



Kessler and Gehman Associates
Consultants • Broadcast • Wireless

tvstudy v2.2.2

Database: localhost, Study: KFXK-D20 845 kW 1%, Model: Longley-Rice
Start: 2017.06.25 15:06:34

Study created: 2017.06.25 15:04:58

Study build station data: LMS TV 2017-06-23 (12)

Proposal: KFXK-TV D20 DT BL LONGVIEW, TX
File number: DTVBL70917
Facility ID: 70917
Station data: User record
Record ID: 450
Country: U.S.
Zone: II

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KARD	D19	DT	BL	WEST MONROE, LA	DTVBL3658	261.7 km
KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDDT20121115ABM	191.1
KLRA-CD	D20	DC	LIC	LITTLE ROCK, AR	BLANK0000004217	362.4
KZUP-CD	D20	DC	LIC	BATON ROUGE, LA	BLDTA20100308ABT	409.8
KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	277.8
KBXS-CD	D20	DC	CP	SHREVEPORT, LA	BLANK0000025140	116.2
KBXS-CD	D20	DC	BL	SHREVEPORT, LA	DTVBL70420	116.2
WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	427.4
KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDDT20130823ACR	396.0
KUVM-CD	D20	DC	CP	MISSOURI CITY, TX	BLANK0000024453	304.5
KUVM-CD	D20	DC	BL	MISSOURI CITY, TX	DTVBL13200	304.5
KAVU-TV	D20	DT	BL	VICTORIA, TX	DTVBL73101	432.9
KDTX-TV	D21	DT	BL	DALLAS, TX	DTVBL67910	191.1

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

Latitude: 32 15 36.40 N (NAD83)

Longitude: 94 57 3.20 W

Height AMSL: 495.9 m

HAAT: 360.2 m

Peak ERP: 845 kW

Antenna: DIE-TFU-21JSC/VP-R-C160 350.0 deg

39.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	715 kW	378.9 m	104.7 km
45.0	156	365.7	90.9
90.0	30.5	372.5	80.0
135.0	352	352.5	96.3
180.0	828	366.5	105.0
225.0	747	353.6	102.8
270.0	828	346.0	103.1
315.0	803	346.1	102.8

Proposal service area is within baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1497.2 km

Distance to Mexican border: 650.0 km

Conditions at FCC monitoring station: Kingsville TX

Bearing: 208.6 degrees Distance: 605.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 316.4 degrees Distance: 1268.1 km

No land mobile station failures found

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 DTVBL3658 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL3658 BL, scenario 8
Proposal causes no interference.

Interference to BLCDT20121115ABM LIC, scenario 1

Desired:	Call KTVT	Chan D19	Svc DT	Status LIC	City, State FORT WORTH, TX	File Number BLCDT20121115ABM	Distance
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1
	KTXA	D18	DT	CP	FORT WORTH, TX	BLANK0000024934	0.0
	KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	350.6
	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	343.0
	KGBS-CD	D19	DC	LIC	AUSTIN, TX	BLDTL20141118ARA	259.8
	KTXH	D19	DT	LIC	HOUSTON, TX	BLCDT20090804ABC	358.9
	KIDY	D19	DT	LIC	SAN ANGELO, TX	BLCDT20110520ADN	351.5
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	211.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
45638.0	6,912,366	45268.2	6,908,715	45120.3	6,907,182	45116.2	6,907,030	0.01 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
KFXK-TV D20 DT BL	20.1	365	20.1	365		
KFXK-TV D20 DT BL	24.2	517			24.2	517
KAUT-TV D19 DT BL	107.9	997	107.9	997	107.9	997
KTXH D19 DT LIC	20.0	171	20.0	171	20.0	171

Interference to BLCDT20121115ABM LIC, scenario 2

Desired:	Call KTVT	Chan D19	Svc DT	Status LIC	City, State FORT WORTH, TX	File Number BLCDT20121115ABM	Distance
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1
	KTXA	D18	DT	BL	FORT WORTH, TX	DTVBL51517	0.0
	KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	350.6
	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	343.0
	KGBS-CD	D19	DC	LIC	AUSTIN, TX	BLDTL20141118ARA	259.8
	KTXH	D19	DT	LIC	HOUSTON, TX	BLCDT20090804ABC	358.9
	KIDY	D19	DT	LIC	SAN ANGELO, TX	BLCDT20110520ADN	351.5
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	211.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
45638.0	6,912,366	45268.2	6,908,715	45120.3	6,907,182	45116.2	6,907,030	0.01 0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
KFXK-TV D20 DT BL	20.1	365	20.1	365		
KFXK-TV D20 DT BL	24.2	517			24.2	517
KAUT-TV D19 DT BL	107.9	997	107.9	997	107.9	997
KTXH D19 DT LIC	20.0	171	20.0	171	20.0	171

Interference to BLANK0000004217 LIC, scenario 1
Proposal causes no interference.

Interference to BLANK0000004217 LIC, scenario 2
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 1
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 2
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 3
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 4
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 5
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 6
Proposal causes no interference.

Interference to BLDTA20100308ABT LIC, scenario 7
 Proposal causes no interference.

 Interference to BLDTA20100308ABT LIC, scenario 8
 Proposal causes no interference.

 Interference to BLEDT20100216ABR LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8
	KZUP-CD	D20	DC	LIC	BATON ROUGE, LA	BLDTA20100308ABT	165.6
	KBXS-CD	D20	DC	CP	SHREVEPORT, LA	BLANK0000025140	245.9
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	317.1
	KUVM-CD	D20	DC	CP	MISSOURI CITY, TX	BLANK0000024453	258.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	18649.8	423,574	18649.8	423,574	18629.9	422,110	0.02 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KFXK-TV D20 DT BL		15.9		1,464	15.9	1,464	
KFXK-TV D20 DT BL		19.9		1,464		19.9 1,464	
WMPN-TV D20 DT LIC		4.0		0	4.0	0	

 Interference to BLEDT20100216ABR LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8
	KZUP-CD	D20	DC	LIC	BATON ROUGE, LA	BLDTA20100308ABT	165.6
	KBXS-CD	D20	DC	BL	SHREVEPORT, LA	DTVBL70420	245.9
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	317.1
	KUVM-CD	D20	DC	CP	MISSOURI CITY, TX	BLANK0000024453	258.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
18649.8 423,574	18649.8 423,574	18629.9 422,110	18625.9 422,110	0.02 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KFXK-TV D20 DT BL 15.9	1,464	15.9 1,464		
KFXK-TV D20 DT BL 19.9	1,464		19.9 1,464	
WMPN-TV D20 DT LIC 4.0	0	4.0 0	4.0 0	

Interference to BLEDT20100216ABR LIC, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8
	KZUP-CD	D20	DC	LIC	BATON ROUGE, LA	BLDTA20100308ABT	165.6
	KBXS-CD	D20	DC	CP	SHREVEPORT, LA	BLANK0000025140	245.9
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	317.1
	KUVM-CD	D20	DC	BL	MISSOURI CITY, TX	DTVBL13200	258.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
18649.8 423,574	18649.8 423,574	18629.9 422,110	18625.9 422,110	0.02 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KFXK-TV D20 DT BL 15.9	1,464	15.9 1,464		
KFXK-TV D20 DT BL 19.9	1,464		19.9 1,464	
WMPN-TV D20 DT LIC 4.0	0	4.0 0	4.0 0	

Interference to BLEDT20100216ABR LIC, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	277.8
	KZUP-CD	D20	DC	LIC	BATON ROUGE, LA	BLDTA20100308ABT	165.6
	KBXS-CD	D20	DC	BL	SHREVEPORT, LA	DTVBL70420	245.9

WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	317.1
KUVM-CD	D20	DC	BL	MISSOURI CITY, TX	DTVBL13200	258.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
18649.8	423,574	18649.8	423,574	18629.9	422,110	18625.9	422,110	0.02	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KFXK-TV D20 DT BL	15.9	1,464		15.9	1,464		
KFXK-TV D20 DT BL	19.9	1,464				19.9	1,464
WMPN-TV D20 DT LIC	4.0	0		4.0	0	4.0	0

Interference to BLANK0000025140 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000025140 CP, scenario 2
Proposal causes no interference.

Interference to DTVBL70420 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL70420 BL, scenario 2
Proposal causes no interference.

Interference to BLEDT20080807AAP LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20080807AAP LIC, scenario 2
Proposal causes no interference.

Interference to BLEDT20080807AAP LIC, scenario 3
Proposal causes no interference.

Interference to BLEDT20080807AAP LIC, scenario 4
Proposal causes no interference.

Interference to BMLCDT20130823ACR LIC, scenario 1
Proposal causes no interference.

Interference to BMLCDT20130823ACR LIC, scenario 2
Proposal causes no interference.

Interference to BLANK0000024453 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000024453 CP, scenario 2
Proposal causes no interference.

Interference to DTVBL13200 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL13200 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL73101 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL73101 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL67910 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDTX-TV	D21	DT	BL	DALLAS, TX	DTVBL67910	

Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	211.0
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	351.1
	KUOT-CD	D21	DC	BL	OKLAHOMA CITY, OK	DTVBL31368	317.5
	KXAN-TV	D21	DT	LIC	AUSTIN, TX	BLCDDT20050630AAG	259.0
	KZJL	D21	DT	BL	HOUSTON, TX	DTVBL69531	358.9
	KUVN-CD	D22	DC	CP	FORT WORTH, TX	BLANK0000025148	42.0
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDDT20120516ABW	163.6
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	210.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
34297.3 6,593,361	34156.5 6,590,324	33757.0 6,586,330	33757.0 6,586,330	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KFXK-TV D20 DT BL 4.0	48	0.0 0	
KFXK-TV D20 DT BL 4.0	48		0.0 0
KHBS D21 DT LIC 4.0	58	4.0 58	4.0 58
KXAN-TV D21 DT LIC 310.9	2,716	306.8 2,668	306.8 2,668
KETK-TV D22 DT LIC 88.7	1,268	84.6 1,220	84.6 1,220

Interference to DTVBL67910 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDTX-TV	D21	DT	BL	DALLAS, TX	DTVBL67910	
Undesireds:	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1 km
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	211.0
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	351.1
	KUOT-CD	D21	DC	BL	OKLAHOMA CITY, OK	DTVBL31368	317.5
	KXAN-TV	D21	DT	LIC	AUSTIN, TX	BLCDDT20050630AAG	259.0
	KZJL	D21	DT	BL	HOUSTON, TX	DTVBL69531	358.9
	KUVN-CD	D22	DC	BL	FORT WORTH, TX	DTVBL5319	42.0
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDDT20120516ABW	163.6
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	210.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
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34297.3	6,593,361	34156.5	6,590,324	33757.0	6,586,330	33757.0	6,586,330	0.00	0.00
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Undesired		Total IX	Unique IX, before	Unique IX, after
KFXK-TV D20 DT BL	4.0	48	0.0	0
KFXK-TV D20 DT BL	4.0	48		0.0 0
KHBS D21 DT LIC	4.0	58	4.0	58
KXAN-TV D21 DT LIC	310.9	2,716	306.8	2,668
KETK-TV D22 DT LIC	88.7	1,268	84.6	1,220

Interference to proposal, scenario 1
0.95% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	
Undesireds:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDDT20121115ABM	191.1 km
	KLRA-CD	D20	DC	LIC	LITTLE ROCK, AR	BLANK0000004217	362.4
	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	277.8
	KBXS-CD	D20	DC	CP	SHREVEPORT, LA	BLANK0000025140	116.2
	KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDDT20130823ACR	396.0
	KUVM-CD	D20	DC	CP	MISSOURI CITY, TX	BLANK0000024453	304.5
	KHPM-CD	D20	DC	BL	SAN MARCOS, TX	DTVBL35921	388.3
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	381.7
	KDTX-TV	D21	DT	BL	DALLAS, TX	DTVBL67910	191.1

Service area	Terrain-limited	IX-free	Percent IX
30467.7	934,043	30192.0	931,791
		29895.3	922,894
			0.98 0.95

Undesired		Total IX	Unique IX	Prcnt Unique IX
KTVT D19 DT LIC	201.4	4,837	68.5	2,713
KLTL-TV D20 DT LIC	91.2	4,060	87.2	4,040
KBXS-CD D20 DC CP	4.0	20	0.0	0
KQCW-DT D20 DT LIC	4.0	0	4.0	0
KDTX-TV D21 DT BL	132.9	2,124	0.0	0

Interference to proposal, scenario 2
0.95% interference

Service area		Terrain-limited		IX-free	Percent IX
30467.7	934,043	30192.0	931,791	29895.3	922,894
					0.98 0.95

Undesired		Total IX		Unique IX	Prcnt Unique IX
KTVT D19 DT LIC	201.4	4,837	68.5	2,713	0.23 0.29
KLTL-TV D20 DT LIC	91.2	4,060	87.2	4,040	0.29 0.43
KBXS-CD D20 DC CP	4.0	20	0.0	0	0.00 0.00
KQCW-DT D20 DT LIC	4.0	0	4.0	0	0.01 0.00
KDTX-TV D21 DT BL	132.9	2,124	0.0	0	0.00 0.00

Interference to proposal, scenario 4
0.95% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	
Undesireds:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	191.1 km
	KLRA-CD	D20	DC	LIC	LITTLE ROCK, AR	BLANK0000004217	362.4
	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	277.8
	KBXS-CD	D20	DC	BL	SHREVEPORT, LA	DTVBL70420	116.2
	KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDT20130823ACR	396.0
	KUVM-CD	D20	DC	BL	MISSOURI CITY, TX	DTVBL13200	304.5
	KHPM-CD	D20	DC	BL	SAN MARCOS, TX	DTVBL35921	388.3
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	381.7
	KDTX-TV	D21	DT	BL	DALLAS, TX	DTVBL67910	191.1

Service area		Terrain-limited		IX-free	Percent IX
30467.7	934,043	30192.0	931,791	29895.3	922,894
					0.98 0.95

Undesired		Total IX		Unique IX	Prcnt Unique IX
KTVT D19 DT LIC	201.4	4,837	68.5	2,713	0.23 0.29
KLTL-TV D20 DT LIC	91.2	4,060	87.2	4,040	0.29 0.43
KBXS-CD D20 DC BL	4.0	20	0.0	0	0.00 0.00
KQCW-DT D20 DT LIC	4.0	0	4.0	0	0.01 0.00
KDTX-TV D21 DT BL	132.9	2,124	0.0	0	0.00 0.00