tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: 01107_05272021_KTXH_51569, Model: Longley-Rice
Start: 2021.05.27 17:40:59

Study created: 2021.05.27 17:40:59

Study build station data: LMS TV 2021-05-26

    Proposal: KTXH D19 DT APP HOUSTON, TX
 File number: 01084_05142021_KTXH_51569
 Facility ID: 51569
Station data: User record
   Record ID: 1267
     Country: U.S.
        Zone: III

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KVHP	D18	DT	LIC	LAKE CHARLES, LA	BLANK0000064019	201.1 km
No	KAJN-CD	D19	DC	LIC	LAFAYETTE, LA	BLANK0000063952	341.3
No	KARD	D19	DT	LIC	WEST MONROE, LA	BLANK0000063972	422.7
Yes	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	237.2
Yes	KGBS-CD	D19	DC	LIC	AUSTIN, TX	BLDTL20141118ARA	237.2
No	KSCC	D19	DT	LIC	CORPUS CHRISTI, TX	BLANK0000108393	288.5
Yes	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	358.2
No	KLDO-TV	D19	DT	LIC	LAREDO, TX	BLCDT20110421ABF	454.1
No	KLTL-TV	D20	DT	LIC	LAKE CHARLES, LA	BLEDT20100216ABR	256.8
Yes	KUVM-CD	D20	DC	LIC	MISSOURI CITY, TX	BLANK0000071589	2.1
No	KAVU-TV	D20	DT	LIC	VICTORIA, TX	BLANK0000112500	177.9
No	XERV	D19	DT	LIC	REYNOSA, TA	BLANKBPFS20160318ABA	465.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D19
   Latitude: 29 34 29.00 N (NAD83)
  Longitude: 95 29 38.00 W

Height AMSL: 617.2 m
HAAT: 598.0 m
Peak ERP: 1000 kW
Antenna: RFS PEP46T_503MHz_Hpol_0421_HRP_FCC_FILE 0.0 deg
Elev Pattrn: RFS PEP46T_503MHz_Hpol_0421_VRP
Elec Tilt: 1.00

39.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	479 kW	598.5 m	117.3 km
45.0	541	600.6	118.6
90.0	819	599.6	122.6
135.0	511	598.2	117.9
180.0	629	599.0	119.9
225.0	793	598.0	122.2
270.0	615	596.3	119.6
315.0	856	593.2	122.7

ERP exceeds maximum
ERP: 1000 kW ERP maximum: 330 kW

Distance to Canadian border: 1763.2 km

Distance to Mexican border: 424.1 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 225.1 degrees Distance: 332.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 325.5 degrees Distance: 1468.1 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 BLANK0000127539 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	236.2 km
	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	237.2
	KNIC-DT	D18	DT	LIC	BLANCO, TX	BLCDT20091019ADG	97.3
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	259.8
	KHPM-CD	D20	DC	LIC	SAN MARCOS, TX	BLANK0000074893	49.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8441.7	1,653,285	8317.4	1,648,429	8257.2	1,629,453	8261.2	1,629,509	-0.05	-0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KTXH D19 DT BL	40.1	3,907	32.1	274		
KTXH D19 DT APP	40.1	3,851			28.1	218
KNIC-DT D18 DT LIC	4.0	126	0.0	0	0.0	0
KTVT D19 DT LIC	12.0	223	12.0	223	8.0	223
KHPM-CD D20 DC LIC	12.1	18,353	8.1	14,846	8.1	14,846

Interference to BLDTL20141118ARA LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGBS-CD	D19	DC	LIC	AUSTIN, TX	BLDTL20141118ARA	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	236.2 km
	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	237.2
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	259.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5506.0	1,525,697	5445.9	1,522,709	5425.9	1,520,235	5425.9	1,520,235	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KTXH D19 DT BL	12.0	2,455	8.0	2,436		
KTXH D19 DT APP	8.0	2,436			8.0	2,436
KTVT D19 DT LIC	12.0	38	8.0	19	12.0	38

Interference to BLCDT20121115ABM LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	358.9 km

	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	358.2
	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	339.8
	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	259.8
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
45638.0	6,912,366	45268.2	6,908,715	45084.0	6,906,796	45079.9	6,906,791	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KTXH D19 DT BL	20.0	171	20.0	171		
KTXH D19 DT APP	24.0	176			24.0	176
KAUT-TV D19 DT LIC	119.9	1,164	119.9	1,164	119.9	1,164
KGBS-CD D19 DC CP	20.3	67	20.3	67	20.3	67
KFXK-TV D20 DT LIC	24.2	517	24.2	517	24.2	517

Interference to BLCDT20121115ABM LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	358.9 km
	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	358.2
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	339.8
	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	259.8
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
45638.0	6,912,366	45268.2	6,908,715	45068.0	6,906,543	45064.0	6,906,538	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KTXH D19 DT BL	20.0	171	20.0	171		
KTXH D19 DT APP	24.0	176			24.0	176
KAUT-TV D19 DT CP	135.9	1,417	135.9	1,417	135.9	1,417
KGBS-CD D19 DC CP	20.3	67	20.3	67	20.3	67
KFXK-TV D20 DT LIC	24.2	517	24.2	517	24.2	517

Interference to BLCDT20121115ABM LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	358.9 km
	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	358.2

	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	339.8
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
45638.0	6,912,366	45268.2	6,908,715	45104.2	6,906,863	45100.2	6,906,858	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KTXH D19 DT BL	20.0	171		20.0	171		
KTXH D19 DT APP	24.0	176				24.0	176
KAUT-TV D19 DT LIC	119.9	1,164		119.9	1,164	119.9	1,164
KFXK-TV D20 DT LIC	24.2	517		24.2	517	24.2	517

Interference to BLCDT20121115ABM LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	358.9 km
	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	358.2
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	339.8
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
45638.0	6,912,366	45268.2	6,908,715	45088.3	6,906,610	45084.2	6,906,605	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KTXH D19 DT BL	20.0	171		20.0	171		
KTXH D19 DT APP	24.0	176				24.0	176
KAUT-TV D19 DT CP	135.9	1,417		135.9	1,417	135.9	1,417
KFXK-TV D20 DT LIC	24.2	517		24.2	517	24.2	517

Interference to BLANK0000071589 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KUVM-CD	D20	DC	LIC	MISSOURI CITY, TX	BLANK0000071589	
Undesireds:	KTXH	D19	DT	BL	HOUSTON, TX	DTVBL51569	0.0 km
	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	2.1
	KZJL	D21	DT	LIC	HOUSTON, TX	BLANK0000072328	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5809.1	4,646,177	5809.1	4,646,177	4857.4	4,449,142	4825.5	4,428,362	0.66	0.47

Undesired		Total IX	Unique IX, before		Unique IX, after	
KTXH D19 DT BL	599.5	134,354	83.8	26,794		
KTXH D19 DT APP	595.3	134,566			115.7	47,574
KZJL D21 DT LIC	867.9	170,241	352.1	62,681	388.3	83,249

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	
Undesireds:	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	237.2 km
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	358.2
	KAVU-TV	D20	DT	LIC	VICTORIA, TX	BLANK0000112500	177.9

Service area		Terrain-limited		IX-free		Percent IX	
45074.5	6,101,252	44990.4	6,100,773	44677.8	6,098,978	0.69	0.03

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KGBS-CD D19 DC CP	48.2	219	8.1	21	0.02	0.00
KTVT D19 DT LIC	280.5	1,770	240.4	1,572	0.53	0.03
KAVU-TV D20 DT LIC	24.1	4	24.1	4	0.05	0.00

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTXH	D19	DT	APP	HOUSTON, TX	01084_05142021_KTXH_51	
Undesireds:	KGBS-CD	D19	DC	LIC	AUSTIN, TX	BLDTL20141118ARA	237.2 km
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	358.2
	KAVU-TV	D20	DT	LIC	VICTORIA, TX	BLANK0000112500	177.9

Service area		Terrain-limited		IX-free		Percent IX	
45074.5	6,101,252	44990.4	6,100,773	44677.8	6,098,978	0.69	0.03

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KGBS-CD D19 DC LIC	48.2	219	8.1	21	0.02	0.00
KTVT D19 DT LIC	280.5	1,770	240.4	1,572	0.53	0.03
KAVU-TV D20 DT LIC	24.1	4	24.1	4	0.05	0.00