

INTERFERENCE ANALYSIS FOR LICENSED WYTU-LD, MILWAUKEE, WI, CHANNEL 17, WITH RESPECT TO WBME-CD

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: wytul7l1, Model: Longley-Rice

Study build station data: LMS TV 2018-03-20

Proposal: WYTU17L1 D17 LD LIC MILWAUKEE, WI
File number: wytul7l1
Facility ID: 168618
Station data: User record
Record ID: 2457
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WTVO	D16	DT	LIC	ROCKFORD, IL	BLCDT20021024AAS	136.6 km
No	WEID-LD	D16	LD	LIC	SOUTH BEND, IN	BLDTL20141105ADE	221.2
Yes	KWQC-TV	D17	DT	CP	DAVENPORT, IA	BLANK0000033932	272.1
No	KQCT-LP	D17	LD	CP	DAVENPORT, IA	BMPDTL20120206AAB	284.0
No	NEW	D17	LD	APP	PEORIA, IL	BNPDTL20091026ABJ	305.7
Yes	WIDN-LD	D17	LD	LIC	ROCKFORD, IL	BLANK0000008118	124.5
Yes	WIDN-LD	D17	LD	CP	ROCKFORD, IL	BLANK0000013332	114.1
Yes	WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	200.7
No	WISH-TV	D17	LD	LIC	INDIANAPOLIS, IN	BLCDT20110207ACU	385.8
No	WALV-CD	D17	DC	CP	INDIANAPOLIS, IN	BLANK0000028083	382.5
Yes	WOTV	D17	DT	CP	BATTLE CREEK, MI	BLANK0000034787	209.4
No	WXMI	D17	LD	LIC	GRAND RAPIDS, MI	BLCDT20141105ACV	244.6
Yes	W17DF-D	D17	LD	LIC	MUSKEGON, MI	BLDTL20110215AAG	145.6
Yes	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	297.8
Yes	WGBD-LD	D17	LD	APP	GREEN BAY, WI	BLANK0000048529	144.3
Yes	WBME-CD	D17	DC	CP	MILWAUKEE, WI	BLANK0000034630	0.0
No	WMEU-CD	D18	DC	CP	CHICAGO, IL	BLANK0000034599	139.1
Yes	WMSN-TV	D18	DT	CP	MADISON, WI	BLANK0000034381	130.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17

Mask: Stringent
Latitude: 43 6 42.00 N (NAD83)
Longitude: 87 55 50.00 W
Height AMSL: 516.9 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	310.7 m	58.4 km
45.0	15.0	339.7	59.9
90.0	15.0	339.9	60.0
135.0	15.0	333.2	59.6
180.0	15.0	316.6	58.7
225.0	15.0	293.8	57.5
270.0	15.0	289.3	57.2
315.0	15.0	290.7	57.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 314 m

Distance to Canadian border: 404.2 km

Distance to Mexican border: 1905.2 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 108.6 degrees Distance: 170.5 km

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Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 263.0 degrees Distance: 1471.1 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLANK0000034630 CP scenario 1

****IX: 97.59% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBME-CD	D17	DC	CP	MILWAUKEE, WI	BLANK0000034630	
Undesireds:	WYTU17L1	D17	LD	LIC	MILWAUKEE, WI	wytu17l1	0.0 km
	KWQC-TV	D17	DT	CP	DAVENPORT, IA	BLANK0000033932	272.1
	WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	200.7
	WOTV	D17	DT	CP	BATTLE CREEK, MI	BLANK0000034787	209.4
	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	297.8
	WMEU-CD	D18	DC	CP	CHICAGO, IL	BLANK0000034599	139.1
	WMSN-TV	D18	DT	CP	MADISON, WI	BLANK0000034381	130.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	10666.1	1,837,118	10636.2	1,836,606	10605.2	1,836,064	330.6	44,222	96.88 97.59

Undesired				Total IX	Unique IX, before	Unique IX, after
WYTU17L1 D17 LD LIC			10305.6	1,792,384		10274.6 1,791,842
KWQC-TV D17 DT CP		4.0		91	0.0 0	0.0 0
WYIN D17 DT LIC		11.0		176	4.0 33	0.0 0
WOTV D17 DT CP		21.0		347	6.0 184	0.0 0
WEAU D17 DT CP		20.0		309	4.0 71	0.0 0
