

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KMEG 39 STA 320K 907C, Model: Longley-Rice
Start: 2018.08.21 15:11:05

Study created: 2018.08.21 15:11:04

Study build station data: LMS TV 2018-08-20

Proposal: KMEG D39 DT CP SIOUX CITY, IA
File number: KMEG 39 STA 320K 907C
Facility ID: 39665
Station data: User record
Record ID: 776
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
Yes	KXVO	D38	DT	LIC	OMAHA, NE	BLCDT20090604AAK	168.5 km
Yes	KFPX-TV	D39	DT	LIC	NEWTON, IA	BLCDT20090612AHB	262.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D39
Latitude: 42 35 12.00 N (NAD83)
Longitude: 96 13 19.00 W
Height AMSL: 907.0 m
HAAT: 515.0 m
Peak ERP: 320 kW
Antenna: TFU 24WB VP/R C160 176.0 deg
Elev Pattnr: Generic
Elec Tilt: 0.50

41.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	126 kW	521.2 m	96.4 km
45.0	78.7	492.0	90.5
90.0	235	502.0	100.3
135.0	318	524.3	104.9
180.0	303	530.8	104.9
225.0	311	515.0	103.9
270.0	215	529.7	101.8
315.0	62.5	514.3	90.2

Database HAAT does not agree with computed HAAT
Database HAAT: 515 m Computed HAAT: 516 m

Distance to Canadian border: 685.6 km

Distance to Mexican border: 1497.1 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 225.4 degrees Distance: 260.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 253.2 degrees Distance: 797.7 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 BLCDT20090604AAK LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KXVO	D38	DT	LIC	OMAHA, NE	BLCDT20090604AAK	
Undesireds:	KMEG	D39	DT	CP	SIOUX CITY, IA	KMEG 39 STA 320K 907C	168.5 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	32920.4 1,333,338	32719.7		1,331,562	32719.7 1,331,562	32671.6 1,331,492	0.15 0.01
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMEG D39 DT CP		48.1		70		48.1 70	

Interference to BLCDT20090612AHB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFPX-TV	D39	DT	LIC	NEWTON, IA	BLCDT20090612AHB	
Undesireds:	KMEG	D39	DT	CP	SIOUX CITY, IA	KMEG 39 STA 320K 907C	262.3 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	12554.8 754,049	12522.7		753,947	12522.7 753,947	12510.6 753,814	0.10 0.02
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMEG D39 DT CP		12.1		133		12.1 133	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMEG	D39	DT	CP	SIOUX CITY, IA	KMEG 39 STA 320K 907C	
	Service area			Terrain-limited	IX-free	Percent IX	
	31065.8 367,660	30897.4		362,008	30897.4 362,008	0.00 0.00	