

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: McAllen34dMex, Model: Longley-Rice
Start: 2018.05.23 13:03:58

Study created: 2018.05.23 13:03:58

Study build station data: LMS TV 2018-05-23

Proposal: KSOY-LD D34 LD APP MCALLEN, TX
Facility ID: 16230
Station data: User record
Record ID: 784
Country: U.S.

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

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KEYE-TV	D34	DT	CP	AUSTIN, TX	BLANK0000034391	469.2 km
No	KYDF-LP	D34+	LD	APP	CORPUS CHRISTI, TX	BLANK0000053806	194.0
No	KYDF-LP	N34+	TX	LIC	CORPUS CHRISTI, TX	BLTTTL20071003AAH	194.0
Yes	KLUJ-TV	D34	DT	LIC	HARLINGEN, TX	BLEDT20070402KPK	14.2
No	KIAH	D34	DT	CP	HOUSTON, TX	BLANK0000034047	448.8
No	KIAH	D34	DT	APP	HOUSTON, TX	BLANK0000035711	448.8
No	KNIC-CD	D34	DC	LIC	SAN ANTONIO, TX	BLANK0000001656	375.4
No	KAZH-LP	D35	LD	APP	MCALLEN, TX	BLANK0000053848	42.8
No	XHOR	D33	DT	LIC	MATAMOROS, TA	BLANKBPFS20050721AGA	41.8
No	XHLAT	D33	DT	LIC	NUEVO LAREDO, TA	BLANKBPFS20160318AAY	223.1
No	XHAMC	D34	DT	LIC	CIUDAD ACUNA, CI	BLANKBPFS20160304AAX	465.6
No	LICITACIOND34		DT	LIC	MONCLOVA, CI	BLANKBPFSXXXX0013XXX	369.0
No	XHSBC	D34	DT	LIC	SABINAS-NUEVO ROSITA, CI	BLANKBPFS20160226ABT	379.1
Yes	XHCNL	D34	DT	LIC	MONTERREY, NL	BLANKBPFS20160309ABE	245.2
No	LICITACIOND34		DT	LIC	NUEVO LAREDO, TA	BLANKBPFS20090331AHG	223.1

No	CADENATRES	D34	DT	LIC	SOTO LA MARINA, TA	BLANKBPFS162526XXX	262.2
No	CADENATRES	D35	DT	LIC	AGUALEGUAS, NL	BLANKBPFS20160525ABV	171.0
No	XHMNU	D35	DT	LIC	MONTERREY, NL	BLANKBPFS20151202BPS	250.5
No	XHCTNL	D35	DT	LIC	NUEVO LAREDO, TA	BLANKBPFS20090331AHO	225.7
No	CADENATRES	D35	DT	LIC	SAN FERNANDO, TA	BLANKBPFS20160525ACJ	141.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34
Mask: Full Service
Latitude: 26 6 2.30 N (NAD83)
Longitude: 97 50 21.50 W
Height AMSL: 436.1 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: ERI-ALP16L2-HSER (ID 113335) 10.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	419.4 m	61.8 km
45.0	15.0	421.4	61.9
90.0	9.96	420.6	59.5
135.0	1.95	417.9	49.8
180.0	0.277	415.8	37.9
225.0	0.170	413.0	34.9
270.0	5.84	416.2	56.1
315.0	14.0	417.4	61.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 418 m

Distance to Canadian border: 2211.8 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 4.0 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 358.3 degrees Distance: 149.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 338.1 degrees Distance: 1701.4 km

Study cell size: 1.00 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 BLEDT20070402KPK LIC scenario 1
**IX: 89.15% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLUJ-TV	D34	DT	LIC	HARLINGEN, TX	BLEDT20070402KPK	
Undesireds:	KSOY-LD	D34	LD	APP	MCALLEN, TX		14.2 km
	XHCNL	D34	DT	LIC	MONTERREY, NL	BLANKBPFS20160309ABE	253.8

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	8296.1	1,195,751	8296.1	1,195,751	8219.3	1,184,479	613.4	128,575	92.54 89.15
	5169.5	1,263,046	5169.5	1,263,046	5110.3	1,262,192	1055.9	26,456	79.34 97.90

(in Mexico)

Undesired		Total IX	Unique IX, before	Unique IX, after	
KSOY-LD D34 LD APP	7681.8	1,067,176		7606.0	1,055,904
KSOY-LD D34 LD APP	4110.6	1,236,588		4054.4	1,235,736 (in Mexico)

XHCNL D34 DT LIC	76.8	11,272	76.8	11,272	1.0	0	
XHCNL D34 DT LIC	59.2	854	59.2	854	3.0	2	(in Mexico)

Interference to BLANKBPFS20160309ABE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	XHCNL	D34	DT	LIC	MONTERREY, NL	BLANKBPFS20160309ABE	
Undesireds:	KSOY-LD	D34	LD	APP	MCALLEN, TX		245.2 km
	XHLLO	D33	DT	LIC	SALTILLO, CI	BLANKBPFS20120110ADF	81.0
	LICITACIOND34	DT	LIC		MONCLOVA, CI	BLANKBPFSXXXX0013XXX	185.9
	LICITACIOND34	DT	LIC		NUEVO LAREDO, TA	BLANKBPFS20090331AHG	214.0
	CADENATRES D34	DT	LIC		SOTO LA MARINA, TA	BLANKBPFS162526XXX	291.4
	CADENATRES D35	DT	LIC		AGUALEGUAS, NL	BLANKBPFS20160525ABV	102.6
	XHMNU	D35	DT	LIC	MONTERREY, NL	BLANKBPFS20151202BPS	12.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
41870.2	5,362,671	28803.0	4,439,468	27705.7
		4,360,928	27679.9	4,360,928
				0.09
				0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KSOY-LD D34 LD APP	129.3	25	25.8
XHLLO D33 DT LIC	4.9	0	4.0
LICITACION D34 DT LIC	24.7	5	19.8
LICITACION D34 DT LIC	785.3	3,266	329.3
CADENATRES D34 DT LIC	82.6	885	60.8
CADENATRES D35 DT LIC	635.0	1,473	199.9
XHMNU D35 DT LIC	27.7	73,605	24.7

Interference to proposal scenario 1

**MX: 2.94% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSOY-LD	D34	LD	APP	MCALLEN, TX		
Undesireds:	KYDF-LP	D34+	LD	APP	CORPUS CHRISTI, TX	BLANK0000053806	194.0 km
	KAZH-LP	D35	LD	APP	MCALLEN, TX	BLANK0000053848	42.8

XHOR	D33	DT	LIC	MATAMOROS, TA	BLANKBPFS20050721AGA	41.8
Service area			Terrain-limited		IX-free	Percent IX
6895.2	1,164,503	6895.2	1,164,503	6836.1	1,130,278	0.86 2.94
2182.9	1,141,337	2182.9	1,141,337	2131.5	953,649	2.35 16.44 (in Mexico)
Undesired			Total IX		Unique IX	Prcnt Unique IX
KAZH-LP D35 LD APP	56.1		34,134	56.1	34,134	0.81 2.93
XHOR D33 DT LIC	3.0		91	3.0	91	0.04 0.01
XHOR D33 DT LIC	51.4		187,688	51.4	187,688	2.35 16.44 (in Mexico)