

INTERFERENCE ANALYSIS FOR PROPOSED K19LZ-D, LAS CRUCES & ORGAN, NM, CHANNEL 19

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: k19lz06, Model: Longley-Rice

Study build station data: LMS TV 2022-01-17

Proposal: K19LZ06 D19 LD APP LAS CRUCES & ORGAN, NM
File number: k19lz06
Facility ID: 168556
Station data: User record
Record ID: 4440
Country: U.S.

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K18LM-D	D18	LD	LIC	MUD CANYON, NM	BLANK0000021330	151.2 km
Yes	KDBC-TV	D18	DT	LIC	EL PASO, TX	BLCDT20090713ABW	67.1
Yes	KDBC-TV	D18	DT	CP	EL PASO, TX	BLANK0000035801	65.0
No	KDOS-LD	D19	LD	LIC	GLOBE, AZ	BLANK0000090731	382.9
No	KTTU	D19	DT	LIC	TUCSON, AZ	BLCDT20030926ANZ	357.4
No	KVBA-LD	D19+	LD	LIC	Alamogordo, NM	BLANK0000179577	115.2
No	KVBA-LD	N19+	TX	LIC	Alamogordo, NM	BLTTL20070720AAD	115.2
No	K19JZ-D	D19	LD	LIC	CARLSBAD, NM	BLDTT20120705ABT	259.7
No	K19LP-D	D19	LD	LIC	CLOVIS, NM	BLANK0000147046	419.3
No	DK19HV	N19z	TX	APP	DEMING, NM	BLTT20100629AOR	66.1
No	K19KT-D	D19	LD	LIC	HOBBS, NM	BLANK0000060808	361.1
No	K19NF-D	D19	LD	CP	SOCORRO, NM	BLANK0000153217	182.9
No	K19JN-D	D19	LD	CP	BALMORHEA, TX	BNPDTL20100416ABF	330.7
No	K20HA-D	D20z	LD	LIC	CABALLO, NM	BLANK0000156855	82.4
No	K20HA-D	N20z	TX	LIC	CABALLO, NM	BLTT20050202ADM	82.4
No	K20LO-D	D20	LD	CP	DEMING, NM	BNPDTL20100504AMZ	113.3
No	KCWF-LP	N20+	TX	LIC	LAS CRUCES, NM	BLTTL20110415AAC	20.0
No	DKGDR-LP	D20	LD	APP	RUIDOSO, NM	BLANK0000054750	163.7
Yes	KTFN	D20	DT	LIC	EL PASO, TX	BLANK0000068199	66.3
No	XHFAS	D19	DT	LIC	FRONTERAS, SO	BLANKBPFS20151113ALF	294.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19
Mask: Stringent
Latitude: 32 16 40.40 N (NAD83)
Longitude: 106 54 43.50 W
Height AMSL: 1355.5 m (Adjusted based on actual ground elevation calculation)
HAAT: 51.0 m
Peak ERP: 0.930 kW
Antenna: Kathrein-75010210 70.0 deg
Elev Pattn: Generic

Azimuth	ERP	HAAT	Distance
0.0 deg	0.032 kW	-49.4 m	7.9 km
45.0	0.606	143.5	31.9
90.0	0.706	153.4	33.3
135.0	0.054	80.9	14.5
180.0	0.006	69.8	7.7
225.0	0.002	26.2	3.8
270.0	0.003	-2.8	4.4
315.0	0.005	-15.7	5.0

Distance to Canadian border: 1858.7 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 54.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 252.3 degrees Distance: 272.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 9.2 degrees Distance: 884.0 km

No land mobile station failures found

Study cell size: 1.00 km
Profile point spacing: 1.00 km

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

Interference to BLCDT20090713ABW LIC scenario 1

Desired:	Call KDBC-TV	Chan D18	Svc DT	Status LIC	City, State EL PASO, TX	File Number BLCDT20090713ABW	Distance	
Undesireds:	K19LZ06	D19	LD	APP	LAS CRUCES & ORGAN, NM	k19lz06	67.1 km	
	KVIA-TV	D17	DT	LIC	EL PASO, TX	BLCDT20140828ACL	1.0	
	KUPB	D18	DT	LIC	MIDLAND, TX	BLCDT20090615ABW	373.0	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
21166.6	1,015,564	19492.4	1,015,007	19309.2	1,015,004	19294.2	1,013,598	0.08
9370.2	1,343,150	9061.7	1,342,833	8360.7	1,342,823	8360.7	1,342,823	0.00
								0.00(in Mexico)
Undesired	Total IX			Unique IX, before		Unique IX, after		
K19LZ06 D19 LD APP	15.1			1,406		15.1		1,406
KVIA-TV D17 DT LIC	53.4			0		53.4		0
KVIA-TV D17 DT LIC	701.0			10		701.0		10
KUPB D18 DT LIC	129.8			3		129.8		3
							(in Mexico)	

Interference to BLANK0000035801 CP scenario 1

Desired:	Call KDBC-TV	Chan D18	Svc DT	Status CP	City, State EL PASO, TX	File Number BLANK0000035801	Distance			
Undesireds:	K19LZ06	D19	LD	APP	LAS CRUCES & ORGAN, NM	k19lz06	65.0 km			
	KVIA-TV	D17	DT	LIC	EL PASO, TX	BLCDT20140828ACL	1.2			
	KUPB	D18	DT	LIC	MIDLAND, TX	BLCDT20090615ABW	373.6			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
27436.0	1,021,950	25222.8	1,018,377		25119.6	1,018,296	25092.5	1,018,024	0.11	0.03
13534.0	1,348,538	12945.4	1,348,516		12870.2	1,348,466	12870.2	1,348,466	0.00	0.00 (in Mexico)
Undesired		Total IX		Unique IX, before		Unique IX, after				
K19LZ06	D19 LD APP	28.1		272		27.1		272		
KVIA-TV	D17 DT LIC	20.1		81		20.1		81		
KVIA-TV	D17 DT LIC	75.2		50		75.2		50		(in Mexico)
KUPB	D18 DT LIC	83.1		0		83.1		0		

Interference to BLANK0000068199 LIC scenario 1

Desired:	Call KTFN	Chan D20	Svc DT	Status LIC	City, State EL PASO, TX	File Number BLANK0000068199	Distance		
Undesireds:	K19LZ06 KSCE	D19 D21	LD DT	APP LIC	LAS CRUCES & ORGAN, NM EL PASO, TX	k19lz06 BLANK0000071608	66.3 km 0.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New	IX
23195.0	1,017,160	21340.0	1,013,883	21328.9	1,013,883	21295.8	1,011,923	0.16	0.19
10506.4	1,343,156	10212.9	1,343,120	10212.9	1,343,120	10212.9	1,343,120	0.00	0.00(in Mexico)
Undesired				Total IX	Unique IX, before	Unique IX, after			
K19LZ06	D19	LD	APP	33.2	1,960	33.2	1,960		
KSCE	D21	DT	LIC	11.1	0	11.1	0		

Interference to proposal scenario 1

Desired:	Call K19LZ06	Chan D19	Svc LD	Status APP	City, State LAS CRUCES & ORGAN, NM	File Number k19lz06	Distance
Undesireds:	KDBC-TV	D18	DT	LIC	EL PASO, TX	BLCDT20090713ABW	67.1 km
	KVBA-LD	D19+	LD	LIC	Alamogordo, NM	BLANK0000179577	115.2
	K20HA-D	D20z	LD	LIC	CABALLO, NM	BLANK0000156855	82.4
	KTFN	D20	DT	LIC	EL PASO, TX	BLANK0000068199	66.3
Service area		Terrain-limited			IX-free	Percent IX	
1001.4	144,364	941.1	143,532		890.8	142,973	5.34 0.39
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KDBC-TV	D18	DT	LIC	203	2.0	0	0.21 0.00
KTFN	D20	DT	LIC	48.3	559	36.2	356 3.85 0.25