

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: Duluth30dlkwincDietTUAat250fA2, Model: Longley-Rice  
Start: 2022.07.11 10:38:59

Study created: 2022.07.11 10:38:59

Study build station data: LMS TV 2022-06-26

Proposal: K30QX-D D30 LD LIC DULUTH, MN  
Facility ID: 185811  
Station data: User record  
Record ID: 2204  
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	K15GT-D	N15-	TX	LIC	HIBBING, MN	BLTT20040909ABE	91.5 km
No	K16BQ-D	N16+	TX	LIC	BRAINERD, MN	BLTT19880608IT	164.5
No	K29EB-D	D29-	LD	LIC	GRAND RAPIDS, MN	BLANK00000016819	114.6
No	K29EB-D	N29-	TX	LIC	GRAND RAPIDS, MN	BLTT20021011AAW	114.6
No	WFTC	D29	DT	LIC	MINNEAPOLIS, MN	BLCDT20100809CJF	207.0
No	K30AF-D	D30	LD	LIC	ALEXANDRIA, MN	BLDTL20120313ABL	272.2
No	KSTC-TV	D30	DT	LIC	MINNEAPOLIS, MN	BLANK00000080959	207.0
No	KSTC-TV	D30	DT	CP	MINNEAPOLIS, MN	BLANK00000158230	207.0
No	K30QY-D	D30	LD	CP	OAKLAND, MN	BLANK00000153906	355.5
No	K30RA-D	D30	LD	LIC	RACINE, MN	BLANK00000178831	319.7
No	K30PA-D	D30	LD	LIC	ROSEAU, MN	BLANK00000066874	356.3
No	K30FN-D	D30	LD	LIC	ST. JAMES, MN	BLANK00000124535	354.7
No	K30FZ-D	D30	LD	LIC	WILLMAR, MN	BLDTT20141107AAY	288.7
No	K30LR-D	D30	LD	LIC	GRAND FORKS, ND	BLANK00000014005	392.8
No	KXJB-LD	D30	LD	LIC	HORACE, ND	BLANK00000013936	356.1
No	WEAU	D30	LD	LIC	EAU CLAIRE, WI	BLANK00000124038	336.5
No	W30EN-D	D30	LD	CP	EAU CLAIRE, WI	BLANK00000071871	231.0
No	W30DZ-D	D30	LD	LIC	FENCE, WI	BLANK00000060424	306.9
No	W30BU	D30+	LD	CP	GREEN BAY, WI	BLANK00000072177	419.7
No	WRPT	D31	DT	LIC	HIBBING, MN	BL EDT20090603AAY	91.5
No	WDMI-LD	D31	LD	LIC	MINNEAPOLIS, MN	BLDTL20100809CIU	207.5

No	KARE	D31	DT	LIC	MINNEAPOLIS, MN	BLANK00000165989	207.0
No	K31GH-D	D31-	LD	LIC	HAYWARD, WI	BLANK00000016624	103.3
No	K31GH-D	N31-	TX	LIC	HAYWARD, WI	BLTTL20020729AAS	103.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30  
Mask: Full Service  
Latitude: 46 47 7.00 N (NAD83)  
Longitude: 92 7 16.00 W  
Height AMSL: 385.8 m  
HAAT: 0.0 m  
Peak ERP: 1.00 kW  
Antenna: DIE-TUA (ID 120649) 250.0 deg  
Elev Pattn: Generic

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.005 kW	-36.4 m	4.7 km
45.0	0.002	76.6	6.3
90.0	0.002	202.8	10.0
135.0	0.005	202.4	12.0
180.0	0.009	189.3	13.4
225.0	0.601	63.3	22.4
270.0	0.726	-15.7	16.0
315.0	0.022	-43.7	6.8

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 80 m

Proposal 25.32 dBu contour does not cross Canadian border  
Distance to Canadian border: 145.9 km

Distance to Mexican border: 2053.7 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 131.4 degrees Distance: 672.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 239.8 degrees Distance: 1286.1 km

Study cell size: 1.00 km

Profile point spacing: 0.10 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 proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K30QX-D	D30	LD	LIC	DULUTH, MN		
Undesireds:	KSTC-TV	D30	DT	LIC	MINNEAPOLIS, MN	BLANK0000080959	207.0 km
	K31GH-D	D31-	LD	LIC	HAYWARD, WI	BLANK0000016624	103.3
Service area		Terrain-limited		IX-free		Percent IX	
567.3	96,882	544.1		96,486	531.1	96,044	2.40 0.46
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KSTC-TV	D30 DT LIC	13.1		442	13.1	442	2.40 0.46

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Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K30QX-D	D30	LD	LIC	DULUTH, MN		
Undesireds:	KSTC-TV	D30	DT	CP	MINNEAPOLIS, MN	BLANK00000158230	207.0 km
	K31GH-D	D31-	LD	LIC	HAYWARD, WI	BLANK0000016624	103.3
Service area		Terrain-limited		IX-free		Percent IX	

567.3	96,882	544.1	96,486	531.1	96,044	2.40	0.46
Undesired			Total IX		Unique IX	Prcnt Unique IX	
KSTC-TV D30 DT CP		13.1	442	13.1	442	2.40	0.46