



Kessler and Gehman Associates
Consultants • Broadcast • Wireless

tvstudy v2.2.2

Database: localhost, Study: KNVA-D23 320 kW 1%, Model: Longley-Rice
Start: 2017.06.12 14:45:27

Study created: 2017.06.12 14:44:17

Study build station data: LMS TV 2017-06-09 (8)

Proposal: KNVA D23 DT BL AUSTIN, TX
File number: DTVBL144
Facility ID: 144
Station data: User record
Record ID: 332
Country: U.S.
Zone: III

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6 km
KTMD	D22	DT	BL	GALVESTON, TX	DTVBL64984	235.9
KSLA	D23	DT	BL	SHREVEPORT, LA	DTVBL70482	449.8
KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	297.7
KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	235.9
KTXD-TV	D23	DT	BL	GREENVILLE, TX	DTVBL42359	259.0
KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	0.3
KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	235.9
KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1
XHRDC	D23	DT	LIC	NUEVA ROSITA, CI	BLANKBPFS20160304ABK	422.4
LICITACIOND	D23	DT	LIC	PIEDRAS NEGRAS, CI	BLANKBPFSXXXX0014XXX	322.4
XHLNA	D23	DT	LIC	NUEVO LAREDO, TA	BLANKBPFS20160318AAN	360.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23

Latitude: 30 19 33.74 N (NAD83)

Longitude: 97 47 59.03 W

Height AMSL: 616.5 m

HAAT: 393.9 m

Peak ERP: 320 kW

Antenna: Omnidirectional

39.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	320 kW	351.5 m	94.8 km
45.0	320	380.5	97.1
90.0	320	421.7	100.0
135.0	320	461.8	103.3
180.0	320	410.7	99.2
225.0	320	343.9	94.1
270.0	320	394.8	98.1
315.0	320	386.0	97.5

Proposal service area is within baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1837.4 km

Distance to Mexican border: 309.1 km

Conditions at FCC monitoring station: Kingsville TX

Bearing: 181.5 degrees Distance: 320.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 330.3 degrees Distance: 1279.1 km

Study cell size: 2.00 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 BLEDT20040305ACK LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	
Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	0.6 km
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	0.6
	KXAN-TV	D21	DT	LIC	AUSTIN, TX	BLCDT20050630AAG	0.6
	K22JA-D	D22	DC	LIC	CORPUS CHRISTI, TX	BLDTL20120103ABS	287.5
	KUVN-CD	D22	DC	BL	FORT WORTH, TX	DTVBL5319	273.5
	KTMD	D22	DT	BL	GALVESTON, TX	DTVBL64984	236.1
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	305.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33732.3 2,614,658	33048.6 2,575,518	32199.6 2,543,705	32199.6 2,543,705	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KNVA D23 DT BL	24.1 284	0.0 0	
KNVA D23 DT BL	32.1 448	0.0 0	
KXAN-TV D21 DT LIC	60.1 1,528	28.0 1,169	20.0 1,005
KTMD D22 DT BL	772.8 22,560	712.9 18,255	712.9 18,255
KETK-TV D22 DT LIC	75.9 12,030	24.0 7,800	24.0 7,800

Interference to DTVBL64984 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL70482 BL, scenario 1
Proposal causes no interference.

Interference to BLEDT20081016ABR LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20110127ACD LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	
Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	235.9 km
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	235.9
	KTMD	D22	DT	BL	GALVESTON, TX	DTVBL64984	0.0
	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	321.8
	KSLA	D23	DT	BL	SHREVEPORT, LA	DTVBL70482	376.2
	KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	292.4
	KTXD-TV	D23	DT	BL	GREENVILLE, TX	DTVBL42359	358.0
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	0.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35878.3 6,034,131	35858.3 6,033,867	35597.5 6,029,538	35581.5 6,029,495	0.04 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KNVA D23 DT BL 240.7	3,427	236.7 3,427	
KNVA D23 DT BL 256.7	3,470	252.7 3,470	
KTMD D22 DT BL 20.1	902	20.1 902	
KSLA D23 DT BL 4.0	0	0.0 0	

Interference to DTVBL42359 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTXD-TV	D23	DT	BL	GREENVILLE, TX	DTVBL42359	
Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	259.0 km
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	259.0
	KUVN-CD	D22	DC	BL	FORT WORTH, TX	DTVBL5319	42.0
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	163.6
	KSLA	D23	DT	BL	SHREVEPORT, LA	DTVBL70482	283.7
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	343.0
	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	358.0
	KXAS-TV	D24	DT	BL	FORT WORTH, TX	DTVBL49330	4.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
31284.8 6,546,672	31123.9 6,543,628	30485.3 6,524,377	30485.3 6,524,377	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KNVA D23 DT BL	113.1	800	105.0	726
KNVA D23 DT BL	117.1	817		105.0 726
KETK-TV D22 DT LIC	40.3	593	24.2	427
KSLA D23 DT BL	20.1	224	0.0	0
KSBI D23 DT LIC	47.9	279	43.9	221
KXAS-TV D24 DT BL	445.4	17,653	441.4	17,627
				437.3 17,610

Interference to DTVBL48836 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	
Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	0.3 km
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	0.3
	KXAS-TV	D24	DT	BL	FORT WORTH, TX	DTVBL49330	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	235.8
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	119.8
	KHPZ-CD	D25	DC	BL	ROUND ROCK, TX	DTVBL35910	33.7
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000024497	124.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
11037.3 1,719,654	10880.6 1,715,336	10455.6 1,703,915	10415.5 1,698,681	0.38 0.31

Undesired		Total IX	Unique IX, before	Unique IX, after
KNVA D23 DT BL	360.8	10,458	360.8	10,458
KNVA D23 DT BL	400.9	15,692		400.9 15,692
KXAS-TV D24 DT BL	8.0	0	4.0	0
KETH-TV D24 DT LIC	56.2	954	52.2	954
KNIC-CD D24 DC BL	4.0	9	4.0	9

Interference to DTVBL48836 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	
Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	0.3 km
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	0.3

KXAS-TV	D24	DT	BL	FORT WORTH, TX	DTVBL49330	263.5
KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	235.8
KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	119.8
KHPZ-CD	D25	DC	BL	ROUND ROCK, TX	DTVBL35910	33.7
K27LF-D	D25	DC	BL	SAN ANTONIO, TX	DTVBL24570	124.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
11037.3 1,719,654	10880.6 1,715,336	10455.6 1,703,915	10415.5 1,698,681	0.38 0.31

Undesired	Total IX	Unique IX, before	Unique IX, after
KNVA D23 DT BL 360.8	10,458	360.8 10,458	
KNVA D23 DT BL 400.9	15,692		400.9 15,692
KXAS-TV D24 DT BL 8.0	0	4.0 0	4.0 0
KETH-TV D24 DT LIC 56.2	954	52.2 954	52.2 954
KNIC-CD D24 DC BL 4.0	9	4.0 9	4.0 9

Interference to BLEDT20101019ABX LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL48837 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL48837 BL, scenario 2
Proposal causes no interference.

Interference to BLANKBPFS20160304ABK LIC, scenario 1
Proposal causes no interference.

Interference to BLANKBPFSXXXX0014XXX LIC, scenario 1
Proposal causes no interference.

Interference to BLANKBPFS20160318AAN LIC, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
1.22% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	
Undesireds:	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6 km
	KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	297.7
	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	235.9
	KTXD-TV	D23	DT	BL	GREENVILLE, TX	DTVBL42359	259.0
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	0.3
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1
	LICITACIOND	D23	DT	LIC	PIEDRAS NEGRAS, CI	BLANKBPFSXXXX0014XXX	322.4
	XHLNA	D23	DT	LIC	NUEVO LAREDO, TA	BLANKBPFS20160318AAN	360.7

Service area	Terrain-limited	IX-free	Percent IX
30256.0 2,443,230	29595.4 2,419,711	29271.4 2,390,076	1.09 1.22

Undesired	Total IX	Unique IX	Prcnt Unique IX
KLRU D22 DT LIC	72.1 4,691 64.2	828	0.22 0.03
KEDT D23 DT LIC	24.0 7,480 8.0	901	0.03 0.04
KLTJ D23 DT LIC	192.0 21,294 160.1	683	0.54 0.03
KTXD-TV D23 DT BL	55.8 15,497 35.9	1,035	0.12 0.04
KNIC-CD D24 DC BL	23.9 5,577 19.9	5,147	0.07 0.21