

Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K39MA_Ch15_2x2_150deg_Move_Pre, Model: Longley-Rice
Start: 2019.04.19 11:39:58

Study created: 2019.04.19 11:39:58

Study build station data: LMS TV 2019-04-18 #67

Proposal: K39MA-D D15 LD APP FARGO, ND
File number: K39MA_Ch15_2x2_150deg_Move
Facility ID: 188045
Station data: User record
Record ID: 908
Country: U.S.

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

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K14LZ-D	D14	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ABZ	142.7 km
Yes	K14PP-D	D14	LD	CP	FARGO, ND	BNPDTL20100902AAY	4.6
No	K14OO-D	D14	LD	CP	HILLSBORO, ND	BNPDTL20100504ANK	68.0
No	K14PL-D	D14	LD	CP	VALLEY CITY, ND	BNPDTL20100505ALP	121.0
No	K14OJ-D	D14	LD	CP	ABERDEEN, SD	BNPDTL20100331AEX	210.5
No	K14OP-D	D14	LD	CP	SUMMIT, SD	BNPDTL20100505ADV	170.5
No	K15ML-D	D15	LD	CP	DULUTH, MN	BNPDTL20090825AQV	351.7
No	K15GT-D	D15-	LD	LIC	HIBBING, MN	BLANK0000016503	292.1
No	K15GT-D	N15-	TX	LIC	HIBBING, MN	BLTT20040909ABE	292.1
No	KWJM-LD	D15	LD	LIC	Minneapolis, MN	BLANK0000004612	375.1
No	KWJM-LD	D15	LD	CP	Minneapolis, MN	BLANK00000061677	340.0
No	K47JE-D	D15	LD	CP	OLIVIA, MN	BLANK00000053426	274.4
No	K15LS-D	D15	LD	LIC	REDWOOD FALLS, MN	BLANK00000063424	291.0
No	K15JF-D	D15	LD	CP	SAUK CENTRE, MN	BNPDTL20100505AKL	173.9
No	K15IS-D	D15	LD	CP	WILLMAR, MN	BLANK00000068778	229.0
No	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	334.6
No	K48MT-D	D15	LD	APP	BISMARCK, ND	BLANK00000071983	283.4
No	KGFE	D15	DT	LIC	GRAND FORKS, ND	BLEDT20090619ADI	125.0
No	KSRE	D15	DT	LIC	MINOT, ND	BLANK00000069151	373.8
No	K15IR-D	D15	LD	CP	ABERDEEN, SD	BNPDTL20100331AEY	210.5
No	K15JW-D	D15	LD	CP	PLANKINTON, SD	BNPDTL20100510AJD	374.1
No	K16CO-D	D16	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ACF	142.7
No	K16KK-D	D16	LD	CP	BARNSVILLE, MN	BNPDTL20100505AKZ	40.4
No	K16KM-D	D16	LD	CP	BEMIDJI, MN	BDCCDTL20120409AAH	151.1
No	K16BQ	D16+	LD	CP	BRAINERD, MN	BLANK00000047348	205.5
No	KCGE-DT	D16	DT	LIC	CROOKSTON, MN	BLEDT20031024AAC	125.0
No	K16KL-D	D16	LD	CP	JAMESTOWN, ND	BNPDTL20100505ALK	166.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
Mask: Full Service
Latitude: 46 51 23.80 N (NAD83)
Longitude: 96 44 26.40 W
Height AMSL: 348.3 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: SIRA 2x2 150.0 deg
Elev Pattnr: Generic

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.050 kW	74.8 m	14.0 km
45.0	1.31	70.8	29.2
90.0	13.2	67.9	40.0
135.0	10.8	68.1	39.1
180.0	8.94	70.7	38.6
225.0	8.71	72.6	38.8
270.0	0.502	73.2	24.7
315.0	0.032	75.6	12.7

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 72 m

Proposal 23.83 dBu contour does not cross Canadian border

Distance to Canadian border: 238.3 km

Distance to Mexican border: 1870.4 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 192.2 degrees Distance: 673.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 225.5 degrees Distance: 1010.3 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BNPDTL20100902AAY CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K14PP-D	D14	LD	CP	FARGO, ND	BNPDTL20100902AAY	
Undesireds:	K39MA-D	D15	LD	APP	FARGO, ND	K39MA_Ch15_2x2_150deg_	4.6 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	1214.2	168,535		1214.2	168,535	1211.2	0.25
					168,535	167,029	0.89
Undesired				Total IX	Unique IX, before	Unique IX, after	
K39MA-D	D15 LD APP		3.0	1,506		3.0	1,506

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K39MA-D	D15	LD	APP	FARGO, ND	K39MA_Ch15_2x2_150deg_	
Undesireds:	K15GT-D	D15-	LD	LIC	HIBBING, MN	BLANK0000016503	292.1 km
	K16KK-D	D16	LD	CP	BARNESVILLE, MN	BNPDTL20100505AKZ	40.4
	Service area			Terrain-limited	IX-free	Percent IX	
	3120.8	196,550		3120.8	196,509	0.29	0.02
					3111.7		
Undesired				Total IX	Unique IX	Prcnt Unique IX	
K16KK-D	D16 LD CP		9.1	41	9.1	0.29	0.02