

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: STJames21d350wSP, Model: Longley-Rice
Start: 2018.08.14 07:52:04

Study created: 2018.08.14 07:52:04

Study build station data: LMS TV 2018-08-02

Proposal: K21DG-D D21 LD APP ST. JAMES, MN
Facility ID: 13838
Station data: User record
Record ID: 932
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	KSMQ-TV	D20	DT	LIC	AUSTIN, MN	BLEDT20081223AAK	173.9 km
No	K20LV-D	D20	LD	CP	BREWSTER, MN	BNPDTL20100510AJH	83.5
No	KMBD-LD	D20	LD	CP	MINNEAPOLIS, MN	BLANK0000051629	142.7
No	K20JY-D	D20	LD	LIC	OLIVIA, MN	BLDTT20120213ABM	75.6
No	K20KW-D	D20	LD	CP	SAINT CLOUD, MN	BLANK0000013930	169.3
No	K20LP-D	D20	LD	LIC	ST. JAMES, MN	BLDTL20120625AAR	0.0
No	KABY-LD	D20	LD	LIC	SIOUX FALLS, SD	BLANK0000013894	168.5
No	KGCW	D21	DT	CP	BURLINGTON, IA	BLANK0000028473	452.9
No	KGCW	D21	DT	APP	BURLINGTON, IA	BLANK0000034909	462.7
No	KMIK-LD	D21	LD	LIC	Cedar Rapids, IA	BLANK0000004384	255.0
No	KMIK-LD	D21	LD	CP	Cedar Rapids, IA	BLANK0000004671	298.9
No	KAJR-LD	D21	LD	CP	FORT DODGE, IA	BLANK0000051611	278.5
No	KBVK-LP	D21	LD	LIC	SPENCER, IA	BLDTL20130327AAK	99.5
No	K21GN-D	D21	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ACI	213.6
No	K21KZ-D	D21	LD	CP	DULUTH, MN	BNPDTL20090902AAE	328.6
No	K21KR-D	D21	LD	CP	DULUTH, MN	BNPDTL20090825AQR	355.2
Yes	K21KF-D	D21	LD	LIC	FROST, MN	BLDTL20130321ACF	79.0
Yes	K48KJ-D	D21	LD	APP	GENEVA, MN	BLANK0000051972	97.2

No	K21LF-D	D21	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACJ	109.8
No	WUMN-LD	D21	LD	APP	MINNEAPOLIS, MN	BLANK0000053279	142.6
No	K38LC-D	D21	LD	APP	OLIVIA, MN	BLANK0000053919	75.6
No	K21HX-D	D21	LD	LIC	WALKER, MN	BLDTT20140224ACZ	331.8
No	WDAY-TV	D21	DT	LIC	FARGO, ND	BLCDDT20061222ABH	380.6
No	KQMK-LD	D21	LD	CP	LINCOLN, NE	BLANK0000052625	339.0
No	K21HS	N21-	TX	LIC	NORFOLK, NE	BLTT20060510AAY	321.6
Yes	KDLT-TV	D21	DT	CP	SIOUX FALLS, SD	BLANK0000027512	170.7
No	K21LK-D	D21	LD	CP	WENTWORTH, SD	BNPDTL20100505AEK	185.5
No	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	250.7
No	W21DH-D	D21	LD	CP	EAU CLAIRE, WI	BNPDTL20100507ACR	268.7
No	W21DC-D	D21	LD	CP	GALESVILLE, WI	BNPDTL20090825CAZ	266.8
No	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000034588	424.1
No	K22LJ-D	D22	LD	CP	MASON CITY, IA	BNPDTL20100723AQR	152.5
No	K22DO-D	D22	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACP	109.8
No	K36IV-D	D22	LD	CP	JACKSON, MN	BLANK0000054494	64.3
No	WUCW	D22	DT	LIC	MINNEAPOLIS, MN	BLCDDT20060405AAI	156.8
No	K22KU-D	D22	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAW	57.2
No	K45LJ-D	D22	LD	CP	ST. JAMES, MN	BLANK0000053840	0.0
No	K22LG-D	D22	LD	CP	WELLS, MN	BNPDTL20100510AJO	85.3
No	K44AE-D	D22	LD	CP	WILLMAR, MN	BLANK0000053651	122.8
No	K22HJ-D	D22	LD	LIC	WORTHINGTON, MN	BLDTL20131213AAJ	103.0
No	K22KD-D	D22	LD	CP	SIOUX FALLS, SD	BNPDTL20100111AFI	178.2
No	K22KF-D	D22	LD	CP	WATERTOWN, SD	BNPDTL20100331AFD	212.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21
Mask: Simple
Latitude: 44 6 28.00 N (NAD83)
Longitude: 94 35 56.00 W
Height AMSL: 496.0 m
HAAT: 0.0 m
Peak ERP: 0.350 kW

Antenna: Omnidirectional
Elev Pattn: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.350 kW	185.4 m	31.4 km
45.0	0.350	188.0	31.5
90.0	0.350	184.6	31.3
135.0	0.350	182.0	31.2
180.0	0.350	174.8	30.8
225.0	0.350	170.1	30.5
270.0	0.350	173.1	30.7
315.0	0.350	182.5	31.2

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

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 BLDTL20130321ACF LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21KF-D	D21	LD	LIC	FROST, MN	BLDTL20130321ACF	
Undesireds:	K21DG-D	D21	LD	APP	ST. JAMES, MN		79.0 km
	KMIK-LD	D21	LD	LIC	Cedar Rapids, IA	BLANK0000004384	176.1
	K48KJ-D	D21	LD	APP	GENEVA, MN	BLANK0000051972	67.3
	KDLT-TV	D21	DT	CP	SIOUX FALLS, SD	BLANK0000027512	211.8
	K22LG-D	D22	LD	CP	WELLS, MN	BNPDTL20100510AJO	16.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3546.8 21,065		3546.8 21,065		3479.9 20,885		3472.8 20,883	0.20 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
K21DG-D	D21 LD APP	7.1	2			7.1	2
K48KJ-D	D21 LD APP	31.4	78	31.4	78	31.4	78
KDLT-TV	D21 DT CP	12.1	39	12.1	39	12.1	39
K22LG-D	D22 LD CP	23.3	63	23.3	63	23.3	63

Interference to BLANK0000051972 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48KJ-D	D21	LD	APP	GENEVA, MN	BLANK0000051972	
Undesireds:	K21DG-D	D21	LD	APP	ST. JAMES, MN		97.2 km
	KMIK-LD	D21	LD	LIC	Cedar Rapids, IA	BLANK0000004384	192.0
	K21KF-D	D21	LD	LIC	FROST, MN	BLDTL20130321ACF	67.3
	WUMN-LD	D21	LD	APP	MINNEAPOLIS, MN	BLANK0000053279	103.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4449.0 104,188		4449.0 104,188		4411.6 104,027		4410.6 104,000	0.02 0.03
Undesired		Total IX		Unique IX, before		Unique IX, after	
K21DG-D	D21 LD APP	1.0	27			1.0	27

K21KF-D	D21	LD	LIC	33.4	129	33.4	129	33.4	129
WUMN-LD	D21	LD	APP	4.0	32	4.0	32	4.0	32

Interference to BLANK0000027512 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDLT-TV	D21	DT	CP	SIOUX FALLS, SD	BLANK0000027512	
Undesireds:	K21DG-D	D21	LD	APP	ST. JAMES, MN		170.7 km
	WDAY-TV	D21	DT	LIC	FARGO, ND	BLCDT20061222ABH	392.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	44115.1	641,370	43458.8	630,306	43412.8	630,249	43099.7 627,106 0.72 0.50
Undesired				Total IX	Unique IX, before	Unique IX, after	
K21DG-D	D21	LD	APP	314.1	3,143	313.1	3,143
WDAY-TV	D21	DT	LIC	46.1	57	45.1	57

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K21DG-D	D21	LD	APP	ST. JAMES, MN		
Undesireds:	KMIK-LD	D21	LD	LIC	Cedar Rapids, IA	BLANK0000004384	255.0 km
	KBVK-LP	D21	LD	LIC	SPENCER, IA	BLDTL20130327AAK	99.5
	K48KJ-D	D21	LD	APP	GENEVA, MN	BLANK0000051972	97.2
	KDLT-TV	D21	DT	CP	SIOUX FALLS, SD	BLANK0000027512	170.7
	Service area		Terrain-limited		IX-free	Percent IX	
	3044.9	39,761	3040.8	39,746	3034.8	39,510	0.20 0.59
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KBVK-LP	D21	LD	LIC	1.0	49	0.0	0 0.00 0.00
K48KJ-D	D21	LD	APP	2.0	14	2.0	14 0.07 0.04
KDLT-TV	D21	DT	CP	4.0	222	3.0	173 0.10 0.44