tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Salix27d1kwincEltiat230fA1, Model: Longley-Rice
Start: 2022.05.13 05:53:09

Study created: 2022.05.13 05:53:09

Study build station data: LMS TV 2022-05-11

    Proposal: K27LD-D D27 LD LIC SALIX, IA
 Facility ID: 185947
Station data: User record
   Record ID: 2078
     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	KAUN-LD	N25	TX	LIC	SIOUX FALLS, SD	BLANK0000116224	113.4 km
No	K26JI-D	D26	LD	LIC	SIBLEY, IA	BLDTT20101213AAZ	101.7
No	KPTM	D26	DT	LIC	OMAHA, NE	BLANK0000189612	168.4
No	KPTM	D26	DT	LIC	OMAHA, NE	BLANK0000190275	168.4
No	KSXC-LD	D26z	LD	LIC	SOUTH SIOUX CITY, NE	BLANK0000058765	12.8
No	KDLV-TV	D26	DT	LIC	MITCHELL, SD	BLCDT20081016ADD	219.6
No	KCPO-LP	D26+	LD	CP	SIOUX FALLS, SD	BLANK0000110806	112.9
No	KCPO-LP	N26+	TX	LIC	SIOUX FALLS, SD	BLTTL20011029AAL	112.3
No	KFXA	D27	DT	LIC	CEDAR RAPIDS, IA	BLCDT20050713ABD	345.0
No	KSNT	D27	DT	LIC	TOPEKA, KS	BLCDT20090910ABY	390.1
No	K27KN-D	D27	LD	LIC	ALEXANDRIA, MN	BLDTT20111123OCO	377.2
No	K27FI-D	D27	LD	LIC	FROST, MN	BLDTT20090730ACP	217.4
No	K27NF-D	D27	LD	LIC	JACKSON, MN	BLANK0000064446	151.3
No	KRWF	D27	DT	LIC	REDWOOD FALLS, MN	BLCDT20080502ABG	219.2
No	K27OW-D	D27+	LD	LIC	Rochester, MN	BLANK0000121243	301.2
No	K27KL-D	D27	LD	CP	ST CHARLES, MN	BNPDTL20090825BXS	376.6
No	KFDY-LD	D27	LD	LIC	LINCOLN, NE	BLANK0000113709	209.0
No	K27NI-D	D27	LD	LIC	NELIGH, NE	BLANK0000120031	159.8
No	KHGI-CD	D27	DC	LIC	NORTH PLATTE, NE	BLANK0000114628	398.5
No	KOHA-LD	D27	LD	LIC	OMAHA, NE	BLANK0000181422	153.1
No	KCWS-LD	N27	TX	LIC	SIOUX FALLS, SD	BLANK0000116223	113.4

No	KCWS-LD	D27	LD	LIC	SIOUX FALLS, SD	BLANK0000178498	113.4
No	WHWC-TV	D27	DT	LIC	MENOMONIE, WI	BLANK0000157562	444.4
No	K28NF-D	D28	LD	APP	FORT DODGE, IA	BLANK0000010852	171.7
No	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	9.9
No	K28OI-D	D28	LD	LIC	Jackson, MN	BLANK0000064442	151.3
No	KHNE-TV	D28	DT	LIC	HASTINGS, NE	BLANK0000074810	253.8

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: Full Service
   Latitude:  42 35 11.00 N (NAD83)
  Longitude:  96 13 57.00 W
Height AMSL: 426.1 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 1.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 230.0 deg
Elev Pattrn: Generic
```

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.008 kW	50.3 m	6.9 km
45.0	0.002	15.9	3.9
90.0	0.005	21.3	4.9
135.0	0.000	39.7	3.6
180.0	0.151	52.4	14.5
225.0	0.956	33.4	18.4
270.0	0.282	48.1	16.2
315.0	0.002	31.2	3.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 37 m

Distance to Canadian border: 685.8 km

Distance to Mexican border: 1496.8 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 225.3 degrees Distance: 259.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 253.2 degrees Distance: 796.9 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%

Interference to proposal scenario 1
37.37% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K27LD-D	D27	LD	LIC	SALIX, IA		
Undesireds:	KSXC-LD	D26z	LD	LIC	SOUTH SIOUX CITY, NE	BLANK0000058765	12.8 km
	KCWS-LD	N27	TX	LIC	SIOUX FALLS, SD	BLANK0000116223	113.4
	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	9.9

Service area		Terrain-limited		IX-free		Percent IX	
399.6	90,531	385.4	89,175	278.2	55,854	27.83	37.37

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KSXC-LD D26z LD LIC	53.7	24,871	0.0	0	0.00	0.00
KSIN-TV D28 DT LIC	107.2	33,321	53.6	8,450	13.90	9.48