

Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: 192.168.0.58, Study: K31GL_Ch07_1.4kW_KAT265deg_Mv2Hg2_Pre, Model: Longley-Rice
Start: 2019.07.29 16:44:38

Study created: 2019.07.29 16:44:38

Study build station data: LMS TV 2019-07-29

Proposal: K31GL-D D7 LD APP DE SOTO, TX
File number: K31GL_Ch07_1.5kW_KAT265deg_Mv2Hg2
Facility ID: 52923
Station data: User record
Record ID: 64
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KPLC	D7	DT	LIC	LAKE CHARLES, LA	BLCDT20091202ABY	466.7 km
No	KOCO-TV	D7	DT	LIC	OKLAHOMA CITY, OK	BLCDT20100615ACT	316.0
No	KTBC	D7	DT	LIC	AUSTIN, TX	BLCDT20100122ACM	278.0
No	KTBC	D7	DT	APP	AUSTIN, TX	BLANK0000035707	278.0
Yes	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	20.3
Yes	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	20.1
No	KHXL-LP	N7-	TX	LIC	HUNTSVILLE, TX	BLTVL20010301ACH	272.9
Yes	K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	37.6
No	KETX-LP	N7+	TX	LIC	LIVINGSTON, TX	BLTVL20060131BQR	302.3
Yes	KLTV	D7	DT	LIC	TYLER, TX	BLCDT20090622AAT	176.6
No	WFAA	D8	DT	LIC	DALLAS, TX	BLCDT20110110AAH	20.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7
Mask: Full Service
Latitude: 32 44 20.10 N (NAD83)
Longitude: 97 5 29.80 W
Height AMSL: 281.9 m
HAAT: 0.0 m
Peak ERP: 1.40 kW
Antenna: KAT DRV-2x2 355.0 deg
Elev Pattnr: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.245 kW	117.9 m	31.0 km
45.0	0.006	129.8	13.8
90.0	0.053	128.5	23.3
135.0	0.002	117.9	9.9
180.0	0.445	96.3	32.1
225.0	1.07	90.2	37.1
270.0	1.30	99.6	39.9
315.0	1.25	120.1	42.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 113 m

Distance to Canadian border: 1598.1 km

Distance to Mexican border: 524.3 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 187.6 degrees Distance: 593.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 320.8 degrees Distance: 1095.3 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km

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

Interference to BLANK0000054800 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	20.3 km
	KTBC	D7	DT	LIC	AUSTIN, TX	BLCDT20100122ACM	265.1
	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	0.2
	K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	42.1
	KLTV	D7	DT	LIC	TYLER, TX	BLCDT20090622AAT	163.9
	WFAA	D8	DT	LIC	DALLAS, TX	BLCDT20110110AAH	1.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4897.4 4,485,575		4883.4 4,484,856		407.6 274,056		400.6 268,840	1.72 1.90
Undesired		Total IX		Unique IX, before		Unique IX, after	
K31GL-D D7 LD APP		2131.5 1,600,257				7.0 5,216	
KVFW-LD D7 LD CP		4462.8 4,204,567		2662.6 2,864,913		1782.6 2,162,801	
K31MU-D D7 LD CP		1116.9 924,516		5.0 2,016		1.0 2,003	
KLTV D7 DT LIC		18.0 12,686		0.0 0		0.0 0	
WFAA D8 DT LIC		991.8 617,526		4.0 3,305		2.0 3,305	

Interference to BLANK0000053902 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	20.1 km
	KTBC	D7	DT	LIC	AUSTIN, TX	BLCDT20100122ACM	265.1
	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	0.2
	K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	41.9
	KLTV	D7	DT	LIC	TYLER, TX	BLCDT20090622AAT	164.0
	WFAA	D8	DT	LIC	DALLAS, TX	BLCDT20110110AAH	0.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9653.3 4,918,859		9588.1 4,914,777		4075.7 567,871		4031.6 556,975	1.08 1.92
Undesired		Total IX		Unique IX, before		Unique IX, after	
K31GL-D D7 LD APP		2510.9 1,558,457				44.2 10,896	
KTBC D7 DT LIC		1.0 15		0.0 0		0.0 0	
K25FW-D D7 LD CP		4551.9 4,248,650		2920.4 3,039,800		1963.4 2,355,157	
K31MU-D D7 LD CP		1894.8 966,960		646.5 81,494		257.1 23,994	
KLTV D7 DT LIC		32.1 3,171		3.0 187		2.0 187	
WFAA D8 DT LIC		841.4 370,178		210.4 10,806		192.2 10,726	

Interference to BLANK0000053902 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	20.1 km
	KTBC	D7	DT	APP	AUSTIN, TX	BLANK0000035707	265.1
	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	0.2

K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	41.9
KLTV	D7	DT	LIC	TYLER, TX	BLCDDT20090622AAT	164.0
WFAA	D8	DT	LIC	DALLAS, TX	BLCDDT20110110AAH	0.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
9653.3 4,918,859	9588.1 4,914,777	4074.7 567,871	4031.6 556,975	1.06 1.92

Undesired	Total IX	Unique IX, before	Unique IX, after
K31GL-D D7 LD APP 2510.9	1,558,457	43.2	10,896
KTBC D7 DT APP 15.1	138	1.0	0
K25FW-D D7 LD CP 4551.9	4,248,650	2920.4 3,039,800	1963.4 2,355,157
K31MU-D D7 LD CP 1894.8	966,960	643.5 81,479	257.1 23,994
KLTV D7 DT LIC 32.1	3,171	3.0 187	2.0 187
WFAA D8 DT LIC 841.4	370,178	204.3 10,730	191.2 10,726

Interference to BLANK0000051796 CP scenario 1

**IX: 6.30% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	37.6 km
	KTBC	D7	DT	LIC	AUSTIN, TX	BLCDDT20100122ACM	250.1
	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	42.1
	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	41.9
	KLTV	D7	DT	LIC	TYLER, TX	BLCDDT20090622AAT	205.5
	WFAA	D8	DT	LIC	DALLAS, TX	BLCDDT20110110AAH	41.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2955.4 1,744,983	2921.5 1,730,353	1002.5 546,631	956.5 512,203	4.59 6.30

Undesired	Total IX	Unique IX, before	Unique IX, after
K31GL-D D7 LD APP 1296.9	1,059,293	46.0	34,428
K25FW-D D7 LD CP 1030.1	961,477	6.0	6,475
KVFW-LD D7 LD CP 1906.9	1,173,855	868.8 217,151	578.0 115,801
KLTV D7 DT LIC 13.0	5,765	1.0 570	1.0 570
WFAA D8 DT LIC 157.2	136,426	4.0 1,890	1.0 328

Interference to BLANK0000051796 CP scenario 2

**IX: 6.30% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	37.6 km
	KTBC	D7	DT	APP	AUSTIN, TX	BLANK0000035707	250.1
	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	42.1
	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	41.9
	KLTV	D7	DT	LIC	TYLER, TX	BLCDDT20090622AAT	205.5
	WFAA	D8	DT	LIC	DALLAS, TX	BLCDDT20110110AAH	41.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2955.4 1,744,983	2921.5 1,730,353	1001.5 546,165	955.5 511,737	4.60 6.30

Undesired	Total IX	Unique IX, before	Unique IX, after
K31GL-D D7 LD APP 1296.9	1,059,293	46.0	34,428
KTBC D7 DT APP 2.0	3,429	1.0	466
K25FW-D D7 LD CP 1030.1	961,477	6.0	6,475
KVFW-LD D7 LD CP 1906.9	1,173,855	868.8 217,151	578.0 115,801
KLTV D7 DT LIC 13.0	5,765	1.0 570	1.0 570
WFAA D8 DT LIC 157.2	136,426	4.0 1,890	1.0 328

Interference to BLCDDT20090622AAT LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLTV	D7	DT	LIC	TYLER, TX	BLCDDT20090622AAT	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	176.6 km
	KETS	D7	DT	LIC	LITTLE ROCK, AR	BLEDT20090615ABT	349.5
	KPLC	D7	DT	LIC	LAKE CHARLES, LA	BLCDDT20091202ABY	317.8
	KOCO-TV	D7	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20100615ACT	395.7

KTBC		D7	DT	LIC	AUSTIN, TX		BLCDDT20100122ACM		347.8
WFAA		D8	DT	LIC	DALLAS, TX		BLCDDT20110110AAH		164.8
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36567.5	1,069,789	34937.6	1,048,849	33416.0	996,850	33416.0	996,850	0.00	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
K31GL-D D7 LD APP		7.0	202			0.0	0		
KETS D7 DT LIC		139.8	1,350	89.7	545	89.7	545		
KPLC D7 DT LIC		617.3	10,088	545.0	8,650	545.0	8,650		
KOCO-TV D7 DT LIC		23.9	38	23.9	38	23.9	38		
KTBC D7 DT LIC		265.6	9,963	226.3	9,214	226.3	9,214		
WFAA D8 DT LIC		564.5	32,114	547.4	31,998	541.4	31,811		

Interference to BLCDDT20090622AAT LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLTV	D7	DT	LIC	TYLER, TX	BLCDDT20090622AAT	
Undesireds:	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	176.6 km
	KETS	D7	DT	LIC	LITTLE ROCK, AR	BLED20090615ABT	349.5
	KPLC	D7	DT	LIC	LAKE CHARLES, LA	BLCDDT20091202ABY	317.8
	KOCO-TV	D7	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20100615ACT	395.7
	KTBC	D7	DT	APP	AUSTIN, TX	BLANK0000035707	347.8
	WFAA	D8	DT	LIC	DALLAS, TX	BLCDDT20110110AAH	164.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36567.5	1,069,789	34937.6	1,048,849	33324.1	995,885	33324.1	995,885	0.00	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
K31GL-D D7 LD APP		7.0	202			0.0	0		
KETS D7 DT LIC		139.8	1,350	89.7	545	89.7	545		
KPLC D7 DT LIC		617.3	10,088	534.8	8,616	534.8	8,616		
KOCO-TV D7 DT LIC		23.9	38	23.9	38	23.9	38		
KTBC D7 DT APP		404.7	11,508	318.2	10,179	318.2	10,179		
WFAA D8 DT LIC		564.5	32,114	510.3	31,452	504.3	31,265		

Interference to proposal scenario 1

85.74% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K31GL-D	D7	LD	APP	DE SOTO, TX	K31GL_Ch07_1.5kW_KAT26	
Undesireds:	KTBC	D7	DT	LIC	AUSTIN, TX	BLCDDT20100122ACM	278.0 km
	K25FW-D	D7	LD	CP	CORSICANA, TX	BLANK0000054800	20.3
	KVFW-LD	D7	LD	CP	FORT WORTH, TX	BLANK0000053902	20.1
	K31MU-D	D7	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000051796	37.6
	KLTV	D7	DT	LIC	TYLER, TX	BLCDDT20090622AAT	176.6
	WFAA	D8	DT	LIC	DALLAS, TX	BLCDDT20110110AAH	20.1

Service area		Terrain-limited		IX-free		Percent IX	
2949.9	2,139,789	2936.8	2,137,928	420.2	304,909	85.69	85.74
Undesired		Total IX		Unique IX		Prct Unique IX	
K25FW-D D7 LD CP		1851.9	1,573,591	6.0	4,271	0.20	0.20
KVFW-LD D7 LD CP		2454.6	1,801,638	360.0	126,222	12.26	5.90
K31MU-D D7 LD CP		1206.3	819,603	32.0	19,710	1.09	0.92
KLTV D7 DT LIC		27.0	9,301	1.0	107	0.03	0.01
WFAA D8 DT LIC		379.9	122,673	7.0	3,620	0.24	0.17