

# INTERFERENCE ANALYSIS FOR PROPOSED KCWQ-LD, PALM SPRINGS, CA, CHANNEL 20, DISPLACEMENT FACILITY

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kcwq20p6, Model: Longley-Rice

Study build station data: LMS TV 2018-04-26

Proposal: KCWQ20P6 D20 LD APP PALM SPRINGS, CA  
File number: kcwq20p6  
Facility ID: 167761  
Station data: User record  
Record ID: 2684  
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17KD	N17	TX	LIC	LUCERNE VALLEY, CA	BLTT20120112AFA	78.0 km
No	KODG-LD	N17z	TX	LIC	PALM SPRINGS, CA	BLTTL20001219ABP	20.6
No	K17GJ-D	N17-	TX	LIC	Twentynine Palms, CA	BLTT20080902AED	32.1
No	KMOH-TV	D19	DT	LIC	KINGMAN, AZ	BLCDT20060707ABK	229.7
No	NEW	D19	LD	APP	DESERT CENTER, CA	BNPDTL20100514ADD	177.1
No	NEW	D19	LD	APP	HOLTVILLE, CA	BNPDTL20100510AAD	162.3
No	K19BT	N19-	TX	LIC	LUCERNE VALLEY, CA	BLTT19880307ID	78.0
No	KPBS	D19	DT	CP	SAN DIEGO, CA	BLANK0000027963	137.9
No	KSWB-TV	D19	DT	LIC	SAN DIEGO, CA	BLCDT20040722AAO	138.1
No	K19KK-D	D19	LD	CP	WHITE WATER, CA	BNPDTL20100514ACF	28.0
No	K20ID-D	D20	LD	LIC	KINGMAN, AZ	BLDTT20110328ABI	268.3
No	KPAZ-TV	D20	DT	LIC	PHOENIX, AZ	BLCDT20131121AHS	409.1
No	K20IA	N20-	TX	LIC	PRESCOTT, AZ	BLTTL20110711AAR	371.0
No	K20IM-D	D20	LD	LIC	BARSTOW, CA	BLDTL20100630BDO	123.7
No	KVME-TV	D20	DT	LIC	BISHOP, CA	BLANK0000001562	424.6
No	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	447.4
No	KFTV-DT	D20	DT	LIC	HANFORD, CA	BLCDT20020906ABE	447.8
No	K20LH-D	D20	LD	LIC	RIDGECREST, CA	BLDTT20120316ACR	212.6
No	NEW	D20	LD	APP	SANTA BARBARA, CA	BNPDTL20090825ATL	332.2
No	K20JV-D	D20	LD	LIC	VERTON, NV	BLDTT20100324ABO	358.3
No	K20MC-D	D20	LD	CP	PAHRUMP, NV	BLANK0000001309	247.5
No	KBLR	D20	DT	CP	PARADISE, NV	BLANK0000034348	271.5
No	K21MH-D	D21	LD	LIC	Daggett, CA	BLANK0000004555	120.9
No	KDUG-LD	D21	LD	LIC	HEMET, CA	BLANK0000021878	93.4
No	KDUG-LD	D21	LD	CP	HEMET, CA	BLANK0000022198	107.5
No	KDUG-LD	N21+	TX	LIC	HEMET, CA	BLTTL20080813ABI	76.3
No	K21GI	D21	LD	CP	MORONGO VALLEY, CA	BDFCDTT20120109ACZ	24.4
No	K21GI	N21+	TX	LIC	MORONGO VALLEY, CA	BLTT20050516AUD	24.4
No	K21DO-D	D21	DC	LIC	PALM SPRINGS, CA	BLDTA20150209ABF	0.1
No	K21MO-D	D21	LD	CP	RIVERSIDE, CA	BNPDTL20090825AAL	29.2
No	K21AC	N21	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IG	114.0
No	NEW	D21	LD	APP	LUFKIN, TX	BMJADTL20100517AAU	156.0
No	K27AE	N27	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IF	114.0
No	XHENT	D20	DT	LIC	ENSENADA, BN	BLANKBPFS20111019ACE	222.2
Yes	XHILA	D20	DT	LIC	MEXICALI, BN	BLANKBPFS20160302ACO	168.1
No	XHDTV	D21	DT	LIC	TECATE, BN	BLANKBPFS20160302ACX	173.9

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

KPSF 1200 L DA2 D CATHEDRAL CITY, CA BMML20120312ADG  
KPSF 1200 L DA2 N CATHEDRAL CITY, CA BMML20120312ADG  
KXPS 1010 L DA2 D THOUSAND PALMS, CA BMML20130320AFG  
KXPS 1010 L DA2 N THOUSAND PALMS, CA BMML20130320AFG

Record parameters as studied:

Channel: D20

Mask: Full Service

Latitude: 33 51 58.10 N (NAD83)

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Longitude: 116 26 5.00 W  
 Height AMSL: 496.0 m  
 HAAT: 0.0 m  
 Peak ERP: 0.325 kW  
 Antenna: RFS-SBB-E-8C170 (ID 1003021) 210.0 deg  
 Elev Pattn: Generic  
 Elec Tilt: 1.00

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.013 kW	-54.7 m	6.3 km
45.0	0.017	-207.9	6.8
90.0	0.104	194.1	25.8
135.0	0.288	427.4	40.4
180.0	0.282	363.1	38.2
225.0	0.259	353.1	37.3
270.0	0.319	221.9	33.0
315.0	0.172	218.7	29.6

Database HAAT does not agree with computed HAAT  
 Database HAAT: 0 m Computed HAAT: 189 m

Distance to Canadian border: 1682.1 km

\*\*Proposal is within coordination distance of Mexican border  
 Distance to Mexican border: 140.9 km

Conditions at FCC monitoring station: Livermore CA  
 Bearing: 313.3 degrees Distance: 643.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
 Bearing: 51.7 degrees Distance: 1210.1 km

**No land mobile station failures found**

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 BLANKBPFS20160302ACO LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	XHILA	D20	DT	LIC	MEXICALI, BN	BLANKBPFS20160302ACO	
Undesireds:	KCWQ20P6	D20	LD	APP	PALM SPRINGS, CA	kcwq20p6	168.1 km
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	3908.6	155,182	3625.5	154,974	3625.5	154,974	0.80 0.01 (in U.S.)
	4974.9	874,788	4368.6	870,507	4368.6	870,507	0.02 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KCWQ20P6	D20	LD	APP	28.9	13	28.9	13 (in U.S.)
KCWQ20P6	D20	LD	APP	1.0	0	1.0	0

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCWQ20P6	D20	LD	APP	PALM SPRINGS, CA	kcwq20p6	
Undesireds:	KDUG-LD	D21	LD	LIC	HEMET, CA	BLANK0000021878	93.4 km
	K21GI	D21	LD	CP	MORONGO VALLEY, CA	BDFCDTT20120109ACZ	24.4
	K21DO-D	D21	DC	LIC	PALM SPRINGS, CA	BLDTA20150209ABF	0.1
	XHILA	D20	DT	LIC	MEXICALI, BN	BLANKBPFS20160302ACO	168.1
	Service area		Terrain-limited		IX-free	Percent IX	
	2685.1	406,115	2327.8	392,902	392,760	1.87	0.04

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Undesired		Total IX		Unique IX	Prcnt Unique IX
K21GI D21 LD CP	1.0	0	1.0	0	0.04 0.00
K21DO-D D21 DC LIC	8.9	0	8.9	0	0.38 0.00
XHILA D20 DT LIC	33.6	142	33.6	142	1.44 0.04

## ----- Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCWQ20P6	D20	LD	APP	PALM SPRINGS, CA	kcwq20p6	
Undesireds:	KDUG-LD	D21	LD	LIC	HEMET, CA	BLANK0000021878	93.4 km
	K21DO-D	D21	DC	LIC	PALM SPRINGS, CA	BLDTA20150209ABF	0.1
	XHILA	D20	DT	LIC	MEXICALI, BN	BLANKBPFS20160302ACO	168.1

	Service area		Terrain-limited		IX-free		Percent IX
2685.1	406,115	2327.8	392,902	2285.2	392,760	1.83	0.04
Undesired		Total IX		Unique IX	Prcnt Unique IX		
K21DO-D D21 DC LIC	8.9	0	8.9	0	0.38 0.00		
XHILA D20 DT LIC	33.6	142	33.6	142	1.44 0.04		