

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Hewitt36d15kwELTI90T, Model: Longley-Rice

Start: 2021.08.04 11:02:26

Study created: 2021.08.04 11:02:26

Study build station data: LMS TV 2021-08-03

Proposal: K45MJ-D D36 LD APP HEWITT, MN

Facility ID: 186033

Station data: User record

Record ID: 261

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	K32FY-D	N32-	TX	LIC	PARK RAPIDS, MN	BLTT20020429AAS	107.1 km
No	K35LK-D	D35	LD	CP	ASHBY, MN	BNPDTL20100505AKT	33.3
No	K35DK-D	D35	LD	LIC	GRANITE FALLS, MN	BLDTL20110824ACZ	173.0
No	KSTP-TV	D35	DT	CP	ST. PAUL, MN	BLANK0000036053	268.5
No	KSTP-TV	D35	DT	LIC	ST. PAUL, MN	BLCDT20090622ABR	268.5
No	K35KH-D	D35	LD	LIC	WALKER, MN	BLDTT20130719BZI	143.8
No	K48AH-D	D35	LD	LIC	WILLMAR, MN	BLANK0000060745	151.8
No	KFGX-LD	D35	LD	LIC	FARGO, ND	BLANK0000122213	77.5
No	KFGX-LD	N35z	TX	LIC	FARGO, ND	BLTT20070907AEX	62.8
No	K35KR-D	D35	LD	CP	HATTON, ND	BNPDTL20100505ADH	166.3
No	K35KS-D	D35	LD	CP	SUMMIT, SD	BNPDTL20100505ADY	132.7
No	K36MF-D	D36	LD	CP	ALBANY, MN	BNPDTL20100505AKK	139.1
Yes	K36KH-D	D36	LD	LIC	ALEXANDRIA, MN	BLDTT20100819ABB	65.7
No	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	408.7
No	K36OK-D	D36	LD	LIC	GRANITE FALLS, MN	BLANK0000063067	173.0
No	K36LA-D	D36	LD	LIC	KABETOGAMA, MN	BLDTT20110719ABK	324.6
No	K36KZ-D	D36	LD	LIC	MAX, MN	BLDTT20111107ALF	209.2
No	K36OA-D	D36	LD	LIC	RED LAKE, MN	BLANK0000068188	187.2

No	K36KW-D	D36	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAT	215.4
No	KMQV-LD	D36	LD	LIC	ROCHESTER, MN	BLANK0000080612	265.2
No	K36LW-D	D36	LD	LIC	WILLIAMS, MN	BLDTT20120601AII	295.0
No	K50HZ-D	D36	LD	LIC	WILLMAR, MN	BLANK0000060755	151.8
No	K36LN-D	D36	LD	CP	ARGUSVILLE, ND	BNPDTL20100504ANI	105.3
No	K36MX-D	D36	LD	CP	BISMARCK, ND	BNPDTL20100609AHB	363.2
No	KVLY-TV	D36	DT	LIC	FARGO, ND	BLANK0000078038	145.6
No	KVLY-TV	D36	DT	CP	FARGO, ND	BLANK0000127678	145.6
No	K36LK-D	D36	LD	CP	TAPPEN, ND	BNPDTL20100505ALX	266.6
No	K39CZ-D	D36	LD	LIC	ABERDEEN, SD	BLANK0000055166	210.4
No	K36NC-D	D36	LD	CP	RELIANCE, SD	BNPDTL20100510AIW	379.4
No	KWSD	D36	DT	LIC	SIOUX FALLS, SD	BLCDDT20100201AFD	315.1
No	KWSD	D36	DT	CP	SIOUX FALLS, SD	BLANK0000035767	315.1
No	WLEF-TV	D36	DT	CP	PARK FALLS, WI	BLANK0000035675	450.1
No	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	450.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36
Mask: Stringent
Latitude: 46 19 10.50 N (NAD83)
Longitude: 96 5 34.00 W
Height AMSL: 401.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 90.0 deg
Elev Pattn: Generic

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.013 kW	13.2 m	5.8 km
45.0	3.22	-9.2	22.4
90.0	15.0	0.6	29.4
135.0	3.02	9.2	22.1

180.0	0.012	44.5	6.8
225.0	0.114	59.7	13.8
270.0	0.037	56.5	10.3
315.0	0.081	16.0	9.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 24 m

Proposal 25.86 dBu contour does not cross Canadian border
Distance to Canadian border: 289.4 km

Distance to Mexican border: 1844.7 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 198.2 degrees Distance: 628.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 230.4 degrees Distance: 1007.1 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 BLDTT20100819ABB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K36KH-D	D36	LD	LIC	ALEXANDRIA, MN	BLDTT20100819ABB	
Undesireds:	K45MJ-D	D36	LD	APP	HEWITT, MN		65.7 km
	K35LK-D	D35	LD	CP	ASHBY, MN	BNPDTL20100505AKT	35.4
	KVLY-TV	D36	DT	LIC	FARGO, ND	BLANK0000078038	210.4

KWSD	D36	DT	LIC	SIOUX FALLS, SD	BLCDT20100201AFD	284.1			
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
2616.6	40,701	2611.5	40,699	2578.0	40,623	2572.0	40,608	0.24	0.04
Undesired		Total IX		Unique IX, before		Unique IX, after			
K45MJ-D	D36 LD APP	18.3	34			6.1	15		
K35LK-D	D35 LD CP	29.5	76	27.4	76	20.3	57		
KVLY-TV	D36 DT LIC	6.1	0	4.0	0	1.0	0		

Interference to BLDDT20100819ABB LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired: K36KH-D	D36	LD	LIC	ALEXANDRIA, MN	BLDDT20100819ABB				
Undesireds: K45MJ-D	D36	LD	APP	HEWITT, MN		65.7 km			
K35LK-D	D35	LD	CP	ASHBY, MN	BNPDTL20100505AKT	35.4			
KVLY-TV	D36	DT	CP	FARGO, ND	BLANK0000127678	210.4			
KWSD	D36	DT	LIC	SIOUX FALLS, SD	BLCDT20100201AFD	284.1			
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
2616.6	40,701	2611.5	40,699	2576.0	40,611	2571.0	40,608	0.20	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
K45MJ-D	D36 LD APP	18.3	34			5.1	3
K35LK-D	D35 LD CP	29.5	76	22.3	76	19.3	57
KVLY-TV	D36 DT CP	13.2	12	6.1	12	2.0	0

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K45MJ-D	D36	LD	APP	HEWITT, MN		
Undesireds: KFGX-LD	D35	LD	LIC	FARGO, ND	BLANK0000122213	77.5 km
K36KH-D	D36	LD	LIC	ALEXANDRIA, MN	BLDDT20100819ABB	65.7
K36LN-D	D36	LD	CP	ARGUSVILLE, ND	BNPDTL20100504ANI	105.3

KVLY-TV D36 DT LIC FARGO, ND

BLANK0000078038

145.6

Service area		Terrain-limited		IX-free		Percent IX	
901.1	21,359	898.1	21,359	852.5	20,991	5.07	1.72

Undesired	Total IX	Unique IX	Prcnt Unique IX
K36KH-D D36 LD LIC 17.2 258 9.1 203 1.02 0.95			
K36LN-D D36 LD CP 1.0 0 0.0 0 0.00 0.00			
KVLY-TV D36 DT LIC 36.4 165 28.3 110 3.16 0.52			

Interference to proposal scenario 2
5.71% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K45MJ-D	D36	LD	APP	HEWITT, MN		
Undesireds:	KFGX-LD	D35	LD	LIC	FARGO, ND	BLANK0000122213	77.5 km
	K36KH-D	D36	LD	LIC	ALEXANDRIA, MN	BLDTT20100819ABB	65.7
	K36LN-D	D36	LD	CP	ARGUSVILLE, ND	BNPDTL20100504ANI	105.3
	KVLY-TV	D36	DT	CP	FARGO, ND	BLANK0000127678	145.6

Service area		Terrain-limited		IX-free		Percent IX	
901.1	21,359	898.1	21,359	808.0	20,140	10.03	5.71

Undesired	Total IX	Unique IX	Prcnt Unique IX
K36KH-D D36 LD LIC 17.2 258 3.0 85 0.34 0.40			
K36LN-D D36 LD CP 1.0 0 0.0 0 0.00 0.00			
KVLY-TV D36 DT CP 87.0 1,134 72.9 961 8.11 4.50			