

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Jackson31dP, Model: Longley-Rice
Start: 2018.04.19 18:03:14

Study created: 2018.04.19 17:34:34

Study build station data: LMS TV 2018-04-12 (6)

Proposal: K50KL-D D31 LD APP JACKSON, MN
Facility ID: 5899
Station data: User record
Record ID: 453
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	KPTH	D30	DT	CP	SIOUX CITY, IA	BLANK0000033734	150.7 km
No	KCAU-TV	D30	LD	APP	SIOUX CITY, IA	BLCDT20090903AAI	168.3
No	K30NI-D	D30	LD	CP	ALBERT LEO, MN	BNPDTL20100510AJS	127.0
No	K30KQ-D	D30	LD	LIC	JACKSON, MN	BLDTL20130321ACB	0.0
No	KSTC-TV	D30	DT	CP	MINNEAPOLIS, MN	BLANK0000034690	219.1
No	K30FN-D	D30	LD	LIC	ST. JAMES, MN	BLDTL20100416AAI	64.4
No	K30FZ-D	D30	LD	LIC	WILLMAR, MN	BLDTT20141107AAY	173.8
No	K30LV-D	D30	LD	CP	WENTWORTH, SD	BNPDTL20100505AEL	158.6
No	K39LW-D	D31	LD	APP	LANSING, IA	BLANK0000035575	305.5
No	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	455.9
No	K31MH-D	D31	LD	CP	BARNSVILLE, MN	BNPDTL20100505ALA	351.0
No	K31EF-D	D31	LD	LIC	FROST, MN	BLDTT20090730ACQ	85.6
No	WRPT	D31	DT	LIC	HIBBING, MN	BLDTT20090603AAY	448.9
No	WDMI-LD	D31	LD	LIC	MINNEAPOLIS, MN	BLDTL20100809CIU	217.7
No	K31LN-D	D31	LD	CP	ROCHESTER, MN	BNPDTL20100309AAW	210.9
No	K31LP-D	D31	LD	CP	SAINT CLOUD, MN	BLANK0000013924	227.9
Yes	K31KV-D	D31	LD	LIC	ST. JAMES, MN	BLDTL20120625AAY	64.3
No	KLKN	D31	LD	LIC	LINCOLN, NE	BLCDT20090903AAK	344.0

No	KPTP-LD	D31	LD	LIC	NORFOLK, NE	BLDTL20120106AAG	260.3
No	KBLI-LD	D31	LD	CP	Omaha, NE	BLANK0000004682	299.1
No	KBLI-LD	D31	LD	LIC	Omaha, NE	BLANK0000004413	332.0
No	KMTV-TV	D31	DT	CP	OMAHA, NE	BLANK0000026767	269.0
No	K31KU-D	D31	LD	CP	RAPID CITY, SD	BPDTL20140613ABS	153.4
No	K31KU-D	D31	LD	LIC	RAPID CITY, SD	BLDTL20140228ABO	153.0
No	K31GH-D	D31-	LD	LIC	HAYWARD, WI	BLANK0000016624	388.4
Yes	KMEG	D32	DT	CP	SIOUX CITY, IA	BLANK0000034618	150.7
No	K32LB-D	D32	LD	CP	ALBERT LEO, MN	BNPDTL20100510AJT	127.0
No	K32DR-D	D32	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACY	141.5
No	WCCO-TV	D32	DT	LIC	MINNEAPOLIS, MN	BMLCDT20120907ABQ	219.1
No	K32GX-D	D32	LD	LIC	ST. JAMES, MN	BLDTL20100113ADB	64.4
No	K32JG-D	D32	LD	CP	RAPID CITY, SD	BLANK0000001107	153.4
No	K32JG-D	D32	LD	LIC	RAPID CITY, SD	BLDTL20140228ABP	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: D31
 Mask: Stringent
 Latitude: 43 36 12.00 N (NAD83)
 Longitude: 94 59 34.00 W
 Height AMSL: 526.0 m
 HAAT: 0.0 m
 Peak ERP: 3.10 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.10 kW	89.3 m	34.3 km
45.0	3.10	102.3	35.8
90.0	3.10	103.9	36.0
135.0	3.10	104.9	36.1
180.0	3.10	90.4	34.4

225.0	3.10	89.3	34.2
270.0	3.10	77.1	32.6
315.0	3.10	69.5	31.5

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

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 BLDTL20120625AAY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K31KV-D	D31	LD	LIC	ST. JAMES, MN	BLDTL20120625AAY	
Undesireds:	K50KL-D	D31	LD	APP	JACKSON, MN		64.3 km
	K30FN-D	D30	LD	LIC	ST. JAMES, MN	BLDTL20100416AAI	0.3
	K31KU-D	D31	LD	CP	RAPID CITY, SD	BPDTL20140613ABS	187.6
	K31GH-D	D31-	LD	LIC	HAYWARD, WI	BLANK00000016624	327.2
	K32GX-D	D32	LD	LIC	ST. JAMES, MN	BLDTL20100113ADB	0.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4272.1 49,456	4268.1 49,428	2861.0 34,975	2859.9 34,972	0.04 0.01
Undesired	Total IX	Unique IX, before	Unique IX, after	
K50KL-D D31 LD APP	83.0 333	1.0 3		
K30FN-D D30 LD LIC	1407.1 14,453	1392.0 12,242	1310.0 11,912	
K32GX-D D32 LD LIC	15.1 2,211	0.0 0	0.0 0	

Interference to BLANK0000034618 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KMEG	D32	DT	CP	SIOUX CITY, IA	BLANK0000034618	
Undesireds: K50KL-D	D31	LD	APP	JACKSON, MN		150.7 km
KMTV-TV	D31	DT	CP	OMAHA, NE	BLANK0000026767	143.2
WCCO-TV	D32	DT	LIC	MINNEAPOLIS, MN	BMLCDT20120907ABQ	369.8
KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	415.5
KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	151.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47061.4 709,132	46730.5 703,652	45942.8 696,677	45931.8 696,432	0.02 0.04
Undesired	Total IX	Unique IX, before	Unique IX, after	
K50KL-D D31 LD APP	26.9 451	11.0 245		
KMTV-TV D31 DT CP	757.8 6,509	753.7 6,503	753.7 6,503	
WCCO-TV D32 DT LIC	29.0 466	29.0 466	13.0 260	
KSMO-TV D32 DT CP	2.0 6	1.0 0	1.0 0	
KBIN-TV D33 DT LIC	4.0 6	0.0 0	0.0 0	

Interference to BLANK0000034618 CP scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KMEG	D32	DT	CP	SIOUX CITY, IA	BLANK0000034618	
Undesireds: K50KL-D	D31	LD	APP	JACKSON, MN		150.7 km

KMTV-TV	D31	DT	BL	OMAHA, NE	DTVBL35190	143.1
WCCO-TV	D32	DT	LIC	MINNEAPOLIS, MN	BMLCDT20120907ABQ	369.8
KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	415.5
KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	151.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
47061.4	709,132	46730.5	703,652	45942.7	696,610	45931.8	696,365	0.02 0.04

Undesired		Total IX		Unique IX, before		Unique IX, after
K50KL-D D31 LD APP	26.9	451		11.0	245	
KMTV-TV D31 DT BL	757.8	6,576	753.8	6,570	753.8 6,570	
WCCO-TV D32 DT LIC	29.0	466	29.0	466	13.0 260	
KSMO-TV D32 DT CP	2.0	6	1.0	0	1.0 0	
KBIN-TV D33 DT LIC	4.0	6	0.0	0	0.0 0	

Interference to BLANK0000034618 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMEG	D32	DT	CP	SIOUX CITY, IA	BLANK0000034618	
Undesireds:	K50KL-D	D31	LD	APP	JACKSON, MN		150.7 km
	KMTV-TV	D31	DT	CP	OMAHA, NE	BLANK0000026767	143.2
	WCCO-TV	D32	DT	LIC	MINNEAPOLIS, MN	BMLCDT20120907ABQ	369.8
	KSMO-TV	D32	DT	BL	KANSAS CITY, MO	DTVBL33336	415.5
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	151.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
47061.4	709,132	46730.5	703,652	45942.8	696,677	45931.8	696,432	0.02 0.04

Undesired		Total IX		Unique IX, before		Unique IX, after
K50KL-D D31 LD APP	26.9	451		11.0	245	
KMTV-TV D31 DT CP	757.8	6,509	753.7	6,503	753.7 6,503	
WCCO-TV D32 DT LIC	29.0	466	29.0	466	13.0 260	
KSMO-TV D32 DT BL	2.0	6	1.0	0	1.0 0	
KBIN-TV D33 DT LIC	4.0	6	0.0	0	0.0 0	

Interference to BLANK0000034618 CP scenario 4

Desired:	Call KMEG	Chan D32	Svc DT	Status CP	City, State SIOUX CITY, IA	File Number BLANK0000034618	Distance
Undesireds:	K50KL-D	D31	LD	APP	JACKSON, MN		150.7 km
	KMTV-TV	D31	DT	BL	OMAHA, NE	DTVBL35190	143.1
	WCCO-TV	D32	DT	LIC	MINNEAPOLIS, MN	BMLCDT20120907ABQ	369.8
	KSMO-TV	D32	DT	BL	KANSAS CITY, MO	DTVBL33336	415.5
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	151.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
47061.4		709,132		46730.5		703,652	45942.7
						696,610	45931.8
						696,365	0.02
							0.04
Undesired		Total IX		Unique IX, before		Unique IX, after	
K50KL-D	D31 LD APP	26.9		451		11.0	245
KMTV-TV	D31 DT BL	757.8		6,576		753.8	6,570
WCCO-TV	D32 DT LIC	29.0		466		13.0	260
KSMO-TV	D32 DT BL	2.0		6		1.0	0
KBIN-TV	D33 DT LIC	4.0		6		0.0	0

Interference to proposal scenario 1
2.49% interference received

Desired:	Call K50KL-D	Chan D31	Svc LD	Status APP	City, State JACKSON, MN	File Number	Distance
Undesireds:	K30KQ-D	D30	LD	LIC	JACKSON, MN	BLDTL20130321ACB	0.0 km
	K30FN-D	D30	LD	LIC	ST. JAMES, MN	BLDTL20100416AAI	64.4
	K31EF-D	D31	LD	LIC	FROST, MN	BLDTT20090730ACQ	85.6
	K31KV-D	D31	LD	LIC	ST. JAMES, MN	BLDTL20120625AAY	64.3
	KBLI-LD	D31	LD	CP	Omaha, NE	BLANK0000004682	299.1
	K31KU-D	D31	LD	CP	RAPID CITY, SD	BPDTL20140613ABS	153.4
Service area		Terrain-limited		IX-free		Percent IX	
3771.1		43,385		3771.1		43,385	3449.2
						42,303	8.54
							2.49

Undesired		Total	IX		Unique	IX	Prcnt	Unique	IX
K30KQ-D D30 LD LIC	1.0	0	1.0	0	0.03	0.00			
K30FN-D D30 LD LIC	3.0	0	0.0	0	0.00	0.00			
K31EF-D D31 LD LIC	2.0	0	1.0	0	0.03	0.00			
K31KV-D D31 LD LIC	319.9	1,082	315.8	1,082	8.38	2.49			