

# INTERFERENCE ANALYSIS FOR K20HA, CABALLO, NM, CHANNEL 20 (DIGITAL FLASH-CUT)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: k20ha\_p2, Model: Longley-Rice

Study build station data: LMS TV 2019-06-17

Proposal: K20HA\_P2 D20 LD APP CABALLO, NM  
File number: k20ha\_p2  
Facility ID: 126189  
Station data: User record  
Record ID: 3938  
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	KVBA-LP	N19+	TX	LIC	ALAMOGORDO, NM	BLTTL20070720AAD	127.3 km
No	K19HV	N19z	TX	LIC	DEMING, NM	BLTT20100629AOR	93.5
No	K19LZ-D	D19	LD	LIC	LAS CRUCES & ORGAN, NM	BLANK0000067391	82.5
No	K20GG-D	D20	LD	LIC	DUNCAN, AZ	BLDTT20090715AIQ	195.2
No	KPAZ-TV	D20	DT	LIC	PHOENIX, AZ	BLCDT20131121AHS	452.0
No	K20FO-D	N20z	TX	LIC	SIERRA VISTA, AZ	BLANK0000021597	305.9
No	KNMQ-LD	D20	LD	LIC	ALBUQUERQUE, NM	BLANK0000072913	259.3
No	K20LO-D	D20	LD	CP	DEMING, NM	BNPDTL20100504AMZ	110.4
No	K20KT-D	D20	LD	LIC	DORA, NM	BLDTT20110809ABU	359.6
No	K20GT-D	D20	LD	LIC	INDIAN VILLAGE, NM	BLDTT20120522AFA	292.6
No	KCWF-LP	N20+	TX	LIC	LAS CRUCES, NM	BLTTL20110415AAC	76.5
No	K20GQ-D	D20	LD	LIC	LAS VEGAS, NM	BLDTT20091112AKK	343.7
No	KGDR-LP	D20	LD	CP	RUIDOSO, NM	BLANK0000054750	142.5
Yes	KTFN	D20	DT	LIC	EL PASO, TX	BLANK0000068199	147.1
No	K21LR-D	D21	LD	CP	ALAMOGORDO, NM	BDCCDTL20110301ABA	125.7
No	K48HL-D	D21	LD	CP	DATIL/HORSE SPRINGS, NM	BLANK0000053911	106.8
No	K02KP	D21	LD	APP	LORDSBURG, NM	BLANK0000071838	157.8
No	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	277.0
No	KSCE	D21	DT	LIC	EL PASO, TX	BLANK0000071608	147.1
No	K22JY-D	N27	TX	LIC	TRUTH OR CONSEQUENCE, NM	BLTT198711061B	20.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

**Channel: D20**

Mask: Simple

Latitude: 32 58 17.20 N (NAD83)

Longitude: 107 13 27.00 W

Height AMSL: 2278.0 m

HAAT: 760.0 m

**Peak ERP: 0.240 kW**

Antenna: SCA-4DR-4S (ID 20748) 330.0 deg

Elev Pattn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.159 kW	587.8 m	40.9 km
45.0	0.002	693.7	18.7
90.0	0.000	710.4	6.2
135.0	0.002	665.2	17.0
180.0	0.000	619.6	8.2
225.0	0.000	933.3	13.3
270.0	0.029	929.6	35.8
315.0	0.215	942.0	48.5

Distance to Canadian border: 1781.6 km

\*\*Proposal is within coordination distance of Mexican border

# INTERFERENCE ANALYSIS FOR K20HA, CABALLO, NM, CHANNEL 20 (DIGITAL FLASH-CUT)

Distance to Mexican border: 132.0 km

Conditions at FCC monitoring station: Douglas AZ  
Bearing: 235.1 degrees Distance: 280.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 11.9 degrees Distance: 813.5 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%

## ----- Interference to BLANK0000068199 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTFN	D20	DT	LIC	EL PASO, TX	BLANK0000068199	
Undesireds:	K20HA	N20z	TX	LIC	CABALLO, NM	BLTT20050202ADM	147.1 km
	K20HA_P2	D20	LD	APP	CABALLO, NM	k20ha_p2	147.1
	KSCE	D21	DT	LIC	EL PASO, TX	BLANK0000071608	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	21263.7	1,012,762	21199.5	1,011,921
10506.4	1,343,156	10212.9	1,343,120	10212.9	1,343,120	10212.9	1,343,120
							0.30 0.08
							0.00 0.00(in Mexico)
Undesired				Total IX	Unique IX, before	Unique IX, after	
K20HA N20z TX LIC				65.2	1,121	65.2	1,121
K20HA_P2 D20 LD APP				129.4	1,962	129.4	1,962
KSCE D21 DT LIC				11.1	0	11.1	0

## ----- Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K20HA_P2	D20	LD	APP	CABALLO, NM	k20ha_p2	
Undesireds:	KNMQ-LD	D20	LD	LIC	ALBUQUERQUE, NM	BLANK0000072913	259.3 km
	KCWF-LP	N20+	TX	LIC	LAS CRUCES, NM	BLTTTL20110415AAC	76.5
	KTFN	D20	DT	LIC	EL PASO, TX	BLANK0000068199	147.1
Service area		Terrain-limited		IX-free		Percent IX	
2545.8	10,424	2372.2	9,015	1721.5	8,878	27.43	1.52
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KNMQ-LD D20 LD LIC				13.0	0	2.0	0
KCWF-LP N20+ TX LIC				20.0	0	5.0	0
KTFN D20 DT LIC				643.8	137	620.8	137
						26.17	1.52

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