

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: Salix27d0.2kwincSam460at180fA1, Model: Longley-Rice  
Start: 2022.07.27 05:39:13

Study created: 2022.07.27 05:39:13

Study build station data: LMS TV 2022-07-26

Proposal: K27LD-D D27 LD LIC SALIX, IA  
Facility ID: 185947  
Station data: User record  
Record ID: 2264  
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	112.3 km
No	KPTM	D26	DT	LIC	OMAHA, NE	BLANK00000190275	163.1
No	KSXC-LD	D26z	LD	LIC	SOUTH SIOUX CITY, NE	BLANK00000058765	7.8
No	KDLV-TV	D26	DT	LIC	MITCHELL, SD	BLCDT20081016ADD	214.2
No	KCPO-LP	D26+	LD	CP	SIOUX FALLS, SD	BLANK00000110806	114.8
No	KCPO-LP	D26+	LD	LIC	SIOUX FALLS, SD	BLANK00000194735	114.8
No	KCPO-LP	N26+	TX	LIC	SIOUX FALLS, SD	BLTTL20011029AAL	114.2
No	KFXA	D27	DT	LIC	CEDAR RAPIDS, IA	BLCDT20050713ABD	355.7
No	KSNT	D27	DT	LIC	TOPEKA, KS	BLCDT20090910ABY	385.7
No	K27FI-D	D27	LD	LIC	FROST, MN	BLDTT20090730ACP	230.3
No	K27NF-D	D27	LD	LIC	JACKSON, MN	BLANK00000064446	163.3
No	KRWF	D27	DT	LIC	REDWOOD FALLS, MN	BLCDT20080502ABG	228.1
No	K27OW-D	D27+	LD	LIC	Rochester, MN	BLANK00000121243	314.1
No	KFDY-LD	D27	LD	LIC	LINCOLN, NE	BLANK00000113709	201.8
No	K27NI-D	D27	LD	LIC	NELIGH, NE	BLANK00000120031	147.0
No	KHGI-CD	D27	DC	LIC	NORTH PLATTE, NE	BLANK00000114628	385.7
No	KOHA-LD	D27	LD	LIC	OMAHA, NE	BLANK00000181422	149.7
No	K27HJ-D	D27-	LD	LIC	PIERRE, SD	BLANK00000021590	377.0
No	K27HJ-D	N27-	TX	LIC	PIERRE, SD	BLTT20031008ACB	377.0
No	KCWS-LD	N27	TX	LIC	SIOUX FALLS, SD	BLANK00000116223	115.2
No	KCWS-LD	D27	LD	LIC	SIOUX FALLS, SD	BLANK00000178498	115.2

No	WHWC-TV	D27	DT	LIC	MENOMONIE, WI	BLANK00000157562	457.0
No	K28NF-D	D28	LD	APP	FORT DODGE, IA	BLANK00000010852	178.0
No	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	6.1
No	K28OI-D	D28	LD	LIC	Jackson, MN	BLANK00000064442	163.3
No	KHNE-TV	D28	DT	LIC	HASTINGS, NE	BLANK00000074810	242.2

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 32 4.40 N (NAD83)  
 Longitude: 96 22 24.30 W  
 Height AMSL: 376.9 m (Adjusted based on actual ground elevation calculation)  
 HAAT: 0.0 m  
 Peak ERP: 0.200 kW  
 Antenna: SAM-SAM-460 (ID 1004146) 180.0 deg  
 Elev Pattn: Generic

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-10.2 m	3.1 km
45.0	0.000	17.2	3.1
90.0	0.000	-9.5	3.1
135.0	0.001	-5.1	3.4
180.0	0.200	31.6	12.0
225.0	0.001	36.5	3.7
270.0	0.000	23.3	3.1
315.0	0.000	-14.1	3.1

Database HAAT does not agree with computed HAAT  
 Database HAAT: 0 m    Computed HAAT: 9 m

Distance to Canadian border: 694.5 km

Distance to Mexican border: 1487.5 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 224.3 degrees    Distance: 247.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 253.2 degrees    Distance: 784.2 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  
19.18% 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	7.8 km
	KCWS-LD	N27	TX	LIC	SIOUX FALLS, SD	BLANK0000116223	115.2
	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	6.1

Service area	Terrain-limited	IX-free	Percent IX
100.2      67,044	99.2      67,044	65.8      54,182	33.68      19.18

Undesired	Total IX	Unique IX	Prcnt Unique IX
KSXC-LD D26z LD LIC      18.2      9,260      0.0      0			0.00      0.00
KSIN-TV D28 DT LIC      33.4      12,862      15.2      3,602			15.31      5.37