

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Salix27d3kwELTI0T, Model: Longley-Rice

Start: 2021.08.14 09:56:02

Study created: 2021.08.14 09:56:02

Study build station data: LMS TV 2021-08-13

Proposal: K27LD-D D27 LD APP SALIX, IA

Facility ID: 185947

Station data: User record

Record ID: 383

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K26JI-D	D26	LD	LIC	SIBLEY, IA	BLDTT20101213AAZ	131.1 km
No	KPTM	D26	DT	LIC	OMAHA, NE	BLANK0000079038	140.3
No	KSXC-LD	D26z	LD	LIC	SOUTH SIOUX CITY, NE	BLANK0000058765	17.3
No	KDLV-TV	D26	DT	LIC	MITCHELL, SD	BLCDDT20081016ADD	231.6
No	KCPO-LP	D26+	LD	CP	SIOUX FALLS, SD	BLANK0000110806	137.5
No	KCPO-LP	N26+	TX	LIC	SIOUX FALLS, SD	BLTTTL20011029AAL	136.9
No	KFXA	D27	DT	LIC	CEDAR RAPIDS, IA	BLCDDT20050713ABD	350.8
No	K27MI-D	D27	LD	CP	MASON CITY, IA	BNPDTL20100723AQS	256.1
No	KSNT	D27	DT	LIC	TOPEKA, KS	BLCDDT20090910ABY	362.9
No	K27FI-D	D27	LD	LIC	FROST, MN	BLDTT20090730ACP	240.4
No	K27NF-D	D27	LD	LIC	JACKSON, MN	BLANK0000064446	178.8
No	KRWF	D27	DT	LIC	REDWOOD FALLS, MN	BLCDDT20080502ABG	248.9
No	K27OW-D	D27+	LD	LIC	Rochester, MN	BLANK0000121243	321.7
No	K27ML-D	D27	LD	CP	RUSHMORE, MN	BNPDTL20100510AHZ	152.0
No	KFDY-LD	D27	LD	LIC	LINCOLN, NE	BLANK0000113709	179.7
No	K27NI-D	D27	LD	LIC	NELIGH, NE	BLANK0000120031	143.3
No	KHGI-CD	D27	DC	LIC	NORTH PLATTE, NE	BLANK0000114628	381.1
No	KOHA-LD	D27	LD	CP	OMAHA, NE	BLANK0000156031	127.0

No	KCWS-LP	N27	TX	LIC	SIOUX FALLS, SD	BLANK0000116223	137.9
No	KCWS-LP	D27	LD	CP	SIOUX FALLS, SD	BLANK0000138268	137.9
No	WHWC-TV	D27	DT	CP	MENOMONIE, WI	BLANK0000035676	469.4
No	WHWC-TV	D27	DT	LIC	MENOMONIE, WI	BLEDT20040824AAF	469.4
No	K28NF-D	D28	LD	APP	FORT DODGE, IA	BLANK0000010852	164.5
No	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	20.6
No	K28OI-D	D28	LD	LIC	Jackson, MN	BLANK0000064442	178.8
No	KHNE-TV	D28	DT	LIC	HASTINGS, NE	BLANK0000074810	226.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27
Mask: Stringent
Latitude: 42 19 50.70 N (NAD83)
Longitude: 96 20 13.00 W
Height AMSL: 343.0 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 0.0 deg
Elev Pattn: Generic

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	-11.6 m	22.9 km
45.0	0.605	0.8	15.4
90.0	0.002	11.1	4.0
135.0	0.023	15.3	7.0
180.0	0.008	18.6	5.3
225.0	0.016	-35.2	6.4
270.0	0.003	-2.0	4.0
315.0	0.643	10.6	15.7

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 1 m

Distance to Canadian border: 715.5 km

Distance to Mexican border: 1467.2 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 228.7 degrees Distance: 233.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 254.9 degrees Distance: 780.9 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 proposal scenario 1

28.55% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K27LD-D	D27	LD	APP	SALIX, IA		
Undesireds:	KSXC-LD	D26z	LD	LIC	SOUTH SIOUX CITY, NE	BLANK0000058765	17.3 km
	KOHA-LD	D27	LD	CP	OMAHA, NE	BLANK0000156031	127.0
	KCWS-LP	N27	TX	LIC	SIOUX FALLS, SD	BLANK0000116223	137.9
	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	20.6

	Service area		Terrain-limited		IX-free		Percent IX
	460.5	82,778	453.4	81,992	338.4	58,583	25.37 28.55
Undesired				Total IX		Unique IX	Prcnt Unique IX
KSXC-LD D26z LD LIC		46.5		6,075	10.1	810	2.23 0.99

KOHA-LD D27 LD CP	1.0	25	0.0	0	0.00	0.00
KSIN-TV D28 DT LIC	104.9	22,599	68.5	17,334	15.11	21.14