33.3 km		
	KPSP-CD	D18	DC	LIC	CATHEDRAL CITY, CA	BLANK0000075036	138.1		
	KSCI	D18	DD	APP	LONG BEACH, CA	BLANK0000036118	198.3		
	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK0000005158	0.1		
	LICITACIOND16	DT	LIC	MEXICALI, BN	BLANKBPFS20160524AAU	135.3			
	XHCTME	D17	DT	LIC	MEXICALI, BN	BLANKBPFS20160524AAV	126.8		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
22709.4	3,851,132	19088.1	3,617,000	18941.9	3,601,567	18934.9	3,601,547	0.04	0.00
12484.4	1,772,892	11231.2	1,701,179	11220.2	1,701,179	11214.1	1,701,179	0.05	0.00 (in Mexico)
Undesired				Total IX	Unique IX, before		Unique IX, after		
KDTF-L5	D16	LD	APP	7.0	20	7.0	20		
KDTF-L5	D16	LD	APP	6.0	0	6.0	0	(in Mexico)	
KPSP-CD	D18	DC	LIC	2.0	0	1.0	0		
KSCI	D18	DD	APP	16.8	14,560	16.8	14,560		
KUSI-TV	D18	DT	LIC	35.0	305	33.0	305		
KUSI-TV	D18	DT	LIC	8.0	0	8.0	0	(in Mexico)	
LICITACION	D16	DT	LIC	2.0	0	1.0	0		
LICITACION	D16	DT	LIC	2.0	0	2.0	0	(in Mexico)	
XHCTME	D17	DT	LIC	94.4	568	90.4	568		
XHCTME	D17	DT	LIC	1.0	0	1.0	0	(in Mexico)	

Interference to BLANK0000068597 LIC scenario 2

Desired:	Call KNSD	Chan D17	Svc DT	Status LIC	City, State SAN DIEGO, CA	File Number BLANK0000068597	Distance		
Undesireds:	KDTF-L5	D16	LD	APP	SAN DIEGO, CA	kdtf-15	33.3 km		
	KPSP-CD	D18	DC	LIC	CATHEDRAL CITY, CA	BLANK0000075036	138.1		
	KSCI	D18	DT	LIC	LONG BEACH, CA	BLANK0000055430	198.3		
	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK0000005158	0.1		
	LICITACIOND16	DT	LIC	MEXICALI, BN	BLANKBPFS20160524AAU	135.3			
	XHCTME	D17	DT	LIC	MEXICALI, BN	BLANKBPFS20160524AAV	126.8		
	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX	
22709.4	3,851,132	19088.1	3,617,000	18914.2	3,588,888	18907.2	3,588,868	0.04	0.00
12484.4	1,772,892	11231.2	1,701,179	11220.2	1,701,179	11214.1	1,701,179	0.05	0.00(in Mexico)
Undesired				Total IX	Unique IX, before	Unique IX, after			

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KDTF-L5 D16 LD APP	7.0	20			7.0	20	
KDTF-L5 D16 LD APP	6.0	0			6.0	0	(in Mexico)
KPSP-CD D18 DC LIC	2.0	0	1.0	0	1.0	0	
KSCI D18 DT LIC	44.6	27,239	44.6	27,239	44.6	27,239	
KUSI-TV D18 DT LIC	35.0	305	33.0	305	33.0	305	
KUSI-TV D18 DT LIC	8.0	0	8.0	0	8.0	0	(in Mexico)
LICITACION D16 DT LIC	2.0	0	1.0	0	1.0	0	
LICITACION D16 DT LIC	2.0	0	2.0	0	2.0	0	(in Mexico)
XHCTME D17 DT LIC	94.4	568	90.4	568	90.4	568	
XHCTME D17 DT LIC	1.0	0	1.0	0	1.0	0	(in Mexico)

Interference to BLANKBPFS20160302ACZ LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance			
	XHTJB	D15	DT	LIC	TIJUANA, BN	BLANKBPFS20160302ACZ				
Undesireds:	KDTF-L5	D16	LD	APP	SAN DIEGO, CA	kdtf-l5	52.3 km			
	LICITACIOND14	DT	LIC		ENSENADA, BN	BLANKBPFS20160524AAS	69.5			
	LICITACIOND15	DT	BL		ENSENADA, BN	DTVBL704622	69.5			
	XHMEE	D15	DT	LIC	MEXICALI, BN	BLANKBPFS20160301ABY	132.3			
	XHENE	D16	DT	LIC	ENSENADA, BN	BLANKBPFS20111108ACK	71.3			
	LICITACIOND16	DT	LIC		MEXICALI, BN	BLANKBPFS20160524AAU	132.3			
	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
	7792.7	2,279,864	6422.5	2,086,825	6288.6	2,079,454	6240.6	2,074,671	0.76	0.23(in U.S.)
	10486.6	1,802,266	9099.1	1,768,191	7022.2	1,763,513	7021.2	1,763,513	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after		
KDTF-L5 D16 LD APP	53.0	12,111			48.0	4,783	(in U.S.)
KDTF-L5 D16 LD APP	1.0	0			1.0	0	
LICITACION D14 DT LIC	266.6	3	0.0	0	0.0	0	
LICITACION D15 DT BL	122.9	7,358	122.9	7,358	117.9	30	(in U.S.)
LICITACION D15 DT BL	2066.9	4,678	1800.3	4,675	1800.3	4,675	
XHMEE D15 DT LIC	11.0	13	11.0	13	11.0	13	(in U.S.)
XHMEE D15 DT LIC	10.0	0	9.0	0	9.0	0	
XHENE D16 DT LIC	24.2	0	0.0	0	0.0	0	
LICITACION D16 DT LIC	1.0	0	0.0	0	0.0	0	

Interference to BLANKBPFS20111108ACK LIC scenario 1

Desired:	Call XHENE	Chan D16	Svc DT	Status LIC	City, State ENSENADA, BN	File Number BLANKBPFS20111108ACK	Distance	
Undesireds:	KDTF-L5	D16	LD	APP	SAN DIEGO, CA	kdtf-l5	122.0 km	
	KNSD	D17	DT	LIC	SAN DIEGO, CA	BLANK0000068597	95.9	
	LICITACIOND15	DT	BL		ENSENADA, BN	DTVBL704622	1.9	
	XHTJB	D15	DT	LIC	TIJUANA, BN	BLANKBPFS20160302ACZ	71.3	
	LICITACIOND16	DT	LIC		MEXICALI, BN	BLANKBPFS20160524AAU	134.7	
	XHENJ	D17	DT	LIC	ENSENADA, BN	BLANKBPFS20160301ABK	0.1	
	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6857.1	354,309	5299.9	345,126	4278.5	343,004	4233.0	343,004	1.06 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after		
KDTF-L5 D16 LD APP	154.9	0			45.6	0	
KNSD D17 DT LIC	18.2	0	0.0	0	0.0	0	
LICITACION D15 DT BL	1020.4	2,122	956.8	1,449	885.8	1,449	
XHTJB D15 DT LIC	1.0	0	0.0	0	0.0	0	
LICITACION D16 DT LIC	1.0	0	1.0	0	0.0	0	
XHENJ D17 DT LIC	62.6	673	0.0	0	0.0	0	

Interference to BLANKBPFS20160524AAU LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	LICITACIOND16	DT	LIC		MEXICALI, BN	BLANKBPFS20160524AAU			
Undesireds:	KDTF-L5	D16	LD	APP	SAN DIEGO, CA	kdtf-l5	166.1 km		
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
5303.8	163,230	5209.9	163,230	5209.9	163,230	5209.9	163,230	0.00	0.00(in U.S.)
5569.7	899,702	4596.4	897,351	4596.4	897,351	4594.4	897,351	0.04	0.00

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Undesired		Total IX	Unique IX, before	Unique IX, after
KDTF-L5 D16 LD APP	2.0	0		2.0 0

Interference to proposal scenario 1
6.32% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDTF-L5	D16	LD	APP	SAN DIEGO, CA	kdtf-l5	
Undesireds:	KNSD	D17	DT	LIC	SAN DIEGO, CA	BLANK0000068597	33.3 km

Service area	Terrain-limited	IX-free	Percent IX
2966.3 2,195,620	2758.5 2,097,426	2608.4 1,964,826	5.44 6.32
796.6 1,158,051	765.5 1,083,166	727.4 929,621	4.98 14.18 (in Mexico)

Undesired	Total IX	Unique IX	Prcnt Unique IX
KNSD D17 DT LIC	150.0 132,600	150.0 132,600	5.44 6.32
KNSD D17 DT LIC	38.1 153,545	38.1 153,545	4.98 14.18 (in Mexico)
