

TVStudy Interference & Contour Analysis

prepared 10/29/2018 for

KWEX License Partnership, L.P.

KWEX-DT San Antonio, TX

Channel 24 785 kW-DA 388 m

This Application for Modification of Construction Permit substitutes a ERI antenna for the RFS model currently authorized. Small changes in relative field necessitate a minor reduction of effective radiated power (ERP), from 800 kW to 785 kW, to hold interference to adjacent channel stations KNVA, Austin, TX, and K27LF-D, San Antonio, at and slightly below the level currently authorized, respectively. Interference agreements with both stations were filed with the applications for their current construction permits. The small azimuth radiation pattern differences (0.2 dB, worst case) cause nearly-invisible shifts of the KWEX-DT noise-limited contour. Accordingly, no coverage contour comparison map is included.

No impermissible increase of interference to any station will be caused by the antenna change and ERP reduction, as shown by the TVStudy interference data attached hereto. Please note that attached TVStudy analyses were based on a **cell size of 1 km** and **terrain sampling interval of 0.2 km**, the same parameters as those cited in the KWEX-DT application for its current construction permit. The baseline assignments of KXLK-CD, Austin, and KNIC-CD, San Antonio, were deleted from this analysis because they have non-conflicting construction permits on channels 14 and 27, respectively. The baseline assignment of K27LF-D was superseded by its construction permit, which was granted in coordination with the KWEX-DT construction permit. TVStudy analyses for both the construction permit and proposed modified facility are attached.

TVStudy Analysis of Proposed CP Modification

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: BLANK0000029934 #236, Model: Longley-Rice
Start: 2018.10.28 21:19:18

Study last edited: 2018.10.28 20:19:14

Proposal: KWEX-DT D24 DT CP SAN ANTONIO, TX
File number: BLANK0000029934
Facility ID: 35881
Station data: User record
Record ID: 98
Country: U.S.
Zone: III

Proposal "before": (none)

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KNVA	D23		DT CP	AUSTIN, TX	BLANK0000034842	125.1 km
KNVA	D23		DT BL	AUSTIN, TX	DTVBL144	125.1
KXAS-TV	D24		DT LIC	FORT WORTH, TX	BLANK0000054717	388.1
KETH-TV	D24		DT LIC	HOUSTON, TX	BLEDT20101019ABX	268.7
K27LF-D	D25		DC CP	SAN ANTONIO, TX	BLANK0000030577	0.0
K27LF-D	D25		DC BL	SAN ANTONIO, TX	DTVBL24570	0.0

Record parameters as studied:

Channel: D24
Latitude: 29 16 29.80 N (NAD83)
Longitude: 98 15 53.00 W
Height AMSL: 548.7 m
HAAT: 388.0 m
Peak ERP: 785 kW
Antenna: ERI ATW-S180 325.0 deg
Elev Pattn: Generic
Elec Tilt: 0.75

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	722 kW	374.5 m	103.5 km
45.0	553	374.6	101.1
90.0	137	365.9	89.2
135.0	163	397.3	92.7
180.0	81.9	412.0	88.6
225.0	381	402.5	100.0
270.0	660	391.8	104.1
315.0	779	385.5	105.2

Distance to Canadian border: 1955.1 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 217.1 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 169.5 degrees Distance: 207.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 334.1 degrees Distance: 1361.6 km

Study cell size: 1.00 km
Profile point spacing: 0.20 km

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

Interference to BLANK0000034842 CP scenario 1
**IX: 3.43% interference caused

Call	Chan	Svc	Status	City, State	File Number	Distance
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Broadcast Transmission Services, LLC

Desired:	KNVA	D23	DT	CP	AUSTIN, TX	BLANK0000034842	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
	KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	297.7
	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	235.9
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	263.6
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32516.4 2,550,101	31709.3 2,512,376	31078.9 2,474,254	30237.0 2,389,387	2.71 3.43

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	875.1 97,747		841.9 84,867
KLRU D22 DT LIC	3.0 76	3.0 76	3.0 76
KEDT D23 DT LIC	16.1 7,483	3.0 142	0.0 0
KLTJ D23 DT LIC	337.4 11,081	303.1 4,045	297.0 2,742
KTXD-TV D23 DT CP	290.0 20,499	265.8 19,154	265.8 19,154
KNIC-CD D24 DC BL	23.2 8,720	18.1 6,019	3.0 1,055

Interference to BLANK0000034842 CP scenario 2

**IX: 3.41% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVA	D23	DT	CP	AUSTIN, TX	BLANK0000034842	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
	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
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
32516.4 2,550,101	31709.3 2,512,376	31316.2 2,490,407	30474.4 2,405,540	2.69 3.41			

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	875.1 97,747		841.9 84,867
KLRU D22 DT LIC	3.0 76	3.0 76	3.0 76
KEDT D23 DT LIC	16.1 7,483	3.0 142	0.0 0
KLTJ D23 DT LIC	337.4 11,081	320.2 4,474	314.1 3,171
KTXD-TV D23 DT BL	35.6 3,917	28.5 3,001	28.5 3,001
KNIC-CD D24 DC BL	23.2 8,720	18.1 6,019	3.0 1,055

Interference to DTVBL144 BL scenario 1

**IX: 3.10% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
	KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	297.7
	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	235.9
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	263.6
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
29675.5 2,414,005	29027.0 2,380,132	28566.6 2,342,417	27789.6 2,269,773	2.72 3.10			

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	799.2 81,011		777.1 72,644
KLRU D22 DT LIC	5.0 76	5.0 76	5.0 76
KEDT D23 DT LIC	17.1 6,890	4.0 1,001	3.0 0
KLTJ D23 DT LIC	174.9 11,557	139.5 1,618	133.5 1,060
KTXD-TV D23 DT CP	292.7 28,212	270.4 24,162	270.4 24,162
KNIC-CD D24 DC BL	8.1 4,008	6.0 919	1.0 0

Interference to DTVBL144 BL scenario 2

**IX: 3.07% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km

KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
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
KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
29675.5	2,414,005	29027.0	2,380,132	28809.5	2,364,438	28032.5	2,291,794	2.70 3.07

Undesired		Total IX		Unique IX, before		Unique IX, after
KWEX-DT D24 DT CP	799.2	81,011			777.1	72,644
KLRU D22 DT LIC	5.0	76	5.0	76	5.0	76
KEDT D23 DT LIC	17.1	6,890	4.0	1,001	3.0	0
KLTJ D23 DT LIC	174.9	11,557	155.7	1,756	149.6	1,198
KTXD-TV D23 DT BL	33.6	6,053	27.5	2,141	27.5	2,141
KNIC-CD D24 DC BL	8.1	4,008	6.0	919	1.0	0

Interference to BLANK0000054717 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	0.5
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6
	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
	KPXD-TV	D25	DT	CP	ARLINGTON, TX	BLANK0000054832	0.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
42410.9	6,773,737	41925.3	6,770,013	41849.4	6,767,262	41848.3	6,767,260	0.00 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
KWEX-DT D24 DT CP	3.0	239			1.0	2
KTXD-TV D23 DT CP	7.0	603	7.0	603	7.0	603
KOKH-TV D24 DT LIC	44.7	499	39.8	499	39.8	499
KXLK-CD D24 DC BL	4.0	272	3.0	35	2.0	35
KETH-TV D24 DT LIC	14.2	1,470	13.2	1,233	13.2	1,233
K24HH-D D24 DC LIC	11.9	144	7.0	144	7.0	144

Interference to BLANK0000054717 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	0.5
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6
	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
	KPXD-TV	D25	DT	BL	ARLINGTON, TX	DTVBL68834	4.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
42410.9	6,773,737	41925.3	6,770,013	41845.3	6,767,254	41844.3	6,767,252	0.00 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
KWEX-DT D24 DT CP	3.0	239			1.0	2
KTXD-TV D23 DT CP	7.0	603	7.0	603	7.0	603
KOKH-TV D24 DT LIC	44.7	499	39.8	499	39.8	499
KXLK-CD D24 DC BL	4.0	272	3.0	35	2.0	35
KETH-TV D24 DT LIC	14.2	1,470	13.2	1,233	13.2	1,233
K24HH-D D24 DC LIC	11.9	144	7.0	144	7.0	144
KPXD-TV D25 DT BL	4.0	8	4.0	8	4.0	8

Interference to BLANK0000054717 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6

K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
KPXD-TV	D25	DT	CP	ARLINGTON, TX	BLANK0000054832	0.7
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42410.9	6,773,737	41925.3	6,770,013	41856.3	6,767,865	41855.3 6,767,863 0.00 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after	
KWEX-DT D24 DT CP	3.0	239			1.0	2
KOKH-TV D24 DT LIC	44.7	499	39.8	499	39.8	499
KXLK-CD D24 DC BL	4.0	272	3.0	35	2.0	35
KETH-TV D24 DT LIC	14.2	1,470	13.2	1,233	13.2	1,233
K24HH-D D24 DC LIC	11.9	144	7.0	144	7.0	144

Interference to BLANK0000054717 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717			
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km		
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20041207ACV	332.9		
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5		
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6		
	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0		
	KPXD-TV	D25	DT	BL	ARLINGTON, TX	DTVBL68834	4.7		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
42410.9	6,773,737	41925.3	6,770,013	41852.3	6,767,857	41851.3	6,767,855	0.00	0.00

Interference to BLEDT20101019ABX LIC scenario 1

Desired:	Call KETH-TV	Chan D24	Svc DT	Status LIC	City, State HOUSTON, TX	File Number BLEDT20101019ABX	Distance		
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km		
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3		
	KFAM-CD	D24	DC	CP	LAKE CHARLES, LA	BLANK0000028592	223.9		
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8		
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6		
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	1.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
43511.9	6,088,892	43392.9	6,088,401	43202.9	6,086,615	43167.8	6,086,503	0.08	0.00

Interference to BLEDT20101019ABX LIC scenario 2

Desired:	Call KETH-TV	Chan D24	Svc DT	Status LIC	City, State HOUSTON, TX	File Number BLEDT20101019ABX	Distance		
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km		
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3		
	KFAM-CD	D24	DC	CP	LAKE CHARLES, LA	BLANK0000028592	223.9		
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8		
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6		
	KYAZ	D25	DT	BL	KATY, TX	DTVBL31870	1.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
43511.9	6,088,892	43392.9	6,088,401	43209.9	6,086,796	43174.8	6,086,684	0.08	0.00

KFAM-CD D24 DC CP	1.0	0	1.0	0	1.0	0
KXLK-CD D24 DC BL	51.1	86	25.1	69	9.0	53
KXAS-TV D24 DT LIC	149.9	525	123.9	508	83.9	490
KYAZ D25 DT BL	7.0	1,011	7.0	1,011	7.0	1,011

Interference to BLEDT20101019ABX LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3
	KFAM-CD	D24	DC	BL	LAKE CHARLES, LA	DTVBL59500	223.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	1.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
43511.9 6,088,892	43392.9 6,088,401	43202.9 6,086,615	43167.8 6,086,503	0.08 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	116.2 163	35.1 112	
KFAM-CD D24 DC BL	1.0 0	1.0 0	
KXLK-CD D24 DC BL	51.1 86	25.1 69	
KXAS-TV D24 DT LIC	149.9 525	123.9 508	
KYAZ D25 DT CP	14.0 1,192	14.0 1,192	

Interference to BLEDT20101019ABX LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3
	KFAM-CD	D24	DC	BL	LAKE CHARLES, LA	DTVBL59500	223.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6
	KYAZ	D25	DT	BL	KATY, TX	DTVBL31870	1.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
43511.9 6,088,892	43392.9 6,088,401	43209.9 6,086,796	43174.8 6,086,684	0.08 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	116.2 163	35.1 112	
KFAM-CD D24 DC BL	1.0 0	1.0 0	
KXLK-CD D24 DC BL	51.1 86	25.1 69	
KXAS-TV D24 DT LIC	149.9 525	123.9 508	
KYAZ D25 DT BL	7.0 1,011	7.0 1,011	

Interference to BLANK0000030577 CP scenario 1

**IX: 0.56% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000030577	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	0.0 km
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	268.6
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	KPXL-TV	D26	DT	LIC	UVALDE, TX	BLCDT20090612AHU	85.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7666.8 1,935,667	7652.7 1,935,014	7633.5 1,932,798	7558.7 1,921,956	0.98 0.56

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	75.7 10,842	74.7 10,842	
KNIC-CD D24 DC BL	2.0 270	2.0 270	
KPXL-TV D26 DT LIC	17.2 1,946	17.2 1,946	

Interference to BLANK0000030577 CP scenario 2

**IX: 0.56% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000030577	

Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	0.0 km
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KYAZ	D25	DT	BL	KATY, TX	DTVBL31870	268.6
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	KPXL-TV	D26	DT	LIC	UVALDE, TX	BLCDT20090612AHU	85.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7666.8 1,935,667	7652.7 1,935,014	7631.5 1,932,767	7557.7 1,921,956	0.97 0.56

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	75.7 10,842		73.7 10,811
KNIC-CD D24 DC BL	2.0 270	2.0 270	2.0 270
KYAZ D25 DT BL	2.0 31	2.0 31	1.0 0
KPXL-TV D26 DT LIC	17.2 1,946	17.2 1,946	16.2 1,946

Interference to DTVBL24570 BL scenario 1
 **IX: 21.35% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K27LF-D	D25	DC	BL	SAN ANTONIO, TX	DTVBL24570	

Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	0.0 km
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	268.6
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	KPXL-TV	D26	DT	LIC	UVALDE, TX	BLCDT20090612AHU	85.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2473.9 1,607,099	2470.9 1,607,058	2457.7 1,598,717	1543.6 1,257,379	37.19 21.35

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	926.2 349,679		914.1 341,338
KNIC-CD D24 DC BL	5.0 6,491	5.0 6,491	0.0 0
KPXL-TV D26 DT LIC	8.1 1,850	8.1 1,850	1.0 0

Interference to proposal scenario 1
 21.34% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	

Undesireds:	KNVA	D23	DT	CP	AUSTIN, TX	BLANK0000034842	125.1 km
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	124.8
	KVEO-TV	D24	DT	LIC	BROWNSVILLE, TX	BLCDT20050630AGL	355.3
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	388.1
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	268.7
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000030577	0.0

Service area	Terrain-limited	IX-free	Percent IX
30352.2 2,376,834	29874.8 2,370,148	26447.2 1,864,341	11.47 21.34

Undesired	Total IX	Unique IX	Prcnt Unique IX
KNVA D23 DT CP	459.6 37,793	7.0 220	0.02 0.01
KXLK-CD D24 DC BL	1857.7 106,018	1226.4 66,086	4.11 2.79
KVEO-TV D24 DT LIC	12.9 23	1.0 16	0.00 0.00
KXAS-TV D24 DT LIC	18.0 369	0.0 0	0.00 0.00
KETH-TV D24 DT LIC	242.6 6,343	30.3 14	0.10 0.00
KNIC-CD D24 DC BL	1800.5 406,541	1443.7 399,132	4.83 16.84

Interference to proposal scenario 2
 21.33% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	

Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	125.1 km
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	124.8
	KVEO-TV	D24	DT	LIC	BROWNSVILLE, TX	BLCDT20050630AGL	355.3
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	388.1
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	268.7
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5

K27LF-D D25 DC CP SAN ANTONIO, TX BLANK0000030577 0.0

Service area	Terrain-limited	IX-free	Percent IX
30352.2 2,376,834	29874.8 2,370,148	26449.2 1,864,480	11.47 21.33

Undesired	Total IX	Unique IX	Prcnt Unique IX
KNVA D23 DT BL	392.4 25,106	5.0 81	0.02 0.00
KXLK-CD D24 DC BL	1857.7 106,018	1279.6 77,701	4.28 3.28
KVEO-TV D24 DT LIC	12.9 23	1.0 16	0.00 0.00
KXAS-TV D24 DT LIC	18.0 369	0.0 0	0.00 0.00
KETH-TV D24 DT LIC	242.6 6,343	30.3 14	0.10 0.00
KNIC-CD D24 DC BL	1800.5 406,541	1443.7 399,132	4.83 16.84

TVStudy Analysis of Granted CP

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: BLANK0000029934, Model: Longley-Rice
Start: 2018.10.28 21:18:35

Study last edited: 2018.10.28 20:18:27

Proposal: KWEX-DT D24 DT CP SAN ANTONIO, TX
File number: BLANK0000029934
Facility ID: 35881
Station data: LMS TV 2018-10-27
Record ID: 25076f915f0d91b4015f35a68a6a58d1
Country: U.S.
Zone: III

Proposal "before": (none)

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KNVA	D23		DT CP	AUSTIN, TX	BLANK0000034842	125.1 km
KNVA	D23		DT BL	AUSTIN, TX	DTVBL144	125.1
KXAS-TV	D24		DT LIC	FORT WORTH, TX	BLANK0000054717	388.1
KETH-TV	D24		DT LIC	HOUSTON, TX	BLEDT20101019ABX	268.7
K27LF-D	D25		DC CP	SAN ANTONIO, TX	BLANK0000030577	0.0
K27LF-D	D25		DC BL	SAN ANTONIO, TX	DTVBL24570	0.0

Record parameters as studied:

Channel: D24
Latitude: 29 16 29.80 N (NAD83)
Longitude: 98 15 53.00 W
Height AMSL: 548.7 m
HAAT: 388.0 m
Peak ERP: 800 kW
Antenna: RFS-SAA24-S180-J300-ES6R-24 (ID 1002172) 325.0 deg
Elev Pattn: Generic
Elec Tilt: 0.75

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	722 kW	374.5 m	103.5 km
45.0	551	374.6	101.0
90.0	138	365.9	89.3
135.0	162	397.3	92.7
180.0	84.5	412.0	88.9
225.0	381	402.5	99.9
270.0	662	391.8	104.2
315.0	784	385.5	105.2

Distance to Canadian border: 1955.1 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 217.1 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 169.5 degrees Distance: 207.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 334.1 degrees Distance: 1361.6 km

Study cell size: 1.00 km
Profile point spacing: 0.20 km

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

Interference to BLANK0000034842 CP scenario 1
**IX: 3.43% interference caused

Call	Chan	Svc	Status	City, State	File Number	Distance
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Broadcast Transmission Services, LLC

Desired:	KNVA	D23	DT	CP	AUSTIN, TX	BLANK0000034842	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
	KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	297.7
	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	235.9
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	263.6
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32516.4 2,550,101	31709.3 2,512,376	31078.9 2,474,254	30233.0 2,389,387	2.72 3.43

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	879.2 97,747		845.9 84,867
KLRU D22 DT LIC	3.0 76	3.0 76	3.0 76
KEDT D23 DT LIC	16.1 7,483	3.0 142	0.0 0
KLTJ D23 DT LIC	337.4 11,081	303.1 4,045	297.0 2,742
KTXD-TV D23 DT CP	290.0 20,499	265.8 19,154	265.8 19,154
KNIC-CD D24 DC BL	23.2 8,720	18.1 6,019	3.0 1,055

Interference to BLANK0000034842 CP scenario 2

**IX: 3.41% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVA	D23	DT	CP	AUSTIN, TX	BLANK0000034842	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
	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
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32516.4 2,550,101	31709.3 2,512,376	31316.2 2,490,407	30470.3 2,405,540	2.70 3.41

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	879.2 97,747		845.9 84,867
KLRU D22 DT LIC	3.0 76	3.0 76	3.0 76
KEDT D23 DT LIC	16.1 7,483	3.0 142	0.0 0
KLTJ D23 DT LIC	337.4 11,081	320.2 4,474	314.1 3,171
KTXD-TV D23 DT BL	35.6 3,917	28.5 3,001	28.5 3,001
KNIC-CD D24 DC BL	23.2 8,720	18.1 6,019	3.0 1,055

Interference to DTVBL144 BL scenario 1

**IX: 3.10% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
	KEDT	D23	DT	LIC	CORPUS CHRISTI, TX	BLEDT20081016ABR	297.7
	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	235.9
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	263.6
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29675.5 2,414,005	29027.0 2,380,132	28566.6 2,342,417	27789.6 2,269,773	2.72 3.10

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	799.2 81,011		777.1 72,644
KLRU D22 DT LIC	5.0 76	5.0 76	5.0 76
KEDT D23 DT LIC	17.1 6,890	4.0 1,001	3.0 0
KLTJ D23 DT LIC	174.9 11,557	139.5 1,618	133.5 1,060
KTXD-TV D23 DT CP	292.7 28,212	270.4 24,162	270.4 24,162
KNIC-CD D24 DC BL	8.1 4,008	6.0 919	1.0 0

Interference to DTVBL144 BL scenario 2

**IX: 3.07% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	125.1 km

KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	0.6
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
KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	120.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29675.5 2,414,005	29027.0 2,380,132	28809.5 2,364,438	28032.5 2,291,794	2.70 3.07

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	799.2 81,011	777.1 72,644	
KLRU D22 DT LIC	5.0 76	5.0 76	
KEDT D23 DT LIC	17.1 6,890	3.0 0	
KLTJ D23 DT LIC	174.9 11,557	149.6 1,198	
KTXD-TV D23 DT BL	33.6 6,053	27.5 2,141	
KNIC-CD D24 DC BL	8.1 4,008	1.0 0	

Interference to BLANK0000054717 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	0.5
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6
	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
	KPXD-TV	D25	DT	CP	ARLINGTON, TX	BLANK0000054832	0.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
42410.9 6,773,737	41925.3 6,770,013	41849.4 6,767,262	41848.3 6,767,260	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	3.0 239	1.0 2	
KTXD-TV D23 DT CP	7.0 603	7.0 603	
KOKH-TV D24 DT LIC	44.7 499	39.8 499	
KXLK-CD D24 DC BL	4.0 272	3.0 35	
KETH-TV D24 DT LIC	14.2 1,470	13.2 1,233	
K24HH-D D24 DC LIC	11.9 144	7.0 144	

Interference to BLANK0000054717 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KTXD-TV	D23	DT	CP	GREENVILLE, TX	BLANK0000034280	0.5
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6
	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
	KPXD-TV	D25	DT	BL	ARLINGTON, TX	DTVBL68834	4.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
42410.9 6,773,737	41925.3 6,770,013	41845.3 6,767,254	41844.3 6,767,252	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	3.0 239	1.0 2	
KTXD-TV D23 DT CP	7.0 603	7.0 603	
KOKH-TV D24 DT LIC	44.7 499	39.8 499	
KXLK-CD D24 DC BL	4.0 272	3.0 35	
KETH-TV D24 DT LIC	14.2 1,470	13.2 1,233	
K24HH-D D24 DC LIC	11.9 144	7.0 144	
KPXD-TV D25 DT BL	4.0 8	4.0 8	

Interference to BLANK0000054717 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6

K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
KPXD-TV	D25	DT	CP	ARLINGTON, TX	BLANK0000054832	0.7
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42410.9	6,773,737	41925.3	6,770,013	41856.3	6,767,865	41855.3 6,767,863 0.00 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after	
KWEX-DT D24 DT CP	3.0	239			1.0	2
KOKH-TV D24 DT LIC	44.7	499	39.8	499	39.8	499
KXLK-CD D24 DC BL	4.0	272	3.0	35	2.0	35
KETH-TV D24 DT LIC	14.2	1,470	13.2	1,233	13.2	1,233
K24HH-D D24 DC LIC	11.9	144	7.0	144	7.0	144

Interference to BLANK0000054717 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	388.1 km
	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLCDT20041207ACV	332.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	263.5
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	362.6
	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	207.0
	KPXD-TV	D25	DT	BL	ARLINGTON, TX	DTVBL68834	4.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42410.9	6,773,737	41925.3	6,770,013	41852.3	6,767,857	41851.3 6,767,855	0.00 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after		
KWEX-DT	D24	DT	CP	3.0	239		
KOKH-TV	D24	DT	LIC	44.7	499	39.8	499
KXLK-CD	D24	DC	BL	4.0	272	3.0	35
KETH-TV	D24	DT	LIC	14.2	1,470	13.2	1,233
K24HH-D	D24	DC	LIC	11.9	144	7.0	144
KPXD-TV	D25	DT	BL	4.0	8	4.0	8

Interference to BLEDT20101019ABX LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX			
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km		
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3		
	KFAM-CD	D24	DC	CP	LAKE CHARLES, LA	BLANK0000028592	223.9		
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8		
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6		
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	1.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
43511.9	6,088,892	43392.9	6,088,401	43202.9	6,086,615	43167.8	6,086,503	0.08	0.00

Interference to BLEDT20101019ABX LIC scenario 2

Desired:	Call KETH-TV	Chan D24	Svc DT	Status LIC	City, State HOUSTON, TX	File Number BLEDT20101019ABX	Distance		
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km		
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3		
	KFAM-CD	D24	DC	CP	LAKE CHARLES, LA	BLANK0000028592	223.9		
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8		
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6		
	KYAZ	D25	DT	BL	KATY, TX	DTVBL31870	1.0		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
43511.9	6,088,892	43392.9	6,088,401	43209.9	6,086,796	43174.8	6,086,684	0.08	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KWEX-DT D24 DT CP		116.2		163		35.1		112	

KFAM-CD D24 DC CP	1.0	0	1.0	0	1.0	0
KXLK-CD D24 DC BL	51.1	86	25.1	69	9.0	53
KXAS-TV D24 DT LIC	149.9	525	123.9	508	83.9	490
KYAZ D25 DT BL	7.0	1,011	7.0	1,011	7.0	1,011

Interference to BLEDT20101019ABX LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3
	KFAM-CD	D24	DC	BL	LAKE CHARLES, LA	DTVBL59500	223.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	1.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
43511.9 6,088,892	43392.9 6,088,401	43202.9 6,086,615	43167.8 6,086,503	0.08 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	116.2 163	35.1 112	
KFAM-CD D24 DC BL	1.0 0	1.0 0	
KXLK-CD D24 DC BL	51.1 86	25.1 69	
KXAS-TV D24 DT LIC	149.9 525	123.9 508	
KYAZ D25 DT CP	14.0 1,192	14.0 1,192	

Interference to BLEDT20101019ABX LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	268.7 km
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	416.3
	KFAM-CD	D24	DC	BL	LAKE CHARLES, LA	DTVBL59500	223.9
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	235.8
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	362.6
	KYAZ	D25	DT	BL	KATY, TX	DTVBL31870	1.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
43511.9 6,088,892	43392.9 6,088,401	43209.9 6,086,796	43174.8 6,086,684	0.08 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	116.2 163	35.1 112	
KFAM-CD D24 DC BL	1.0 0	1.0 0	
KXLK-CD D24 DC BL	51.1 86	25.1 69	
KXAS-TV D24 DT LIC	149.9 525	123.9 508	
KYAZ D25 DT BL	7.0 1,011	7.0 1,011	

Interference to BLANK0000030577 CP scenario 1

**IX: 0.58% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000030577	
Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	0.0 km
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	268.6
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	KPXL-TV	D26	DT	LIC	UVALDE, TX	BLCDT20090612AHU	85.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7666.8 1,935,667	7652.7 1,935,014	7633.5 1,932,798	7555.7 1,921,635	1.02 0.58

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	78.8 11,163	77.8 11,163	
KNIC-CD D24 DC BL	2.0 270	2.0 270	
KPXL-TV D26 DT LIC	17.2 1,946	17.2 1,946	

Interference to BLANK0000030577 CP scenario 2

**IX: 0.58% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000030577	

Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	0.0 km
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KYAZ	D25	DT	BL	KATY, TX	DTVBL31870	268.6
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	KPXL-TV	D26	DT	LIC	UVALDE, TX	BLCDT20090612AHU	85.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7666.8 1,935,667	7652.7 1,935,014	7631.5 1,932,767	7554.7 1,921,635	1.01 0.58

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	78.8 11,163		76.8 11,132
KNIC-CD D24 DC BL	2.0 270	2.0 270	2.0 270
KYAZ D25 DT BL	2.0 31	2.0 31	1.0 0
KPXL-TV D26 DT LIC	17.2 1,946	17.2 1,946	16.2 1,946

Interference to DTVBL24570 BL scenario 1
 **IX: 21.35% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K27LF-D	D25	DC	BL	SAN ANTONIO, TX	DTVBL24570	

Undesireds:	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	0.0 km
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KYAZ	D25	DT	CP	KATY, TX	BLANK0000034934	268.6
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	KPXL-TV	D26	DT	LIC	UVALDE, TX	BLCDT20090612AHU	85.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2473.9 1,607,099	2470.9 1,607,058	2457.7 1,598,717	1540.6 1,257,355	37.32 21.35

Undesired	Total IX	Unique IX, before	Unique IX, after
KWEX-DT D24 DT CP	929.2 349,703		917.1 341,362
KNIC-CD D24 DC BL	5.0 6,491	5.0 6,491	0.0 0
KPXL-TV D26 DT LIC	8.1 1,850	8.1 1,850	1.0 0

Interference to proposal scenario 1
 21.30% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	

Undesireds:	KNVA	D23	DT	CP	AUSTIN, TX	BLANK0000034842	125.1 km
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	124.8
	KVEO-TV	D24	DT	LIC	BROWNSVILLE, TX	BLCDT20050630AGL	355.3
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	388.1
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	268.7
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5
	K27LF-D	D25	DC	CP	SAN ANTONIO, TX	BLANK0000030577	0.0

Service area	Terrain-limited	IX-free	Percent IX
30372.3 2,377,178	29888.9 2,370,316	26456.4 1,865,367	11.48 21.30

Undesired	Total IX	Unique IX	Prcnt Unique IX
KNVA D23 DT CP	460.6 37,793	7.0 220	0.02 0.01
KXLK-CD D24 DC BL	1859.7 106,018	1229.4 66,086	4.11 2.79
KVEO-TV D24 DT LIC	12.9 23	1.0 16	0.00 0.00
KXAS-TV D24 DT LIC	18.0 369	0.0 0	0.00 0.00
KETH-TV D24 DT LIC	239.6 5,577	30.3 14	0.10 0.00
KNIC-CD D24 DC BL	1803.4 405,683	1445.6 398,264	4.84 16.80

Interference to proposal scenario 2
 21.30% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000029934	

Undesireds:	KNVA	D23	DT	BL	AUSTIN, TX	DTVBL144	125.1 km
	KXLK-CD	D24	DC	BL	AUSTIN, TX	DTVBL48836	124.8
	KVEO-TV	D24	DT	LIC	BROWNSVILLE, TX	BLCDT20050630AGL	355.3
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	388.1
	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	268.7
	KNIC-CD	D24	DC	BL	SAN ANTONIO, TX	DTVBL48837	27.9
	KHPZ-CD	D25	DC	CP	ROUND ROCK, TX	BLANK0000027658	158.5

K27LF-D	D25	DC	CP	SAN ANTONIO, TX		BLANK0000030577		0.0
Service area		Terrain-limited		IX-free		Percent IX		
30372.3	2,377,178	29888.9	2,370,316	26458.4	1,865,506	11.48	21.30	
Undesired		Total IX		Unique IX		Prcnt Unique IX		
KNVA D23 DT BL	393.4	25,164	5.0	81	0.02	0.00		
KXLK-CD D24 DC BL	1859.7	106,018	1282.6	77,643	4.29	3.28		
KVEO-TV D24 DT LIC	12.9	23	1.0	16	0.00	0.00		
KXAS-TV D24 DT LIC	18.0	369	0.0	0	0.00	0.00		
KETH-TV D24 DT LIC	239.6	5,577	30.3	14	0.10	0.00		
KNIC-CD D24 DC BL	1803.4	405,683	1445.6	398,264	4.84	16.80		