

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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K47OE_Ch18_2x2_150deg_Move_Less_Pre, Model: Longley-Rice
Start: 2019.04.19 11:41:33

Study created: 2019.04.19 11:41:32

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

Proposal: K47OE-D D18 LD APP FARGO, ND
File number: K47OE_Ch18_2x2_150deg_Move
Facility ID: 188580
Station data: User record
Record ID: 909
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

Individual records excluded:
61961 KVLV-TV D18 DT BL FARGO, ND DTVBL61961

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17NW-D	D17	LD	LIC	ALEXANDRIA, MN	BLANK0000063269	142.7 km
No	K16JN-D	D17	LD	APP	SAINT CLOUD, MN	BLANK0000071905	214.2
No	K17FE	N17+	TX	LIC	WADENA, MN	BLTT20021223AAH	137.8
Yes	K17LT-D	D17	LD	CP	FARGO, ND	BNPDTL20100902AAZ	4.6
No	K17HG	N17-	TX	LIC	GRAND FORKS, ND	BLTTL20051101ABL	125.0
No	KDSD-TV	D17	DT	LIC	ABERDEEN, SD	BLED20110816AAM	167.2
Yes	K18DG-D	D18z	LD	LIC	ALEXANDRIA, MN	BLANK0000024529	142.7
No	KQDS-TV	D18	DT	CP	DULUTH, MN	BLANK0000027535	351.6
No	K18KU-D	D18	LD	CP	DULUTH, MN	BNPDTL20100514AAL	351.4
No	K18MB-D	D18	LD	LIC	INTERNATIONAL FALLS, MN	BLANK0000063839	318.9
No	K18GF-D	D18	LD	LIC	LITTLE FALLS, MN	BLDTL20120523ADD	206.0
No	KHVM-LD	D18	LD	CP	MINNEAPOLIS, MN	BLANK0000052068	339.5
No	K18JM-D	D18	LD	LIC	NORTHOME, MN	BLDTT20111006ACL	211.7
No	K18IR-D	D18	LD	LIC	OLIVIA, MN	BLDTT20120213ABO	274.4
No	K18NE-D	D18	LD	LIC	ST. JAMES, MN	BLANK0000068150	348.1
No	K18MO-D	D18	LD	LIC	WORTHINGTON, MN	BLANK0000064317	369.3
No	K17HG	D18	LD	CP	GRAND FORKS, ND	BDISDTL20090812AAN	125.0
No	K18IW-D	D18	LD	CP	RAPID CITY, SD	BPD20140613ABU	345.3
No	K18IW-D	D18	LD	LIC	RAPID CITY, SD	BLDTL20140228AEJ	345.2
No	KVRR	D19	DT	LIC	FARGO, ND	BLCDT20090820ABE	44.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
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

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.054 kW	74.8 m	14.0 km
45.0	1.15	70.8	28.2

90.0	13.7	67.9	39.9
135.0	10.6	68.1	38.7
180.0	9.31	70.7	38.4
225.0	9.04	72.6	38.6
270.0	0.465	73.2	23.9
315.0	0.030	75.6	12.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 72 m

Proposal 24.15 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 BNPDTL20100902AAZ CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17LT-D	D17	LD	CP	FARGO, ND	BNPDTL20100902AAZ	
Undesireds:	K47OE-D	D18	LD	APP	FARGO, ND	K47OE_Ch18_2x2_150deg_	4.6 km
	K17HG	N17-	TX	LIC	GRAND FORKS, ND	BLTTL20051101ABL	128.8
	K17NF-D	D17+	LD	LIC	BROOKINGS, SD	BLANK0000059096	275.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	1176.0	166,729	1176.0	166,729	1176.0	165,223	0.26 0.90
Undesired			Total IX		Unique IX, before	Unique IX, after	
K47OE-D D18 LD APP		3.0	1,506		3.0	1,506	

Interference to BLANK0000024529 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18DG-D	D18z	LD	LIC	ALEXANDRIA, MN	BLANK0000024529	
Undesireds:	K47OE-D	D18	LD	APP	FARGO, ND	K47OE_Ch18_2x2_150deg_	142.7 km
	KQDS-TV	D18	DT	CP	DULUTH, MN	BLANK0000027535	272.7
	K18IW-D	D18	LD	CP	RAPID CITY, SD	BPDTL20140613ABU	267.8
	KVRR	D19	DT	LIC	FARGO, ND	BLCDT20090820ABE	101.9
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4095.1	52,872	4079.9	52,590	4067.8	52,565	0.00 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K47OE-D D18 LD APP		1.0	0		0.0	0	
KQDS-TV D18 DT CP		1.0	0	0.0	0	0	
KVRR D19 DT LIC		12.2	25	11.1	25	11.1	25

Interference to proposal scenario 1

3.20% interference received

Desired:	Call K470E-D	Chan D18	Svc LD	Status APP	City, State FARGO, ND	File Number K470E_Ch18_2x2_150deg_	Distance
Undesireds:	KVRR	D19	DT	LIC	FARGO, ND	BLCDT20090820ABE	44.0 km

Service area	Terrain-limited	IX-free	Percent IX
3068.4 195,940	3068.4 195,940 2938.2	189,662	4.24 3.20

Undesired	Total IX	Unique IX	Prcnt Unique IX
KVRR D19 DT LIC	130.2 6,278 130.2	6,278	4.24 3.20