

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K15MR_MOD, Model: Longley-Rice
Start: 2021.09.17 16:23:24

Study created: 2021.09.17 16:23:24

Study build station data: LMS TV 2021-09-12

Proposal: K15MR-D D15 LD APP FARGO, ND
File number: K15MR MOD
Facility ID: 188045
Station data: User record
Record ID: 745
Country: U.S.

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	K14LZ-D	D14	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ABZ	142.7 km
Yes	K14PP-D	D14	LD	CP	FARGO, ND	BNPDTL20100902AAY	4.6
No	NEW	D15	LD	CP	DULUTH, MN	BNPDTL20090825AQV	351.7
No	K15GT	D15-	LD	LIC	HIBBING, MN	BLANK0000016503	292.1
No	K15GT	N15-	TX	LIC	HIBBING, MN	BLTT20040909ABE	292.1
No	KWJM-LD	D15	LD	LIC	Minneapolis, MN	BLANK0000129956	340.0
No	K47JE-D	D15	LD	CP	OLIVIA, MN	BLANK0000053426	274.4
No	K39CH-D	D15	LD	LIC	REDWOOD FALLS, MN	BLANK0000063424	291.0
No	K15IS-D	D15	LD	CP	WILLMAR, MN	BLANK0000068778	229.1
No	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	334.7
No	KXBK-LD	D15	LD	LIC	BISMARCK, ND	BLANK0000157540	307.6
Yes	KGFE	D15	DT	LIC	GRAND FORKS, ND	BLEDT20090619ADI	125.0
No	KSRE	D15	DT	LIC	MINOT, ND	BLANK0000069151	373.8
No	K15JW-D	D15	LD	CP	PLANKINTON, SD	BNPDTL20100510AJD	374.2
No	K16CO-D	D16	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ACF	142.7
No	K16KM-D	D16	LD	LIC	BEMIDJI, MN	BLANK0000121240	151.1
No	K16BQ-D	D16+	LD	LIC	BRAINERD, MN	BLANK0000152329	205.5
No	KCGE-DT	D16	DT	LIC	CROOKSTON, MN	BLEDT20031024AAC	125.0

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 24.40 N (NAD83)
Longitude: 96 44 26.70 W
Height AMSL: 358.8 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: ATC-BCC312M-V3-15 150.0 deg
Elev Pattn: Generic
Elec Tilt: 0.75

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	6.90 kW	85.3 m	39.5 km
45.0	6.42	81.3	38.6
90.0	10.3	78.5	40.5
135.0	14.6	78.6	42.2
180.0	13.6	81.2	42.2
225.0	8.61	83.1	40.3
270.0	6.16	83.7	38.7
315.0	7.34	86.1	39.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 82 m

Proposal 23.83 dBu contour does not cross Canadian border

Distance to Canadian border: 238.2 km

Distance to Mexican border: 1870.4 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 192.2 degrees Distance: 673.3 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: 1.00 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
**IX: 8.43% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14PP-D	D14	LD	CP	FARGO, ND	BNPDTL20100902AAY	
Undesireds:	K15MR-D	D15	LD	APP	FARGO, ND	K15MR_MOD	4.6 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	1214.2	168,535		1214.2	168,535	1172.2 154,324	3.46 8.43
Undesired				Total IX	Unique IX, before	Unique IX, after	
K15MR-D D15 LD APP		42.0		14,211	42.0	14,211	

Interference to BLEDT20090619ADI LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGFE	D15	DT	LIC	GRAND FORKS, ND	BLEDT20090619ADI	
Undesireds:	K15MR-D	D15	LD	APP	FARGO, ND	K15MR_MOD	125.0 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	11753.2	114,475		11753.2	114,475	11742.0 114,474	0.09 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K15MR-D D15 LD APP		11.1		1	11.1	1	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K15MR-D	D15	LD	APP	FARGO, ND	K15MR_MOD	
Undesireds:	K15GT	D15-	LD	LIC	HIBBING, MN	BLANK0000016503	292.1 km
	Service area			Terrain-limited	IX-free	Percent IX	
	5089.5	205,219		5089.5	205,219	0.00 0.00	