

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: Jackson17d2kwFP, Model: Longley-Rice
 Start: 2018.04.28 11:00:13

Study created: 2018.04.28 11:00:13

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

Proposal: K40LA-D D17 LD APP JACKSON, MN
 Facility ID: 125741
 Station data: User record
 Record ID: 543
 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	BLC DT20110609ABE	226.9 km
No	KEJK-LD	D16	LD	LIC	SIOUX CITY, IA	BLANK0000010491	163.8
No	K16CP-D	D16	LD	LIC	GRANITE FALLS, MN	BLD TL20110824ADB	141.5
No	KPXM-TV	D16	DT	CP	ST. CLOUD, MN	BLANK0000034401	222.5
No	KPXM-TV	D16	DT	APP	ST. CLOUD, MN	BLANK0000041060	230.7
No	K16CG-D	D16	LD	LIC	ST. JAMES, MN	BLD TL20120625AAQ	64.3
No	K16HY-D	D16	LD	LIC	ST. PAUL, MN	BLD TL20100521ACA	205.0
No	K17MH-D	D17	LD	CP	CEDAR FALLS, IA	BNP DTL20101013ABB	198.7
No	KWQC-TV	D17	DT	CP	DAVENPORT, IA	BLANK0000033932	434.5
No	KDAO-CD	D17-	DC	CP	MARSHALLTOWN, IA	BLANK0000034815	239.7
No	KGLU-LD	D17	LD	LIC	OTTUMWA, IA	BLANK0000010561	375.6
No	KGLU-LD	D17	LD	CP	OTTUMWA, IA	BLANK0000010611	330.6
No	KQDS-TV	D17	DT	LIC	DULUTH, MN	BLC DT20060707ADN	420.0
No	WUMN-LD	D17	LD	LIC	MINNEAPOLIS, MN	BLD TL20141217AAM	204.9
No	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLD TT20120604AAY	105.2
Yes	K17MA-D	D17	LD	CP	RUSHMORE, MN	BNP DTL20100510AHY	62.0
No	K17FE	N17+	TX	LIC	WADENA, MN	BLTT20021223AAH	309.8
No	K17FA-D	D17	LD	LIC	WILLMAR, MN	BLD TT20100122ABO	173.8

No	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	268.7
No	KYNE-TV	D17	DT	APP	OMAHA, NE	BLANK0000035901	268.7
No	KDSD-TV	D17	DT	LIC	ABERDEEN, SD	BLEDT20110816AAM	299.1
No	K40FZ-D	D17+	LD	APP	BROOKINGS, SD	BLANK0000052874	163.9
No	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	342.5
No	WLAX	D17	DT	LIC	LA CROSSE, WI	BLCDT20081105ABY	291.8
No	KYIN	D18	DT	LIC	MASON CITY, IA	BLEDT20090612AHJ	184.6
Yes	K18KG-D	D18	LD	LIC	SPENCER, IA	BLDTL20130327AAU	38.7
No	KHVM-LD	D18	LD	APP	MINNEAPOLIS, MN	BLANK0000052068	217.7
No	K18IR-D	D18	LD	LIC	OLIVIA, MN	BLDTT20120213ABO	128.8
No	K18IW-D	D18	LD	CP	RAPID CITY, SD	BPDTL20140613ABU	153.4
No	K18IW-D	D18	LD	LIC	RAPID CITY, SD	BLDTL20140228AEJ	153.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Mask: Full Service
Latitude: 43 36 12.00 N (NAD83)
Longitude: 94 59 34.00 W
Height AMSL: 526.0 m
HAAT: 0.0 m
Peak ERP: 2.00 kW
Antenna: Omnidirectional
Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.00 kW	89.3 m	33.6 km
45.0	2.00	102.3	35.2
90.0	2.00	103.9	35.3
135.0	2.00	104.9	35.4
180.0	2.00	90.4	33.8
225.0	2.00	89.3	33.6
270.0	2.00	77.1	32.0

315.0 2.00 69.5 30.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 91 m

Distance to Canadian border: 551.7 km

Distance to Mexican border: 1638.6 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 224.7 degrees Distance: 410.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 249.1 degrees Distance: 928.8 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 BNPDTL20100510AHY CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17MA-D	D17	LD	CP	RUSHMORE, MN	BNPDTL20100510AHY	
Undesireds:	K40LA-D	D17	LD	APP	JACKSON, MN		62.0 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	259.1
	K18IW-D	D18	LD	CP	RAPID CITY, SD	BPDTL20140613ABU	91.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1601.5	20,195	1601.5	20,195	1601.5	20,195	1455.7	19,807	9.11	1.92
Undesired			Total IX		Unique IX, before		Unique IX, after		
K40LA-D D17 LD APP		145.9	388			145.9	388		

Interference to BLDTL20130327AAU LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18KG-D	D18	LD	LIC	SPENCER, IA	BLDTL20130327AAU	
Undesireds:	K40LA-D	D17	LD	APP	JACKSON, MN		38.7 km
	KYIN	D18	DT	LIC	MASON CITY, IA	BLEDT20090612AHJ	184.9
	K18DG-D	D18z	LD	LIC	ALEXANDRIA, MN	BLANK0000024529	299.9
	K18CD-D	D18	LD	CP	LINCOLN, NE	BLANK0000036613	304.2
	K18IW-D	D18	LD	CP	RAPID CITY, SD	BPDTL20140613ABU	163.8
	K19HZ-D	D19	LD	LIC	JACKSON, MN	BLDTT20090910AAS	38.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5499.2	57,211	5499.2	57,211	5375.8	54,745	5375.8	54,745	0.00	0.00
Undesired			Total IX		Unique IX, before		Unique IX, after		
K40LA-D D17 LD APP		5.1	2,119			0.0	0		
KYIN D18 DT LIC		2.0	0	2.0	0	2.0	0		
K19HZ-D D19 LD LIC		121.4	2,466	121.4	2,466	116.4	347		

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K40LA-D	D17	LD	APP	JACKSON, MN		
Undesireds:	K17MA-D	D17	LD	CP	RUSHMORE, MN	BNPDTL20100510AHY	62.0 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	268.7
	K18KG-D	D18	LD	LIC	SPENCER, IA	BLDTL20130327AAU	38.7

Service area		Terrain-limited			IX-free		Percent IX
3632.2	42,839	3632.2	42,839	3629.2	42,832	0.08	0.02
Undesired		Total IX			Unique IX	Prcnt Unique IX	
K17MA-D D17 LD CP		1.0	0	1.0	0	0.03	0.00
K18KG-D D18 LD LIC		2.0	7	2.0	7	0.05	0.02