

## WMNN-LD Present Allocation Interference Study

Study created: 2018.05.15 16:43:15

Study build station data: LMS TV 2018-05-14

Proposal: WMNN-LD D14 LD LIC LAKE CITY, MI  
File number: BLANK0000007774  
Facility ID: 184267  
Station data: LMS TV 2018-05-14  
Record ID: 25076ff351cfc4c30151e9b9c8e60214  
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	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	469.1 km
No	W14DS-D	D14	LD	CP	FORT WAYNE, IN	BNPDTL20091228AAV	358.1
No	WOBC-CD	D14	DC	LIC	BATTLE CREEK, MI	BLDTA20120403ADU	217.4
No	WKBD-TV	D14	DT	LIC	DETROIT, MI	BLCDT20090202AHW	253.7
Yes	W14EF-D	D14	LD	CP	GRAYLING, MI	BNPDTL20100223ADE	62.2
No	WLAJ	D14	DT	CP	LANSING, MI	BLANK0000028168	212.3
Yes	WLAJ	D14	DT	APP	LANSING, MI	BLANK0000034828	188.5
No	W14EM-D	D14	LD	CP	MARQUETTE, MI	BDCCDTL20140121ACW	303.0
Yes	WYST-LD	D14	LD	CP	PETOSKEY, MI	BNPDTL20090825ABP	141.9
No	WGBA-TV	D14	DT	CP	GREEN BAY, WI	BLANK0000034924	212.3
No	W14DW-D	D14	LD	CP	TOMAHAWK, WI	BNPDTL20100510AFF	373.1
No	WWEA-LD	D14	LD	LIC	WAUSAU, WI	BLANK0000014102	221.8
No	WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	153.7
No	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	140.3
No	W15DP-D	D15	LD	CP	GRAYLING, MI	BNPDTL20100223ADD	62.2
Yes	W15DF-D	D15	LD	CP	HOUGHTON LAKE, MI	BNPDTL20100223AAN	41.1
No	W15BP	N15+	TX	LIC	PINCONNING, MI	BLTTL20030609AAR	107.2
No	W15DJ-D	D15	LD	LIC	SISTER BAY, WI	BLDTT20150122AAB	178.6
No	WCWF	D15	DT	CP	SURING, WI	BLANK0000034485	213.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14  
Mask: Stringent  
Latitude: 44 14 26.80 N (NAD83)  
Longitude: 85 18 59.80 W  
Height AMSL: 566.9 m  
HAAT: 0.0 m  
Peak ERP: 1.97 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 1.50

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.97 kW	170.7 m	40.3 km
45.0	1.97	185.8	41.2
90.0	1.97	201.2	42.1
135.0	1.97	182.7	41.0
180.0	1.97	125.5	37.4
225.0	1.97	161.1	39.7
270.0	1.97	167.7	40.1
315.0	1.97	152.8	39.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 168 m

Proposal 23.72 dBu contour does not cross Canadian border

## **WMNN-LD Present Allocation Interference Study**

Distance to Canadian border: 221.6 km

Distance to Mexican border: 2142.6 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 196.1 degrees    Distance: 188.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 261.4 degrees    Distance: 1696.4 km

No land mobile station failures found

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%

\*\*IX check failure to BNPDTL20100223ADE CP scenario 1, 2.15% interference caused  
\*\*IX check failure to BNPDTL20100223ADE CP scenario 2, 2.15% interference caused

---- Below is IX received by proposal BLANK0000007774 ----

Proposal receives 4.64% interference from scenario 1  
\*\*MX with BLANK0000034828 APP scenario 2, 6.33% interference received