

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Merrill35d15kwTUA125T, Model: Longley-Rice

Start: 2021.07.15 11:33:05

Study created: 2021.07.15 11:33:05

Study build station data: LMS TV 2021-07-15

Proposal: W43DJ-D D35 LD APP MERRILL, WI

Facility ID: 186323

Station data: User record

Record ID: 566

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	K18NQ-D	N32-	TX	LIC	RHINELANDER, WI	BLTT20050929AGL	66.3 km
No	W34FC-D	D34	LD	LIC	LA CROSSE, WI	BLANK0000058890	213.0
No	WWRS-TV	D34	DT	LIC	MAYVILLE, WI	BLANK0000087342	213.9
No	W34EO-D	D34	LD	CP	WAUSAU, WI	BLANK0000008337	68.3
No	K35PA-D	D35	LD	CP	MASON CITY, IA	BLANK0000071817	387.0
No	KRIN	D35	DT	LIC	WATERLOO, IA	BLEDT20050218ABQ	371.9
No	WGBO-DT	D35	DT	LIC	JOLIET, IL	BLANK0000124507	400.0
No	W35DY-D	D35-	LD	LIC	STERLING-DIXON, IL	BLANK0000121374	330.6
No	WOLP-CD	D35	DC	LIC	GRAND RAPIDS, MI	BLANK0000141794	428.2
No	WLUC-TV	D35	DT	CP	MARQUETTE, MI	BLANK0000036029	181.2
No	WLUC-TV	D35	DT	LIC	MARQUETTE, MI	BLCDT20040202ALY	181.2
No	WPBN-TV	D35	DT	LIC	TRAVERSE CITY, MI	BLANK0000087956	355.9
No	K35JN-D	D35	LD	CP	DULUTH, MN	BLANK0000149960	264.3
No	K35JN-D	D35	LD	LIC	DULUTH, MN	BLDTL20140220ACK	264.3
No	K35PC-D	D35	LD	CP	ROCHESTER, MN	BLANK0000072045	266.1
No	KSTP-TV	D35	DT	CP	ST. PAUL, MN	BLANK0000036053	282.1
No	KSTP-TV	D35	DT	LIC	ST. PAUL, MN	BLCDT20090622ABR	282.1
No	W39CV-D	D35	LD	CP	MINOCQUA, WI	BLANK0000035957	76.4

No	WEZY-LP	D35	LD	CP	TOMAH, WI	BDISDTL20120511AEI	168.0
No	WACY-TV	D36	DT	LIC	APPLETON, WI	BLANK0000074905	156.2
No	W36FN-D	D36	LD	CP	BARABOO, WI	BLANK00000151595	167.9
Yes	WLEF-TV	D36	DT	CP	PARK FALLS, WI	BLANK0000035675	98.7
Yes	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	98.7
No	W21EF-D	N36-	TX	LIC	WAUPACA, WI	BLTT20060824AAL	101.8
No	W36EI-D	D36	LD	CP	WAUSAU, WI	BNPDTL20100507ACQ	26.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
 Mask: Stringent
 Latitude: 45 12 59.70 N (NAD83)
 Longitude: 89 32 53.00 W
 Height AMSL: 458.0 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: DIE-TUA (ID 120649) 125.0 deg
 Elev Pattn: Generic

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.057 kW	14.3 m	8.3 km
45.0	0.013	-8.3	5.8
90.0	5.59	20.2	25.0
135.0	13.9	20.6	29.2
180.0	1.15	32.3	18.2
225.0	0.044	53.9	10.5
270.0	0.030	51.9	9.4
315.0	0.045	13.1	7.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 25 m

Distance to Canadian border: 306.9 km

Distance to Mexican border: 2005.0 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 134.0 degrees Distance: 408.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 251.8 degrees Distance: 1396.1 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 BLANK0000035675 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLEF-TV	D36	DT	CP	PARK FALLS, WI	BLANK0000035675	
Undesireds:	W43DJ-D	D35	LD	APP	MERRILL, WI		98.7 km
	WLUC-TV	D35	DT	CP	MARQUETTE, MI	BLANK0000036029	191.7
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.6
	WACY-TV	D36	DT	LIC	APPLETON, WI	BLANK0000074905	251.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
32470.6	200,380	31638.9		198,881	31507.9	198,043	31496.8 197,960 0.04 0.04
Undesired		Total IX		Unique IX, before		Unique IX, after	
W43DJ-D	D35 LD APP	20.2		174		11.1	83
KAAL	D36 DT LIC	98.8		598	92.7 595	91.7	595
WACY-TV	D36 DT LIC	38.3		243	32.3 240	27.2	149

Interference to BLEDT20110323ABO LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	
Undesireds:	W43DJ-D	D35	LD	APP	MERRILL, WI		98.7 km
	WLUC-TV	D35	DT	CP	MARQUETTE, MI	BLANK0000036029	191.7
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.6
	WACY-TV	D36	DT	LIC	APPLETON, WI	BLANK0000074905	251.8
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
30353.0	192,638	29561.6	191,138	29450.6	190,353	29441.5 190,272	0.03 0.04
Undesired				Total IX	Unique IX, before	Unique IX, after	
W43DJ-D D35 LD APP		10.1		81		9.1 81	
KAAL D36 DT LIC		84.8		714	79.7 698	79.7 698	
WACY-TV D36 DT LIC		31.3		87	26.2 71	25.2 71	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W43DJ-D	D35	LD	APP	MERRILL, WI		
Undesireds:	WLUC-TV	D35	DT	CP	MARQUETTE, MI	BLANK0000036029	181.2 km
	K35JN-D	D35	LD	CP	DULUTH, MN	BLANK0000149960	264.3
	KSTP-TV	D35	DT	CP	ST. PAUL, MN	BLANK0000036053	282.1
	WLEF-TV	D36	DT	CP	PARK FALLS, WI	BLANK0000035675	98.7
	W36EI-D	D36	LD	CP	WAUSAU, WI	BNPDTL20100507ACQ	26.3
	Service area		Terrain-limited		IX-free	Percent IX	
854.4	11,542	849.4	11,482	838.2	11,357	1.31 1.09	
Undesired				Total IX	Unique IX	Prcnt Unique IX	
W36EI-D D36 LD CP		11.1		125	11.1 125	1.31 1.09	