

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: STJ14d2kwTTP, Model: Longley-Rice

Start: 2019.08.22 09:45:44

Study created: 2019.08.22 09:45:44

Study build station data: LMS TV 2019-08-21

Proposal: K14KE-D D14 LD APP ST. JAMES, MN

Facility ID: 13840

Station data: User record

Record ID: 1192

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	KBBA-LD	D14	LD	LIC	CEDAR FALLS, IA	BLANK0000004383	254.7 km
No	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	366.8
No	KFXB-TV	D14	DT	LIC	DUBUQUE, IA	BLANK0000063821	366.8
Yes	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	214.1
No	K14LZ-D	D14	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ABZ	213.7
No	K14QM-D	D14	LD	CP	DULUTH, MN	BLANK0000068777	355.1
Yes	K14KD-D	D14	LD	LIC	FROST, MN	BLDTL20090730ACO	78.8
Yes	K14OL-D	D14	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACI	110.1
No	K33LN-D	D14	DC	APP	MINNEAPOLIS, MN	BDFCDTA20090721ACH	142.6
No	K14PU-D	D14	LD	CP	OAKLAND, MN	BNPDTL20100510AJW	130.7
No	K14RB-D	D14	LD	LIC	St. Paul, MN	BLANK0000058751	142.6
No	K14LF-D	D14	LD	LIC	WILLMAR, MN	BLDTT20100218ADS	122.9
No	K14PP-D	D14	LD	CP	FARGO, ND	BNPDTL20100902AAY	345.7
No	K14SY-D	D14	LD	CP	COLUMBUS, NE	BLANK0000071775	374.5
No	K14MI-D	D14	LD	LIC	NIOBRARA, NE	BLDTT20081119AMB	316.1
No	K14OJ-D	D14	LD	CP	ABERDEEN, SD	BNPDTL20100331AEX	349.1
No	K14QR-D	D14	LD	CP	SPENCER, SD	BNPDTL20100510AIG	240.6
No	K14OP-D	D14	LD	CP	SUMMIT, SD	BNPDTL20100505ADV	238.7

No	W14ER-D	D14	LD	CP	EAU CLAIRE, WI	BLANK0000072002	246.6
No	W14DW-D	D14	LD	CP	TOMAHAWK, WI	BNPDTL20100510AFF	415.7
No	KWJM-LD	D15	LD	LIC	Minneapolis, MN	BLANK0000004612	140.9
No	KWJM-LD	D15	LD	CP	Minneapolis, MN	BLANK00000061677	142.6
No	K47JE-D	D15	LD	CP	OLIVIA, MN	BLANK00000053426	75.8
Yes	K15LS-D	D15	LD	LIC	REDWOOD FALLS, MN	BLANK00000063424	57.4
No	K15IS-D	D15	LD	CP	WILLMAR, MN	BLANK00000068778	122.9
Yes	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	110.5
No	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK00000031829	260.4
No	WHLA-TV	D15	DT	LIC	LA CROSSE, WI	BLANK00000059546	260.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14  
 Mask: Stringent  
 Latitude: 44 6 25.00 N (NAD83)  
 Longitude: 94 35 45.00 W  
 Height AMSL: 615.0 m  
 HAAT: 0.0 m  
 Peak ERP: 2.00 kW  
 Antenna: Omnidirectional  
 Elev Pattn: Generic

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.00 kW	304.5 m	47.6 km
45.0	2.00	307.3	47.8
90.0	2.00	303.6	47.6
135.0	2.00	301.2	47.5
180.0	2.00	293.7	47.1
225.0	2.00	289.3	46.9
270.0	2.00	292.4	47.0
315.0	2.00	301.1	47.5

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 299 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: 473.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 247.0 degrees    Distance: 979.2 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%

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Interference to BLANK0000063868 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	
Undesireds:	K14KE-D	D14	LD	APP	ST. JAMES, MN		214.1 km
	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	147.4
	KFXL-TV	D15	DT	LIC	LINCOLN, NE	BLANK0000001045	196.4
	Service area	Terrain-limited			IX-free, before	IX-free, after	Percent New IX
50357.8	750,781	50046.7		745,691	49802.2	736,924	49786.2    736,776    0.03    0.02

Undesired		Total IX	Unique IX, before	Unique IX, after
K14KE-D D14 LD APP	22.1	182		16.0 148
KSMN D15 DT LIC	244.6	8,767	244.6 8,767	238.5 8,733

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Interference to BLDTL20090730ACO LIC scenario 1  
 \*\*IX: 12.23% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14KD-D	D14	LD	LIC	FROST, MN	BLDTL20090730ACO	
Undesireds:	K14KE-D	D14	LD	APP	ST. JAMES, MN		78.8 km
	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	293.8
	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	216.7
	K14PU-D	D14	LD	CP	OAKLAND, MN	BNPDTL20100510AJW	68.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
3730.8 21,686	3730.8 21,686	3713.7 21,608	3281.2 18,966	11.65 12.23

Undesired		Total IX	Unique IX, before	Unique IX, after
K14KE-D D14 LD APP	432.5	2,642		432.5 2,642
KTIV D14 DT LIC	15.1	63	9.1 26	9.1 26
K14PU-D D14 LD CP	8.1	52	2.0 15	2.0 15

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Interference to BLDTL20110824ACI LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14OL-D	D14	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACI	
Undesireds:	K14KE-D	D14	LD	APP	ST. JAMES, MN		110.1 km
	K14LF-D	D14	LD	LIC	WILLMAR, MN	BLDTT20100218ADS	58.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
3566.3 24,883	3565.4 24,883	3330.1 24,328	3327.1 24,323	0.09 0.02

Undesired		Total IX	Unique IX, before	Unique IX, after
K14KE-D D14 LD APP	3.0	5		3.0 5

K14LF-D D14 LD LIC	235.2	555	235.2	555	235.2	555
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Interference to BLANK0000063424 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K15LS-D	D15	LD	LIC	REDWOOD FALLS, MN	BLANK0000063424	
Undesireds:	K14KE-D	D14	LD	APP	ST. JAMES, MN		57.4 km
	KWJM-LD	D15	LD	LIC	Minneapolis, MN	BLANK0000004612	154.6
	K47JE-D	D15	LD	CP	OLIVIA, MN	BLANK0000053426	24.4
	K15IS-D	D15	LD	CP	WILLMAR, MN	BLANK0000068778	68.8
	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	106.5
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	298.6
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	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	1901.6	13,661	1899.6	13,659	1019.4	11,430	0.10 0.00
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Undesired			Total IX		Unique IX, before	Unique IX, after	
K14KE-D D14 LD APP		1.0	0		1.0	0	
K47JE-D D15 LD CP		140.9	494		49.9	178	
K15IS-D D15 LD CP		2.0	129		0.0	0	
KSMN D15 DT LIC		830.3	2,051		739.4	1,735	

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Interference to BLEDT20051219AGX LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	
Undesireds:	K14KE-D	D14	LD	APP	ST. JAMES, MN		110.5 km
	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	147.4
	KFXL-TV	D15	DT	LIC	LINCOLN, NE	BLANK0000001045	343.7
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	367.2
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	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	20299.9	320,421	20288.9	320,403	20204.8	318,921	1.16 0.37

Undesired		Total IX	Unique IX, before	Unique IX, after
K14KE-D D14 LD APP	235.0	1,192		235.0 1,192
KTIV D14 DT LIC	84.1	290	84.1 290	84.1 290

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Interference to BLEDT20051219AGX LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	
Undesireds:	K14KE-D	D14	LD	APP	ST. JAMES, MN		110.5 km
	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	147.4
	KFXL-TV	D15	DT	CP	LINCOLN, NE	BLANK0000035803	356.6
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	367.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20299.9	320,421	20288.9	320,403	20203.8	320,113	19968.8 318,921	1.16 0.37

Undesired		Total IX	Unique IX, before	Unique IX, after
K14KE-D D14 LD APP	235.0	1,192		235.0 1,192
KTIV D14 DT LIC	84.1	290	84.1 290	84.1 290
KFXL-TV D15 DT CP	1.0	0	1.0 0	1.0 0

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Interference to proposal scenario 1

3.09% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14KE-D	D14	LD	APP	ST. JAMES, MN		
Undesireds:	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	214.1 km
	K14KD-D	D14	LD	LIC	FROST, MN	BLDTL20090730ACO	78.8
	K14OL-D	D14	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACI	110.1
	KWJM-LD	D15	LD	LIC	Minneapolis, MN	BLANK0000004612	140.9
	K15LS-D	D15	LD	LIC	REDWOOD FALLS, MN	BLANK0000063424	57.4
Service area		Terrain-limited		IX-free		Percent IX	
7044.0	89,023	7039.0	86,932	7004.6	84,250	0.49 3.09	

Undesired		Total IX		Unique IX	Prcnt Unique IX	
KTIV D14 DT LIC	5.0	2,611	5.0	2,611	0.07	3.00
K14KD-D D14 LD LIC	25.3	69	25.3	69	0.36	0.08
K14OL-D D14 LD LIC	2.0	2	0.0	0	0.00	0.00
K15LS-D D15 LD LIC	4.0	2	2.0	0	0.03	0.00