

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KSFL-TV Sioux Falls New Ant BT1, Model: Longley-Rice
Start: 2023.11.14 12:06:31

Study created: 2023.11.14 12:06:31

Study build station data: LMS TV 2023-11-14

Proposal: KSFL-TV D36 DT APP SIOUX FALLS, SD
File number: KSFL-TV Sioux Falls New Ant BT1
Facility ID: 29121
Station data: User record
Record ID: 665
Country: U.S.
Zone: II

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

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KHIN	D35	DT	LIC	RED OAK, IA	BLANK0000030114	263.2 km
No	KFPX-TV	D36	DT	LIC	NEWTON, IA	BLANK0000063434	306.0
No	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	326.1
No	KVLY-TV	D36	DT	LIC	FARGO, ND	BLANK0000165339	430.3

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
KSOO 1000 L DA2 D SIOUX FALLS, SD BL20030127AEI
KSOO 1000 L DA2 N SIOUX FALLS, SD BL20030127AEI

Record parameters as studied:

Channel: D36
Latitude: 43 30 14.00 N (NAD83)
Longitude: 96 34 18.80 W
Height AMSL: 658.0 m
HAAT: 232.0 m
Peak ERP: 36.9 kW
Antenna: DIE-TLP 16M 0.0 deg
Elev Pattnr: Generic
Elec Tilt: 1.00

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	29.6 kW	247.2 m	68.0 km
45.0	35.8	230.7	67.8
90.0	22.2	207.9	63.8
135.0	4.17	227.9	56.7
180.0	2.44	243.9	54.9
225.0	4.15	234.5	57.1
270.0	22.3	218.1	64.5
315.0	36.0	227.6	67.6

Database HAAT does not agree with computed HAAT
Database HAAT: 232 m Computed HAAT: 230 m

Distance to Canadian border: 596.9 km

Distance to Mexican border: 1565.1 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 208.7 degrees Distance: 325.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 245.5 degrees Distance: 807.1 km

Study cell size: 2.00 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

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSFL-TV	D36	DT	APP	SIOUX FALLS, SD	KSFl-TV Sioux Falls Ne	
	Service area			Terrain-limited		IX-free	Percent IX
12307.6	279,600	12303.5		279,597	12303.5	279,597	0.00 0.00