

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: Jackson34dXFP, Model: Longley-Rice  
Start: 2018.04.28 11:21:47

Study created: 2018.04.28 11:16:28

Study build station data: LMS TV LMSonApril122018

Proposal: K51KT-D D34 LD APP JACKSON, MN  
Facility ID: 5895  
Station data: User record  
Record ID: 546  
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	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	270.1 km
No	KAAL	D33	LD	LIC	AUSTIN, MN	BLCDT20091009AAG	126.5
No	K33LN-D	D33	DC	LIC	MINNEAPOLIS, MN	BLDTA20111219AEB	205.0
No	K33LB-D	D33	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAS	105.2
Yes	K33MW-D	D33	LD	CP	SHERBURN, MN	BNPDTL20100510AJK	12.9
No	K33LS-D	D33	LD	CP	ELK POINT, SD	BNPDTL20100505AET	170.3
No	K33NF-D	D33	LD	CP	HUMBOLDT, SD	BNPDTL20100510AIJ	173.5
No	K33LR-D	D33	LD	CP	WENTWORTH, SD	BNPDTL20100505AEM	158.6
No	KMZM-LD	D34	LD	LIC	Cedar Rapids, IA	BLANK0000004392	246.5
No	KMZM-LD	D34	LD	CP	Cedar Rapids, IA	BLANK00000036461	251.7
No	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	455.9
No	K34AF-D	D34	LD	LIC	ALEXANDRIA, MN	BLDTL20120313ABQ	261.4
No	NEW	D34	LD	APP	DULUTH, MN	BNPDTL20100513ABP	419.1
No	K34MP-D	D34	LD	CP	OAKLAND, MN	BNPDTL20100510AJY	153.5
Yes	K34JX-D	D34	LD	LIC	ST. JAMES, MN	BLDTL20091204ADL	64.4
No	KTCA-TV	D34	DT	LIC	ST. PAUL, MN	BLEDT20060802AAO	219.6
No	K34HO-D	D34	LD	LIC	WILLMAR, MN	BLDTL20100122ABL	173.8
No	K34LV-D	D34	LD	CP	HORACE, ND	BNPDTL20100505ADL	367.8

No	K34IB-D	D34	LD	LIC	DECATUR, NE	BLDTT20081125APS	205.3
No	KQLD-LD	D34	LD	LIC	Omaha, NE	BLANK0000005061	332.0
No	KQLD-LD	D34	LD	CP	Omaha, NE	BLANK00000036426	335.7
No	K34MW-D	D34	LD	CP	KIMBALL, SD	BNPDTL20100510AJC	330.9
No	KUSD-TV	D34	DT	LIC	VERMILLION, SD	BLEDT20100310ABZ	157.3
No	W50DR-D	D34	LD	APP	LA CROSSE, WI	BLANK00000052410	292.1
No	W34EO-D	D34	LD	CP	WAUSAU, WI	BLANK00000008337	425.7
No	KHIN	D35	DT	LIC	RED OAK, IA	BLANK00000030114	252.0
No	K35IU-D	D35	LD	LIC	FROST, MN	BLDTT20090730ADE	85.6
No	K35DK-D	D35	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACZ	141.5
No	K35IZ-D	D35	LD	LIC	JACKSON, MN	BLDTT20090811AAV	0.0
No	K35KI-D	D35	LD	LIC	ST. JAMES, MN	BLDTL20120625AAV	64.3
No	KSTP-TV	D35	DT	APP	ST. PAUL, MN	BLANK00000036053	219.1
No	KSTP-TV	D35	DT	LIC	ST. PAUL, MN	BLCDT20090622ABR	219.1
No	K35KT-D	D35	LD	CP	ELK POINT, SD	BNPDTL20100505AEU	170.3
No	K35LZ-D	D35	LD	CP	HUMBOLDT, SD	BNPDTL20100510AIK	173.5
No	NEW	D35	LD	APP	SIOUX FALLS, SD	BNPDTL20090825AVQ	157.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34  
Mask: Full Service  
Latitude: 43 36 12.00 N (NAD83)  
Longitude: 94 59 34.00 W  
Height AMSL: 532.0 m  
HAAT: 0.0 m  
Peak ERP: 3.10 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.10 kW	95.3 m	34.7 km
45.0	3.10	108.3	36.1

90.0	3.10	109.9	36.2
135.0	3.10	110.9	36.3
180.0	3.10	96.4	34.8
225.0	3.10	95.3	34.7
270.0	3.10	83.1	33.1
315.0	3.10	75.5	32.0

Database HAAT does not agree with computed HAAT  
 Database HAAT: 0 m    Computed HAAT: 97 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

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 BNPDTL20100510AJK CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K33MW-D	D33	LD	CP	SHERBURN, MN	BNPDTL20100510AJK	
Undesireds:	K51KT-D	D34	LD	APP	JACKSON, MN		12.9 km
	K33GX-D	D33+	LD	LIC	SPRINGFIELD, SD	BLANK0000022315	270.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2740.4	26,079	2740.4	26,079	2740.4	26,079	2712.1	25,974	1.03	0.40
Undesired		Total IX		Unique IX, before		Unique IX, after			
K51KT-D D34 LD APP	28.3	105				28.3	105		

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Interference to BLDTL20091204ADL LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K34JX-D	D34	LD	LIC	ST. JAMES, MN	BLDTL20091204ADL	
Undesireds:	K51KT-D	D34	LD	APP	JACKSON, MN		64.4 km
	KMZM-LD	D34	LD	LIC	Cedar Rapids, IA	BLANK0000004392	254.7
	KTCA-TV	D34	DT	LIC	ST. PAUL, MN	BLEDT20060802AAO	157.3
	K35KI-D	D35	LD	LIC	ST. JAMES, MN	BLDTL20120625AAV	0.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6336.7	68,551	6328.6	68,276	6322.6	68,032	6080.4	66,786	3.83	1.83
Undesired		Total IX		Unique IX, before		Unique IX, after			
K51KT-D D34 LD APP	242.1	1,246				242.1	1,246		
KTCA-TV D34 DT LIC	3.0	167		3.0	167	3.0	167		
K35KI-D D35 LD LIC	3.0	77		3.0	77	3.0	77		

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Interference to proposal scenario 1

8.93% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K51KT-D	D34	LD	APP	JACKSON, MN		
Undesireds:	K33MW-D	D33	LD	CP	SHERBURN, MN	BNPDTL20100510AJK	12.9 km
	KMZM-LD	D34	LD	LIC	Cedar Rapids, IA	BLANK0000004392	246.5
	K34JX-D	D34	LD	LIC	ST. JAMES, MN	BLDTL20091204ADL	64.4
	KQLD-LD	D34	LD	LIC	Omaha, NE	BLANK0000005061	332.0

Service area		Terrain-limited			IX-free		Percent IX
3859.6	43,725	3859.6	43,725	3174.9	39,822	17.74	8.93
Undesired			Total IX		Unique IX	Prcnt Unique IX	
K33MW-D D33 LD CP		39.6	166	7.1	33	0.18	0.08
K34JX-D D34 LD LIC		677.6	3,870	645.1	3,737	16.72	8.55