

INTERFERENCE ANALYSIS FOR PROPOSED KCWQ-LD, PALM SPRINGS, CA, CHANNEL 22, DISPLACEMENT FACILITY

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kcwq22p22, Model: Longley-Rice

Study build station data: LMS TV 2018-04-06

Proposal: KCWQ22P22 D22 LD APP PALM SPRINGS, CA
File number: kcwq22p22
Facility ID: 167761
Station data: User record
Record ID: 2580
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K14JT	N14	TX	LIC	JOSHUA TREE, ETC., CA	BLTVL19980330JH	49.9 km
No	K15BZ	N15-	TX	LIC	DAGGETT, CA	BLTT19880307IC	120.9
No	KUNA-LP	N15-	TX	LIC	INDIO, CA	BLTTL20031124AQH	20.6
No	K15CA	N15+	TX	LIC	LUCERNE VALLEY, CA	BLTT19880307IE	78.0
No	K15FC-D	N15+	TX	LIC	twentynine palms, CA	BLTT20080902AEC	32.1
No	K19BT	N19-	TX	LIC	LUCERNE VALLEY, CA	BLTT19880307ID	78.0
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	KNAZ-TV	D22	DT	LIC	FLAGSTAFF, AZ	BLCDT20091210AAC	467.9
No	K22LA-D	D22	LD	CP	GOLDEN VALLEY, AZ	BNPDTL20100510ADZ	257.2
No	KPDF-CA	D22	DC	CP	PHOENIX, AZ	BLANK0000034612	409.0
No	KTVF-LD	D22	LD	LIC	PHOENIX, AZ	BLDTL20140813AAG	408.6
No	NEW	D22	LD	APP	BAKERSFIELD, CA	BNPDTL20090825APG	279.2
No	NEW	D22	LD	APP	BAKERSFIELD, CA	BNPDTL20090825ANW	286.4
No	NEW	D22	LD	APP	BAKERSFIELD, CA	BNPDTL20090825BUG	264.5
Yes	KVYE	D22	DT	LIC	EL CENTRO, CA	BLCDT20070604ABN	174.4
No	KHTV-CD	D22	DC	CP	LOS ANGELES, CA	BLANK0000027749	154.8
No	KMRZ-LD	D22	LD	LIC	LOS ANGELES, CA	BLANK0000029037	156.2
No	KHTV-CD	D22	DC	APP	LOS ANGELES, CA	BLANK0000034687	154.8
No	K22LM-D	D22	LD	CP	SANTA MARIA, CA	BDCCDTT20120725AAE	332.2
No	KNXT	D22	DT	CP	VISALIA, CA	BLANK0000028226	346.7
No	KSNV	D22	DT	LIC	LAS VEGAS, NV	BLCDT20090220ABX	271.2
No	K22DR	N22	TX	LIC	LAUGHLIN, NV	BLTT19911118JJ	218.2
No	K23BP	N23z	TX	LIC	DAGGETT, ETC., CA	BLTT19880307IB	120.9
No	K23MX-D	D23	LD	CP	DESERT CENTER, CA	BNPDTL20100514ACS	111.5
No	KSMV-LD	D23	LD	LIC	LOS ANGELES, CA	BLDTL20110425ACA	155.5
No	KSMV-LD	D23	LD	CP	LOS ANGELES, CA	BPDTL20130515ACU	155.5
No	K23ML-D	D23	LD	LIC	NEWBERRY SPRINGS, CA	BLANK0000011282	120.9
Yes	KVMD	D23	DD	APP	TWENTYNINE PALMS, CA	BPCDT20100325ACD	46.9
Yes	KVMD	D23	DT	LIC	TWENTYNINE PALMS, CA	BLCDT20060615AAB	39.8
No	K25GK	N25+	TX	LIC	JOSHUA TREE, CA	BLTT20000605AOK	50.0
No	KBLM-LP	N25+	TX	LIC	RIVERSIDE AND PERRIS, CA	BLTTL20081209ABP	78.8
No	K25AD	N25	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IE	114.0
No	K29GK	N29-	TX	LIC	TWENTYNINE PALMS,ETC, CA	BLTT20060119ADC	50.0
No	KVKV-LP	N29+	TX	LIC	VICTORVILLE, CA	BLTTL20080725ACX	114.4
No	K30GU	N30	TX	LIC	MORONGO VALLEY, CA	BLTT20021211AAS	24.4
No	XHDTV	D21	DT	LIC	TECATE, BN	BLANKBPFS20160302ACX	173.9
No	XHSFE	D22	DT	LIC	SAN FELIPE, BN	BLANKBPFS20160302ACU	349.8
No	XHUAA	D22	DT	LIC	TIJUANA, BN	BLANKBPFS20100517ADE	161.8
No	XHPDT	D22	DT	LIC	PUERTO PENASCO, SO	BLANKBPFS20160315ABI	393.0
No	XHS	D23	DT	LIC	ENSENADA, BN	BLANKBPFS20160301ABN	222.3
No	XETV	D23	DT	LIC	TIJUANA, BN	BLANKBPFS9764XXX	161.8

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No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22

Mask: Full Service

Latitude: 33 51 58.10 N (NAD83)

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 210.0 deg

Elev Pattnr: Generic

Elec Tilt: 1.00

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.013 kW	-54.7 m	6.2 km
45.0	0.017	-207.9	6.7
90.0	0.104	194.1	25.6
135.0	0.288	427.4	40.1
180.0	0.282	363.1	37.9
225.0	0.259	353.1	37.1
270.0	0.319	221.9	32.7
315.0	0.172	218.7	29.4

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

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 BLCDT20070604ABN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVYE	D22	DT	LIC	EL CENTRO, CA	BLCDT20070604ABN	
Undesireds:	KCWQ22P22	D22	LD	APP	PALM SPRINGS, CA	kcwq22p22	174.4 km
	KNAZ-TV	D22	DT	LIC	FLAGSTAFF, AZ	BLCDT20091210AAC	372.8
	KPDF-CA	D22	DC	CP	PHOENIX, AZ	BLANK0000034612	259.1
	KHTV-CD	D22	DC	CP	LOS ANGELES, CA	BLANK0000027749	326.0
	KSNV	D22	DT	LIC	LAS VEGAS, NV	BLCDT20090220ABX	329.1
	XHSFE	D22	DT	LIC	SAN FELIPE, BN	BLANKBPFS20160302ACU	225.4
	XHUAA	D22	DT	LIC	TIJUANA, BN	BLANKBPFS20100517ADE	215.5
	XHPDT	D22	DT	LIC	PUERTO PENASCO, SO	BLANKBPFS20160315ABI	228.8

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27664.0	396,684	25268.5	392,740	25142.7	392,737	24999.7	0.57 0.01
8802.6	1,093,129	8014.3	1,093,124	8007.3	1,093,124	8007.3	0.00 0.00(in Mexico)
Undesired	Total IX		Unique IX, before		Unique IX, after		

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KCWQ22P22 D22 LD APP	143.0	36			143.0	36
KNAZ-TV D22 DT LIC	11.9	0	7.0	0	7.0	0
KPDF-CA D22 DC CP	11.9	0	8.9	0	8.9	0
KSNV D22 DT LIC	3.0	0	2.0	0	2.0	0
XHSFE D22 DT LIC	4.0	0	3.0	0	3.0	0
XHSFE D22 DT LIC	3.0	0	2.0	0	2.0	0 (in Mexico)
XHUAA D22 DT LIC	2.0	0	0.0	0	0.0	0
XHPDT D22 DT LIC	102.0	3	98.0	3	98.0	3
XHPDT D22 DT LIC	5.0	0	4.0	0	4.0	0 (in Mexico)

Interference to BPCDT20100325ACD APP scenario 1

Desired:	Call KVMD	Chan D23	Svc DD	Status APP	City, State TWENTYNINE PALMS, CA	File Number BPCDT20100325ACD	Distance	
Undesireds:	KCWQ22P22	D22	LD	APP	PALM SPRINGS, CA	kcwq22p22	46.9 km	
	KHTV-CD	D22	DC	CP	LOS ANGELES, CA	BLANK0000027749	107.9	
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000034320	310.9	
	KPXN-TV	D24	DT	CP	SAN BERNARDINO, CA	BLANK0000034900	108.7	
	KBNT-CD	D24	DC	CP	SAN DIEGO, CA	BLANK0000034463	128.8	
	XHUAA	D22	DT	LIC	TIJUANA, BN	BLANKBPFS20100517ADE	163.2	
	XETV	D23	DT	LIC	TIJUANA, BN	BLANKBPFS9764XXX	163.2	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
28741.0	8,153,871	22444.8	7,683,694	21380.5	7,205,355	21378.5	7,205,355	0.01 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after	
KCWQ22P22	D22	LD	APP	2.0	0	2.0	0	
KHTV-CD	D22	DC	CP	2.0	156	1.0	0	
KPXN-TV	D24	DT	CP	596.2	379,424	552.6	371,410	
XHUAA	D22	DT	LIC	10.9	71	0.0	0	
XETV	D23	DT	LIC	510.8	106,929	456.2	98,844	

Interference to BLCDT20060615AAB LIC scenario 1

Desired:	Call KVMD	Chan D23	Svc DT	Status LIC	City, State TWENTYNINE PALMS, CA	File Number BLCDT20060615AAB	Distance
Undesireds:	KCWQ22P22	D22	LD	APP	PALM SPRINGS, CA	kcwq22p22	39.8 km
	KVYE	D22	DT	LIC	EL CENTRO, CA	BLCDT20070604ABN	214.2
	KHTV-CD	D22	DC	CP	LOS ANGELES, CA	BLANK0000027749	116.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000034320	310.4
	KPXN-TV	D24	DT	CP	SAN BERNARDINO, CA	BLANK0000034900	117.2
	KBNT-CD	D24	DC	CP	SAN DIEGO, CA	BLANK0000034463	139.3
	XHUAA	D22	DT	LIC	TIJUANA, BN	BLANKBPFS20100517ADE	172.1
	LICITACIOND23	DT	LIC		SAN FELIPE, BN	BLANKBPFS20130709AAM	383.1
	XETV	D23	DT	LIC	TIJUANA, BN	BLANKBPFS9764XXX	172.1
Service area		Terrain-limited			IX-free, before	IX-free, after	Percent New IX
33123.1	6,147,654	23188.9	4,202,080	21995.1	3,761,761	21990.2 3,761,098	0.02 0.02
Undesired				Total IX	Unique IX, before	Unique IX, after	
KCWQ22P22	D22	LD	APP	4.9 663		4.9 663	
KVYE	D22	DT	LIC	7.0 0	7.0 0	7.0 0	
KPXN-TV	D24	DT	CP	146.3 161,618	109.6 155,260	109.6 155,260	
KBNT-CD	D24	DC	CP	54.9 43,302	19.0 9,061	19.0 9,061	
XHUAA	D22	DT	LIC	85.8 32,862	0.0 0	0.0 0	
LICITACION	D23	DT	LIC	1.0 0	1.0 0	1.0 0	
XETV	D23	DT	LIC	1057.3 275,998	926.8 230,352	926.8 230,352	