

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Fargo20d9kwELTI180T, Model: Longley-Rice

Start: 2021.07.21 11:59:55

Study created: 2021.07.21 11:59:55

Study build station data: LMS TV 2021-07-21

Proposal: K48NB-D D20 LD APP Fargo, ND

Facility ID: 185887

Station data: User record

Record ID: 697

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	K19MS-D	D19	LD	CP	ALEXANDRA, MN	BLANK0000072314	146.3 km
No	KVRR	D19	DT	LIC	FARGO, ND	BLCDT20090820ABE	44.0
No	K38AC-D	D20	LD	LIC	ALEXANDRIA, MN	BLANK0000063270	142.7
No	K20NH-D	D20	LD	LIC	BRAINERD, MN	BLANK0000068736	205.5
No	K20LV-D	D20	LD	CP	BREWSTER, MN	BNPDTL20100510AJH	372.3
No	K20OP-D	D20	LD	CP	DULUTH, MN	BLANK0000071805	351.4
No	K20NR-D	D20-	LD	LIC	INTERNATIONAL FALLS, MN	BLANK0000067247	318.9
No	KMBD-LD	D20	LD	LIC	MINNEAPOLIS, MN	BLANK0000121916	340.0
No	K20JY-D	D20	LD	LIC	OLIVIA, MN	BLD TT20120213ABM	274.4
No	K20MN-D	D20	LD	LIC	RED LAKE, MN	BLANK0000068193	168.7
No	K20KW-D	D20	LD	CP	SAINT CLOUD, MN	BLANK0000013930	213.6
No	K20LP-D	D20	LD	LIC	ST. JAMES, MN	BLD TL20120625AAR	348.1
No	K20OR-D	D20	LD	CP	CASSELTON, ND	BNPDTL20100505ALC	41.5
No	KJRE	D20	DT	LIC	ELLENDALE, ND	BLED T20041109AAB	173.8
No	K20LE-D	D20	LD	CP	GRAND FORKS, ND	BNPDTL20100505AJT	140.3
No	KABY-LD	D20	LD	LIC	SIOUX FALLS, SD	BLANK0000013894	371.4
No	K20KZ-D	D20	LD	CP	WATERTOWN, SD	BNPDTL20100505ADZ	220.4
No	K21GN-D	D21	LD	LIC	ALEXANDRIA, MN	BLD TL20120312ACI	142.7

No	K21HX-D	D21	LD	LIC	WALKER, MN	BLDTT20140224ACZ	166.0
No	WDAY-TV	D21	DT	LIC	FARGO, ND	BLCDT20061222ABH	38.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20  
Mask: Stringent  
Latitude: 46 51 23.80 N (NAD83)  
Longitude: 96 44 28.00 W  
Height AMSL: 290.0 m  
HAAT: 0.0 m  
Peak ERP: 9.00 kW  
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 180.0 deg  
Elev Pattn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.022 kW	16.5 m	7.2 km
45.0	0.049	12.5	8.7
90.0	0.008	9.7	5.5
135.0	1.93	9.8	21.6
180.0	9.00	12.4	28.7
225.0	1.81	14.2	21.3
270.0	0.007	15.0	5.5
315.0	0.068	17.2	9.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 13 m

Proposal 24.36 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

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%

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Interference to proposal scenario 1  
19.69% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48NB-D	D20	LD	APP	Fargo, ND		
Undesireds:	KVRR	D19	DT	LIC	FARGO, ND	BLCDT20090820ABE	44.0 km
	K20OR-D	D20	LD	CP	CASSELTON, ND	BNPDTL20100505ALC	41.5
	WDAY-TV	D21	DT	LIC	FARGO, ND	BLCDT20061222ABH	38.7

Service area	Terrain-limited	IX-free	Percent IX
793.7 129,947	793.7 129,947	428.2 104,354	46.04 19.69

Undesired	Total IX	Unique IX	Prcnt Unique IX
KVRR D19 DT LIC 31.0 20,335 13.0 15,812 1.64 12.17			
K20OR-D D20 LD CP 91.3 5,529 7.0 2,258 0.88 1.74			
WDAY-TV D21 DT LIC 345.4 7,523 258.1 771 32.53 0.59			