

TVSTUDY ANALYSIS FOR PROPOSED CHANNEL 31 WITTENBERG, WISCONSIN

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Witt31a #6051, Model: Longley-Rice

Study build station data: LMS TV 2022-07-19

Proposal: WITT31A D31 DT APP WITTENBERG, WI
File number: Witt31a
Facility ID: 86204
Station data: User record
Record ID: 4758
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WPXE-TV	D30	DT	LIC	KENOSHA, WI	BLANK0000087614	212.5 km
No	WQAD-TV	D31	DT	LIC	MOLINE, IL	BLANK0000120809	404.7
No	WNIT	D31	DT	LIC	SOUTH BEND, IN	BLANK0000087078	424.1
No	WMKG-CD	D31	DC	LIC	MUSKEGON, MI	BLANK0000107817	290.2
No	WRPT	D31	DT	LIC	HIBBING, MN	BLEDT20090603AAY	415.2
No	KARE	D31	DT	LIC	MINNEAPOLIS, MN	BLANK0000165989	324.2
Yes	WITI	D31	DT	LIC	MILWAUKEE, WI	BLANK0000086971	212.5
No	WUMN-TV	D32	DT	LIC	ESCANABA, MI	BLANK0000063727	218.6
No	WTMJ-TV	D32	DT	LIC	MILWAUKEE, WI	BLANK0000086939	212.2

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
Latitude: 44 49 5.90 N (NAD83)
Longitude: 89 1 59.10 W
Height AMSL: 428.8 m
HAAT: 96.0 m
Peak ERP: 17.0 kW
Antenna: ATC-ATC-BCH48CF-31 (ID 1005205) 90.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

40.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.853 kW	69.4 m	36.4 km
45.0	8.21	101.6	51.8
90.0	17.0	127.4	57.4
135.0	8.08	129.5	54.1
180.0	0.845	120.4	42.5
225.0	0.007	91.6	15.5
270.0	0.101	70.1	25.9
315.0	0.011	57.9	14.0

Proposal 25.42 dBu contour does not cross Canadian border
Distance to Canadian border: 351.5 km

Distance to Mexican border: 1993.1 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 133.8 degrees Distance: 348.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 254.3 degrees Distance: 1421.9 km

Study cell size: 2.00 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%

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Interference to BLANK0000086971 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WITI	D31	DT	LIC	MILWAUKEE, WI	BLANK0000086971	
Undesireds:	WITT31A	D31	DT	APP	WITTENBERG, WI	Witt31a	212.5 km
	WQAD-TV	D31	DT	LIC	MOLINE, IL	BLANK0000120809	284.3
	WNIT	D31	DT	LIC	SOUTH BEND, IN	BLANK0000087078	215.9
	WMKG-CD	D31	DC	LIC	MUSKEGON, MI	BLANK0000107817	137.0
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000153593	134.3
	WTMJ-TV	D32	DT	LIC	MILWAUKEE, WI	BLANK0000086939	0.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
26832.3	3,111,641	26659.8	3,102,097	26239.5	3,082,785	26207.4	3,081,952	0.12 0.03

Undesired		Total IX	Unique IX, before		Unique IX, after	
WITT31A D31 DT APP	36.2	884			32.2	833
WQAD-TV D31 DT LIC	404.3	19,105	388.3	18,882	388.3	18,882
WNIT D31 DT LIC	8.0	92	4.0	51	0.0	0
WMKG-CD D31 DC LIC	12.0	204	0.0	0	0.0	0
WTMJ-TV D32 DT LIC	15.9	175	11.9	156	11.9	156

Interference to proposal scenario 1
3.09% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WITT31A	D31	DT	APP	WITTENBERG, WI	Witt31a	
Undesireds:	WITI	D31	DT	LIC	MILWAUKEE, WI	BLANK0000086971	212.5 km

Service area		Terrain-limited		IX-free		Percent IX	
5247.5	73,039	5223.5	72,695	5075.9	70,448	2.83	3.09

Undesired		Total IX	Unique IX		Prcnt Unique IX	
WITI D31 DT LIC	147.6	2,247	147.6	2,247	2.83	3.09
