

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Granite31dSP, Model: Longley-Rice
Start: 2018.04.23 10:14:54

Study created: 2018.04.23 10:09:22

Study build station data: LMS TV 2018-04-19

Proposal: K40MC-D D31 LD APP GRANITE FALLS, MN
Facility ID: 43005
Station data: User record
Record ID: 479
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	K16BQ	N16+	TX	LIC	BRAINERD, MN	BLTT19880608IT	201.4 km
No	KPTH	D30	DT	CP	SIOUX CITY, IA	BLANK0000033734	251.9
No	K30AF-D	D30	LD	LIC	ALEXANDRIA, MN	BLDTL20120313ABL	125.8
No	K30KQ-D	D30	LD	LIC	JACKSON, MN	BLDTL20130321ACB	141.5
No	KSTC-TV	D30	DT	CP	MINNEAPOLIS, MN	BLANK0000034690	194.2
No	K30FN-D	D30	LD	LIC	ST. JAMES, MN	BLDTL20100416AAI	110.1
Yes	K30FZ-D	D30	LD	LIC	WILLMAR, MN	BLDTT20141107AAY	58.3
No	K30LU-D	D30	LD	CP	WATERTOWN, SD	BNPDTL20100505AEA	116.0
No	K30LV-D	D30	LD	CP	WENTWORTH, SD	BNPDTL20100505AEL	142.1
No	KMKI-LD	D31	LD	APP	Cedar Rapids, IA	BLANK0000052698	367.3
No	K39LW-D	D31	LD	APP	LANSING, IA	BLANK0000035575	383.8
No	K31MH-D	D31	LD	CP	BARNSVILLE, MN	BNPDTL20100505ALA	209.7
No	K31EF-D	D31	LD	LIC	FROST, MN	BLDTT20090730ACQ	188.8
No	WRPT	D31	DT	LIC	HIBBING, MN	BLEDT20090603AAY	350.7
No	WDMI-LD	D31	LD	LIC	MINNEAPOLIS, MN	BLDTL20100809CIU	191.4
No	K31LN-D	D31	LD	CP	ROCHESTER, MN	BNPDTL20100309AAW	267.1
No	K31LP-D	D31	LD	CP	SAINT CLOUD, MN	BLANK0000013924	120.5
No	K31KV-D	D31	LD	LIC	ST. JAMES, MN	BLDTL20120625AAY	109.8

No	KFYR-TV	D31	DT	LIC	BISMARCK, ND	BLCDT20071108ADF	452.3
No	K31MP-D	D31	LD	CP	GRAND FORKS, ND	BNPDTL20100422ACX	359.5
No	K31MI-D	D31	LD	CP	JAMESTOWN, ND	BNPDTL20100505ALN	348.0
No	KPTP-LD	D31	LD	LIC	NORFOLK, NE	BLDTL20120106AAG	340.2
No	KMTV-TV	D31	DT	CP	OMAHA, NE	BLANK0000026767	390.5
No	K31KU-D	D31	LD	CP	RAPID CITY, SD	BPDTL20140613ABS	156.7
No	K31KU-D	D31	LD	LIC	RAPID CITY, SD	BLDTL20140228ABO	156.4
No	K31GH-D	D31-	LD	LIC	HAYWARD, WI	BLANK0000016624	351.8
No	K31GH-D	N31-	TX	LIC	HAYWARD, WI	BLTTL20020729AAS	351.8
No	KMEG	D32	DT	CP	SIOUX CITY, IA	BLANK0000034618	251.9
No	K32EB-D	D32	LD	LIC	ALEXANDRIA, MN	BLDTL20120313ABP	125.8
Yes	K32DR-D	D32	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACY	0.0
No	WCCO-TV	D32	DT	LIC	MINNEAPOLIS, MN	BMLCDT20120907ABQ	194.2
No	K32GX-D	D32	LD	LIC	ST. JAMES, MN	BLDTL20100113ADB	110.1
No	K32JG-D	D32	LD	CP	RAPID CITY, SD	BLANK0000001107	156.7
No	K32JG-D	D32	LD	LIC	RAPID CITY, SD	BLDTL20140228ABP	156.4
No	K32KJ-D	D32	LD	CP	SUMMIT, SD	BNPDTL20100505ADX	131.3
No	K32DK-D	D32	LD	LIC	WATERTOWN, SD	BLDTL20131213AAT	120.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
 Mask: Simple
 Latitude: 44 48 17.00 N (NAD83)
 Longitude: 95 34 50.00 W
 Height AMSL: 404.0 m
 HAAT: 0.0 m
 Peak ERP: 1.80 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.80 kW	93.3 m	32.0 km

45.0	1.80	87.5	31.2
90.0	1.80	90.6	31.6
135.0	1.80	101.0	32.9
180.0	1.80	85.0	30.9
225.0	1.80	83.3	30.7
270.0	1.80	83.7	30.8
315.0	1.80	90.9	31.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 89 m

Distance to Canadian border: 434.5 km

Distance to Mexican border: 1728.3 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 209.2 degrees Distance: 489.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 240.1 degrees Distance: 943.7 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 BLDTT20141107AAY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K30FZ-D	D30	LD	LIC	WILLMAR, MN	BLDTT20141107AAY	
Undesireds:	K40MC-D	D31	LD	APP	GRANITE FALLS, MN		58.3 km

K29JW-D	D29	LD	LIC	GRANITE FALLS, MN	BLDTT20110824ACG	58.3
K30AF-D	D30	LD	LIC	ALEXANDRIA, MN	BLDTL20120313ABL	90.9
KSTC-TV	D30	DT	CP	MINNEAPOLIS, MN	BLANK0000034690	149.8
K30FN-D	D30	LD	LIC	ST. JAMES, MN	BLDTL20100416AAI	122.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6785.2 80,850	6781.2 80,840	6345.6 69,576	6345.6 69,576	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K40MC-D D31 LD APP 1.0	3	0.0 0	
K29JW-D D29 LD LIC 1.0	3	1.0 3	
K30AF-D D30 LD LIC 8.0	32	4.0 21	
KSTC-TV D30 DT CP 392.2	10,236	388.2 10,225	
K30FN-D D30 LD LIC 38.3	1,004	38.3 1,004	

Interference to BLDTL20110824ACY LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K32DR-D	D32	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACY	
Undesireds: K40MC-D	D31	LD	APP	GRANITE FALLS, MN		0.0 km
K32JG-D	D32	LD	CP	RAPID CITY, SD	BLANK0000001107	156.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
3138.2 24,036	3136.2 24,036	3136.2 24,036	3135.2 24,034	0.03 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
K40MC-D D31 LD APP 1.0	2	1.0 2	

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K40MC-D	D31	LD	APP	GRANITE FALLS, MN		
Undesireds: K30FZ-D	D30	LD	LIC	WILLMAR, MN	BLDTT20141107AAY	58.3 km
K31KU-D	D31	LD	CP	RAPID CITY, SD	BPDTL20140613ABS	156.7

Service area	Terrain-limited		IX-free	Percent IX
3158.4 24,067	3156.4 24,067	3144.2	24,016	0.39 0.21
Undesired	Total IX		Unique IX	Prcnt Unique IX
K30FZ-D D30 LD LIC	12.2 51	12.2	51	0.39 0.21