Kessler and Gehman Associates
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tvstudy v2.2.4 (Z2Qqz3)
Database: localhost, Study: KSAT LIC Ant 74 kW ERP FINAL, Model: Longley-Rice
Start: 2017.11.28 09:52:43

Study created: 2017.11.28 09:52:42

Study build station data: LMS TV 2017-11-28 (71)

    Proposal: KSAT-TV D12 DT BL SAN ANTONIO, TX
 File number: DTVBL53118
 Facility ID: 53118
Station data: User record
   Record ID: 1648
     Country: U.S.
        Zone: III

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KVCT	D11	DT	APP	VICTORIA, TX	BPCDT20120105ABP	119.8 km
Yes	KVCT	D11	DT	LIC	VICTORIA, TX	BLCDT20120104AAJ	119.8
No	KBMT	D12	DT	APP	BEAUMONT, TX	BLANK0000035665	434.3
No	KBMT	D12	DT	LIC	BEAUMONT, TX	BLCDT20090610ACH	434.3
Yes	KAMU-TV	D12	DT	LIC	COLLEGE STATION, TX	BLEDT20030319AFB	238.5
No	KRIS-TV	D13	DT	LIC	CORPUS CHRISTI, TX	BLCDT20060628ABC	181.6
Yes	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLCDT20120625ABA	163.9
No	LICITACION	D11	DT	LIC	NUEVO LAREDO, TA	BLANKBPFSXXXX0017XXX	232.9
No	XHMTA	D12	DT	LIC	MATAMOROS, TA	BLANKBPFS20160318AAI	385.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D12
   Latitude: 29 16 11.86 N (NAD83)

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  Longitude:  98 15 32.04 W
Height AMSL: 607.0 m
       HAAT: 448.0 m
   Peak ERP: 74.0 kW
    Antenna: DIE-THV-12A12/VP-R C150 (ID 104158) 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.00

36.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   41.1 kW   433.9 m  114.9 km
 45.0       15.4      431.0    105.6
 90.0       14.3      431.1    104.9
135.0       37.0      457.2    115.9
180.0       67.3      469.4    122.7
225.0       73.7      463.8    123.3
270.0       73.9      451.2    122.4
315.0       68.8      446.3    121.2

ERP exceeds maximum
ERP: 74.0 kW   ERP maximum: 68.1 kW

Distance to Canadian border: 1955.1 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 217.2 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 169.7 degrees   Distance: 206.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 334.1 degrees   Distance: 1362.4 km


Study cell size: 2.00 km
Profile point spacing: 1.00 km

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

Interference to BPCDT20120105ABP APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVCT	D11	DT	APP	VICTORIA, TX	BPCDT20120105ABP	
Undesireds:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	119.8 km
	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	119.8
	KZTV	D10	DT	LIC	CORPUS CHRISTI, TX	BLCDT20100111ADU	135.8
	KHOU	D11	DT	LIC	HOUSTON, TX	BLCDT20120620ACK	176.6
	LICITACION	D11	DT	LIC	NUEVO LAREDO, TA	BLANKBPFSXXXX0017XXX	278.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29188.6	304,040	28747.1	301,999	23673.7	259,127	23649.7	259,127	0.10	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KSAT-TV D12 DT BL	829.9	4,935		492.9	2,609		
KSAT-TV D12 DT BL	857.9	4,989				516.9	2,609
KZTV D10 DT LIC	36.4	358		12.1	286	12.1	286
KHOU D11 DT LIC	4560.3	39,977		4142.6	37,442	4138.6	37,388
LICITACION D11 DT LIC	140.8	386		8.1	0	8.1	0

Interference to BLCDT20120104AAJ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVCT	D11	DT	LIC	VICTORIA, TX	BLCDT20120104AAJ	
Undesireds:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	119.8 km
	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	119.8
	KZTV	D10	DT	LIC	CORPUS CHRISTI, TX	BLCDT20100111ADU	135.8
	KHOU	D11	DT	LIC	HOUSTON, TX	BLCDT20120620ACK	176.6
	LICITACION	D11	DT	LIC	NUEVO LAREDO, TA	BLANKBPFSXXXX0017XXX	278.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27100.2	288,221	26755.4	287,446	22154.0	252,041	22117.9	252,019	0.16	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
KSAT-TV D12 DT BL	713.5	3,638		428.8	1,579		
KSAT-TV D12 DT BL	757.6	3,660				464.8	1,601
KZTV D10 DT LIC	20.2	4		0.0	0	0.0	0
KHOU D11 DT LIC	4164.6	33,826		3835.5	31,717	3831.4	31,717
LICITACION D11 DT LIC	68.4	207		8.1	0	8.1	0

Interference to BLEDT20030319AFB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAMU-TV	D12	DT	LIC	COLLEGE STATION, TX	BLEDT20030319AFB	
Undesireds:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	238.5 km
	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	238.5
	KHOU	D11	DT	LIC	HOUSTON, TX	BLCDT20120620ACK	143.7
	KBMT	D12	DT	APP	BEAUMONT, TX	BLANK0000035665	240.6
	KTRK-TV	D13	DT	LIC	HOUSTON, TX	BLCDT20090612AAS	142.9
	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLCDT20120625ABA	157.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
14230.2	346,892	13614.4	342,455	12621.5	321,497	12585.5	320,639	0.29	0.27

Undesired		Total IX		Unique IX, before		Unique IX, after	
KSAT-TV D12 DT BL	348.3	8,739		148.2	2,773		
KSAT-TV D12 DT BL	416.4	12,486				184.2	3,631
KHOU D11 DT LIC	40.2	1,399		0.0	0	0.0	0
KBMT D12 DT APP	772.6	13,586		516.2	8,196	496.2	5,644
KTRK-TV D13 DT LIC	116.5	3,956		24.1	551	24.1	551
KAKW-DT D13 DT LIC	48.0	4,048		32.0	544	24.0	400

Interference to BLEDT20030319AFB LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAMU-TV	D12	DT	LIC	COLLEGE STATION, TX	BLEDT20030319AFB	
Undesireds:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	238.5 km
	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	238.5
	KHOU	D11	DT	LIC	HOUSTON, TX	BLCDT20120620ACK	143.7

	KBMT	D12	DT	LIC	BEAUMONT, TX	BLCDT20090610ACH	240.6
	KTRK-TV	D13	DT	LIC	HOUSTON, TX	BLCDT20090612AAS	142.9
	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLCDT20120625ABA	157.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
14230.2	346,892	13614.4	342,455	12805.6	323,434	12757.6	322,502	0.38	0.29

Undesired	Total IX		Unique IX, before		Unique IX, after	
KSAT-TV D12 DT BL	348.3	8,739	188.2	2,843		
KSAT-TV D12 DT BL	416.4	12,486			236.2	3,775
KHOU D11 DT LIC	40.2	1,399	0.0	0	0.0	0
KBMT D12 DT LIC	540.5	11,378	332.1	6,259	324.1	3,781
KTRK-TV D13 DT LIC	116.5	3,956	28.1	551	28.1	551
KAKW-DT D13 DT LIC	48.0	4,048	32.0	544	24.0	400

Interference to BLCDT20120625ABA LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLCDT20120625ABA	
Undesireds:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	163.9 km
	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	163.9
	KRIS-TV	D13	DT	LIC	CORPUS CHRISTI, TX	BLCDT20060628ABC	333.9
	KTRK-TV	D13	DT	LIC	HOUSTON, TX	BLCDT20090612AAS	271.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
46784.0	2,615,956	44659.5	2,531,813	42901.3	2,454,723	42897.3	2,454,612	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KSAT-TV D12 DT BL	231.7	37,017	96.1	13,326		
KSAT-TV D12 DT BL	235.7	37,128			100.1	13,437
KRIS-TV D13 DT LIC	372.1	30,131	92.4	3,552	92.4	3,552
KTRK-TV D13 DT LIC	1533.7	57,210	1289.9	33,633	1289.9	33,633

Interference to proposal scenario 1
**MX: 2.05% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	
Undesireds:	KVCT	D11	DT	APP	VICTORIA, TX	BPCDT20120105ABP	119.8 km
	KAMU-TV	D12	DT	LIC	COLLEGE STATION, TX	BLEDT20030319AFB	238.5
	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLCDT20120625ABA	163.9
	XHMTA	D12	DT	LIC	MATAMOROS, TA	BLANKBPFS20160318AAI	385.0

Service area		Terrain-limited		IX-free		Percent IX	
42733.1	2,563,309	40818.4	2,525,019	39661.6	2,473,184	2.83	2.05

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KVCT D11 DT APP	823.2	5,418	819.2	5,388	2.01	0.21
KAMU-TV D12 DT LIC	88.4	4,972	52.3	1,250	0.13	0.05
KAKW-DT D13 DT LIC	261.2	44,939	229.0	41,247	0.56	1.63
XHMTA D12 DT LIC	20.2	228	20.2	228	0.05	0.01

Interference to proposal scenario 2
2.00% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSAT-TV	D12	DT	BL	SAN ANTONIO, TX	DTVBL53118	
Undesireds:	KVCT	D11	DT	LIC	VICTORIA, TX	BLCDT20120104AAJ	119.8 km
	KAMU-TV	D12	DT	LIC	COLLEGE STATION, TX	BLEDT20030319AFB	238.5
	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLCDT20120625ABA	163.9
	XHMTA	D12	DT	LIC	MATAMOROS, TA	BLANKBPFS20160318AAI	385.0

Service area		Terrain-limited		IX-free		Percent IX	
42733.1	2,563,309	40818.4	2,525,019	39782.0	2,474,483	2.54	2.00

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KVCT D11 DT LIC	702.8	4,119	698.8	4,089	1.71	0.16
KAMU-TV D12 DT LIC	88.4	4,972	52.3	1,250	0.13	0.05
KAKW-DT D13 DT LIC	261.2	44,939	229.0	41,247	0.56	1.63
XHMTA D12 DT LIC	20.2	228	20.2	228	0.05	0.01