

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

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KEOO\_Ch24\_4X3\_210deg\_Pre, Model: Longley-Rice  
Start: 2019.05.31 13:52:44

Study created: 2019.05.31 13:39:07

Study build station data: LMS TV 2019-05-31

Proposal: KEOO-LD D24 LD APP MIDLAND, TX  
File number: KEOO\_Ch24\_4X3\_210deg  
Facility ID: 125684  
Station data: User record  
Record ID: 958  
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  
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KTLE-LD	N20z	TX	LIC	ODESSA, TX	BLTTL20121010AAB	39.5 km
No	K21GU	N21z	TX	LIC	MIDLAND, TX	BLTTL20061107AEL	14.5
No	KMDF-LD	N22z	TX	LIC	MIDLAND, TX	BLTTL20081229AAD	31.9
No	KPEJ-TV	D23	DT	LIC	ODESSA, TX	BLCDT20060629AGO	33.4
No	KIDT-LD	D23	LD	CP	STAMFORD, TX	BLANK0000054530	187.9
No	K23LG-D	D23	LD	CP	TAHOKA, TX	BNPDTL20100323AIS	123.0
No	KLCW-TV	D23	DT	CP	WOLFFORTH, TX	BLANK0000034587	171.6
No	K24CT	D24	LD	CP	ALAMOGORDO, NM	BLANK0000054866	379.8
No	K24CT	N24	TX	LIC	ALAMOGORDO, NM	BLTTL19980804JD	378.3
No	K24MW-D	D24	LD	LIC	CLOVIS, NM	BLANK0000063651	298.7
No	K24MB-D	D24	LD	LIC	HOBBS, NM	BLANK0000063254	144.9
Yes	KTAB-TV	D24	DT	LIC	ABILENE, TX	BLCDT20070831AAJ	226.4
No	K24JX-D	D24	LD	CP	ACKERLY, TX	BNPDTL20100323AIK	71.4
No	K45IQ	D24+	LD	CP	AMARILLO, TX	BLANK0000054570	370.1
No	KVAW	D24	DT	CP	EAGLE PASS, TX	BPCDT20080402AAG	387.2
No	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	475.4
No	K24GP	N24+	TX	LIC	LUBBOCK, TX	BLTTL20050926ADH	173.3
No	KXTQ-CD	D24	DC	LIC	LUBBOCK, TX	BLANK0000063861	171.6
No	K38AP-D	D24	LD	CP	MEMPHIS, TX	BLANK0000053994	340.7
No	K41HQ-D	D24	LD	CP	QUANAH, TX	BLANK0000053929	325.6
No	KZSA-LP	D24+	LD	CP	SAN ANGELO, TX	BLANK0000054612	182.8
No	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000063134	463.6
No	K24IX-D	D24	LD	LIC	TURKEY, TX	BLDTT20101115FOC	282.5
No	KTEL-TV	D25	DT	LIC	CARLSBAD, NM	BLCDT20081125ADK	214.8
No	K25MT-D	D25	LD	CP	BIG SPRING, TX	BNPDTL20100312ACX	46.6
No	KTTZ-TV	D25	DT	LIC	LUBBOCK, TX	BLANK0000063358	180.4
No	KRDJ-LD	D25	LD	CP	LUBBOCK, TX	BMPDTL20140805ADN	173.3
Yes	K46HN	D25+	LD	CP	ODESSA, TX	BLANK0000054886	27.9
No	K25LZ-D	D25	LD	CP	ROSCOE, TX	BNPDTL20100310ACD	135.5
No	KANG-LP	N31-	TX	APP	SAN ANGELO, TX	BLANK0000059413	150.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24  
Mask: Full Service  
Latitude: 31 57 39.00 N (NAD83)  
Longitude: 101 58 25.00 W  
Height AMSL: 973.0 m  
HAAT: 0.0 m

Peak ERP: 15.0 kW  
Antenna: SIRA 4x3 210.0 deg  
Elev Pattn: Generic

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.24 kW	131.4 m	34.2 km
45.0	0.233	148.8	26.8
90.0	7.46	159.8	45.3
135.0	10.1	166.4	47.3
180.0	10.5	149.9	46.4
225.0	10.7	134.7	45.4
270.0	9.87	124.4	44.3
315.0	13.8	130.4	46.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 143 m

Distance to Canadian border: 1893.8 km

\*\*Proposal is within coordination distance of Mexican border  
Distance to Mexican border: 233.6 km

Conditions at FCC monitoring station: Kingsville TX  
Bearing: 140.8 degrees    Distance: 638.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 343.1 degrees    Distance: 952.4 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%

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Interference to BLCDT20070831AAJ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTAB-TV	D24	DT	LIC	ABILENE, TX	BLCDT20070831AAJ	
Undesireds:	KEOO-LD	D24	LD	APP	MIDLAND, TX	KEOO_Ch24_4X3_210deg	226.4 km
	KXAS-TV	D24	DT	LIC	FORT WORTH, TX	BLANK0000054717	249.0
	KXTQ-CD	D24	DC	LIC	LUBBOCK, TX	BLANK0000063861	252.2
	KWEX-DT	D24	DT	CP	SAN ANTONIO, TX	BLANK0000063134	357.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	27495.0	272,065	27242.5	269,773	26539.1	265,513	26536.0	265,513	0.01    0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KEOO-LD D24 LD APP	3.0	0		3.0    0
KXAS-TV D24 DT LIC	693.3	4,255	687.2    4,255	687.2    4,255
KXTQ-CD D24 DC LIC	3.0	0	3.0    0	3.0    0
KWEX-DT D24 DT CP	13.2	5	7.1    5	7.1    5

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Interference to BLANK0000054886 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K46HN	D25+	LD	CP	ODESSA, TX	BLANK0000054886	
Undesireds:	KEOO-LD	D24	LD	APP	MIDLAND, TX	KEOO_Ch24_4X3_210deg	27.9 km
	KMID	D26	DT	LIC	MIDLAND, TX	BLCDT20110218AAS	21.7

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	2777.1	267,883	2776.1	267,875	1972.4	259,192	1972.4	259,192	0.00    0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KEOO-LD D24 LD APP	22.2	0		0.0    0
KMID D26 DT LIC	803.7	8,683	803.7    8,683	781.5    8,683

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEOO-LD	D24	LD	APP	MIDLAND, TX	KEOO_Ch24_4X3_210deg	
Undesireds:	KPEJ-TV	D23	DT	LIC	ODESSA, TX	BLCDT20060629AGO	33.4 km
	K24JX-D	D24	LD	CP	ACKERLY, TX	BNPDTL20100323AIK	71.4
	K25MT-D	D25	LD	CP	BIG SPRING, TX	BNPDTL20100312ACX	46.6
	K46HN	D25+	LD	CP	ODESSA, TX	BLANK0000054886	27.9

Service area	Terrain-limited	IX-free	Percent IX
5736.3 255,560	5736.3 255,560	5501.5 251,678	4.09 1.52

Undesired	Total IX	Unique IX	Prcnt Unique IX
KPEJ-TV D23 DT LIC	225.7 3,147	224.7 3,147	3.92 1.23
K24JX-D D24 LD CP	8.1 0	6.0 0	0.11 0.00
K25MT-D D25 LD CP	1.0 0	0.0 0	0.00 0.00
K46HN D25+ LD CP	2.0 735	2.0 735	0.04 0.29