

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: StJl7d500wShortP, Model: Longley-Rice  
Start: 2018.05.01 07:31:55

Study created: 2018.05.01 07:31:55

Study build station data: LMS TV 2018-04-27

Proposal: K40BU-D D17 LD APP ST. JAMES, MN  
Facility ID: 13847  
Station data: User record  
Record ID: 567  
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	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDT20110609ABE	265.5 km
No	K16CP-D	D16	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ADB	109.8
No	K16JN-D	D16	LD	CP	SAINT CLOUD, MN	BLANK0000013921	169.3
No	KPXM-TV	D16	DT	CP	ST. CLOUD, MN	BLANK0000034401	158.2
No	KPXM-TV	D16	DT	APP	ST. CLOUD, MN	BLANK0000041060	166.6
No	K16CG-D	D16	LD	LIC	ST. JAMES, MN	BLDTL20120625AAQ	0.0
No	K16HY-D	D16	LD	LIC	ST. PAUL, MN	BLDTL20100521ACA	142.7
No	K17MH-D	D17	LD	CP	CEDAR FALLS, IA	BNPDTL20101013ABB	209.8
No	KWQC-TV	D17	DT	CP	DAVENPORT, IA	BLANK0000033932	440.3
No	KDAO-CD	D17-	DC	CP	MARSHALLTOWN, IA	BLANK0000034815	264.1
No	KGLU-LD	D17	LD	CP	OTTUMWA, IA	BLANK0000010611	361.9
No	KQDS-TV	D17	DT	LIC	DULUTH, MN	BLCDT20060707ADN	355.7
No	WUMN-LD	D17	LD	LIC	MINNEAPOLIS, MN	BLDTL20141217AAM	142.6
Yes	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAY	57.2
No	K17MA-D	D17	LD	CP	RUSHMORE, MN	BNPDTL20100510AHY	107.2
No	K17FE	N17+	TX	LIC	WADENA, MN	BLTT20021223AAH	256.3
No	K17FA-D	D17	LD	LIC	WILLMAR, MN	BLDTT20100122ABO	122.8
No	K17LT-D	D17	LD	CP	FARGO, ND	BNPDTL20100902AAZ	345.5

No	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	332.2
No	KYNE-TV	D17	DT	APP	OMAHA, NE	BLANK0000035901	332.2
No	KDSD-TV	D17	DT	LIC	ABERDEEN, SD	BLEDT20110816AAM	287.6
No	K40FZ-D	D17+	LD	APP	BROOKINGS, SD	BLANK0000052874	174.7
No	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	295.4
No	WLAX	D17	DT	LIC	LA CROSSE, WI	BLCDT20081105ABY	260.4
No	KYIN	D18	DT	LIC	MASON CITY, IA	BLEDT20090612AHJ	167.2
No	K18KG-D	D18	LD	LIC	SPENCER, IA	BLDTL20130327AAU	99.5
No	KHVM-LD	D18	LD	APP	MINNEAPOLIS, MN	BLANK0000052068	155.2
No	KJNK-LD	D18	LD	APP	MINNEAPOLIS, MN	BLANK0000051592	142.7
No	K18IR-D	D18	LD	LIC	OLIVIA, MN	BLDTT20120213ABO	75.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17  
 Mask: Stringent  
 Latitude: 44 6 28.00 N (NAD83)  
 Longitude: 94 35 56.00 W  
 Height AMSL: 496.0 m  
 HAAT: 0.0 m  
 Peak ERP: 0.500 kW  
 Antenna: Omnidirectional  
 Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.500 kW	185.4 m	33.7 km
45.0	0.500	188.0	33.8
90.0	0.500	184.6	33.6
135.0	0.500	182.0	33.5
180.0	0.500	174.8	33.1
225.0	0.500	170.1	32.8
270.0	0.500	173.1	33.0
315.0	0.500	182.5	33.5

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 180 m

Distance to Canadian border: 488.2 km

Distance to Mexican border: 1702.5 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 222.9 degrees    Distance: 473.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 247.0 degrees    Distance: 979.0 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%

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Interference to BLDTT20120604AAY LIC scenario 1  
\*\*IX: 2.10% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAY	
Undesireds:	K40BU-D	D17	LD	APP	ST. JAMES, MN		57.2 km
	K18IR-D	D18	LD	LIC	OLIVIA, MN	BLDTT20120213ABO	24.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1912.6      14,127	1909.6      14,125	1885.6      14,063	1776.3      13,767	5.80      2.10
Undesired	Total IX	Unique IX, before	Unique IX, after	
K40BU-D D17 LD APP	109.3      296		109.3      296	
K18IR-D D18 LD LIC	24.1      62	24.1      62	24.1      62	

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K40BU-D	D17	LD	APP	ST. JAMES, MN		
Undesireds:	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLD TT20120604AAY	57.2 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK00000019249	332.2

Service area	Terrain-limited	IX-free	Percent IX
3508.4      44,443	3505.3      44,421	3475.2      44,230	0.86      0.43
Undesired	Total IX	Unique IX	Prcnt Unique IX
K17BV-D D17 LD LIC	30.1      191	30.1      191	0.86      0.43