

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

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: K48MT\_Ch15\_Omni\_Pre, Model: Longley-Rice  
Start: 2019.04.18 09:02:05

Study created: 2019.04.18 08:56:14

Study build station data: LMS TV 2019-04-16

Proposal: K48MT-D D15 LD APP BISMARCK, ND  
File number: K48MT\_Ch15\_Omni  
Facility ID: 185742  
Station data: User record  
Record ID: 842  
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	K14OF-D	D14	LD	CP	BISMARCK, ND	BNPDTL20100422ACU	0.0 km
No	K14ON-D	D14	LD	CP	DICKINSON, ND	BNPDTL20100506ACB	171.1
No	KMCY	D14	DT	LIC	MINOT, ND	BLCDT20090203ADC	153.0
No	K14PL-D	D14	LD	CP	VALLEY CITY, ND	BNPDTL20100505ALP	162.6
No	K14OJ-D	D14	LD	CP	ABERDEEN, SD	BNPDTL20100331AEX	209.5
No	K15JT-D	D15	LD	CP	TERRY, MT	BNPDTL20100506AED	372.9
No	KGFE	D15	DT	LIC	GRAND FORKS, ND	BLEDT20090619ADI	317.6
Yes	KSRE	D15	DT	LIC	MINOT, ND	BLANK0000069151	152.9
No	K15IR-D	D15	LD	CP	ABERDEEN, SD	BNPDTL20100331AEY	209.5
No	K15JS-D	D15	LD	CP	PHILIP, SD	BNPDTL20100510AHM	347.4
No	K31KU-D	D15	LD	CP	RAPID CITY, SD	BLANK0000053755	363.3
No	K16KL-D	D16	LD	CP	JAMESTOWN, ND	BNPDTL20100505ALK	116.8

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 49 26.70 N (NAD83)  
Longitude: 100 28 7.60 W  
Height AMSL: 618.8 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	82.6 m	42.9 km
45.0	15.0	70.8	41.1
90.0	15.0	65.5	40.3
135.0	15.0	94.3	44.5
180.0	15.0	79.5	42.5
225.0	15.0	79.1	42.4
270.0	15.0	92.3	44.2
315.0	15.0	73.4	41.5

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 80 m

Proposal 23.83 dBu contour does not cross Canadian border

Distance to Canadian border: 241.8 km

Distance to Mexican border: 1749.7 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 165.3 degrees    Distance: 676.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 209.0 degrees    Distance: 834.5 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%

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Interference to BLANK0000069151 LIC scenario 1

Desired:	Call KSRE	Chan D15	Svc DT	Status LIC	City, State MINOT, ND	File Number BLANK0000069151	Distance			
Undesireds:	K48MT-D	D15	LD	APP	BISMARCK, ND	K48MT_Ch15_Omni	152.9 km			
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
17422.0	75,325	17407.9		75,325	17407.9	75,325	17403.8	75,325	0.02	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after				
K48MT-D	D15	LD	APP	4.0	0	4.0	0			

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48MT-D	D15	LD	APP	BISMARCK, ND	K48MT_Ch15_Omni	
Undesireds:	KSRE	D15	DT	LIC	MINOT, ND	BLANK0000069151	152.9 km
Service area		Terrain-limited			IX-free	Percent IX	
5614.8	103,340	5431.8	103,114		5359.7	103,073	1.33 0.04
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KSRE	D15	DT	LIC	72.1	41	72.1	41 1.33 0.04