

TVSTUDY INTERFERENCE ANALYSIS RESULTS
 PROPOSED WAOE-DT DTS
 CHANNEL 10 – OSWEGO, ILLINOIS
 [MODIFICATION OF LMS-0000189533]

Study created: 2022.09.12 13:04:49

Study build station data: LMS TV 2022-08-28

Proposal: WAOE D10 DD CP OSWEGO, IL

File number: BLANK0000189533

Facility ID: 52280

Station data: User record

Record ID: 23

Country: U.S.

Zone: I

Ref. lat.: 41 22 31.00 N

Ref. long.: 88 38 59.60 W

DTS sites: 2

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	NEW	D9	DT	APP	FREEDPORT, IL	BLANK0000195673	111.1 km
Yes	WILL-TV	D9	DT	APP	URBANA, IL	BPEDT20100406ABJ	148.5
Yes	WILL-TV	D9	DT	LIC	URBANA, IL	BLEDT20050920AEE	148.5
No	WISH-TV	D9	DT	LIC	INDIANAPOLIS, IN	BLANK0000055426	264.1
Yes	WGEM-TV	D10	DT	LIC	QUINCY, IL	BLANK0000105998	276.0
Yes	WTHI-TV	D10	DT	CP	TERRE HAUTE, IN	BLANK0000191700	260.2
Yes	WTHI-TV	D10	DT	LIC	TERRE HAUTE, IN	BLCDT20090622ACG	260.1
Yes	WILX-TV	D10	DT	LIC	ONONDAGA, MI	BLCDT20120404ACG	357.5
Yes	KTTC	D10	DT	LIC	ROCHESTER, MN	BLCDT20101102ACA	394.2
Yes	KTTC	D10	DT	CP	ROCHESTER, MN	BLANK0000035728	394.2
No	WCIX	D11	DT	LIC	SPRINGFIELD, IL	BLANK0000113046	190.6
No	WCIX	D11	DT	CP	SPRINGFIELD, IL	BLANK0000127610	190.6
No	WLFI-TV	D11	DT	LIC	LAFAYETTE, IN	BLCDT20040520AIX	203.3
No	WISC-TV	D11	DT	LIC	MADISON, WI	BLANK0000126605	200.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied, DTS site # 1:

Channel: D10

Latitude: 41 16 54.60 N (NAD83)

Longitude: 88 56 11.10 W

Height AMSL: 596.6 m

HAAT: 410.7 m

Peak ERP: 30.0 kW

Antenna: Dielectric TLS-V6/VP-R C260 (ID 1009004) 45.0 deg

Elev Pattn: Generic

Elec Tilt: 7.10

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	20.0 kW	415.3 m	106.6 km
45.0	30.0	442.6	112.7
90.0	20.0	406.6	105.9
135.0	9.21	396.9	98.7
180.0	1.50	401.6	85.0
225.0	3.11	394.4	90.1
270.0	1.50	401.7	85.0
315.0	9.21	423.6	100.5

Database HAAT does not agree with computed HAAT

Database HAAT: 411 m Computed HAAT: 410 m

ERP exceeds maximum

ERP: 30.0 kW ERP maximum: 11.2 kW

Record parameters as studied, DTS site # 2:

Channel: D10

Latitude: 41 53 56.10 N (NAD83)

Longitude: 87 37 23.20 W

Height AMSL: 566.9 m

HAAT: 387.8 m

Peak ERP: 13.2 kW

Antenna: Dielectric-Custom Cardioid 0.0 deg

Elev Pattn: Generic

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	391.5 m	7.6 km
45.0	0.000	391.8	7.6
90.0	0.000	391.4	7.6
135.0	0.000	391.8	7.6
180.0	2.56	385.3	88.0
225.0	12.8	385.2	100.6
270.0	4.90	380.8	92.8
315.0	0.005	384.5	40.7

**DTS proposal has coverage outside reference facility and distance limit

Distance to Canadian border: 370.0 km

Distance to Mexican border: 1701.7 km

Conditions at FCC monitoring station: Allegan MI

DTS site # 1 Bearing: 58.2 degrees Distance: 287.0 km

DTS site # 2 Bearing: 59.6 degrees Distance: 158.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

DTS site # 1 Bearing: 270.1 degrees Distance: 1375.9 km

DTS site # 2 Bearing: 268.4 degrees Distance: 1486.0 km

Study cell size: 1.00 km

Profile point spacing: 0.40 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

---- Below is IX received by proposal BLANK0000189533 ----

**MX with BLANK0000195673 APP scenario 1, 1.71% interference received

**MX with BLANK0000195673 APP scenario 2, 1.69% interference received

**MX with BLANK0000195673 APP scenario 3, 1.71% interference received

**MX with BLANK0000195673 APP scenario 4, 1.69% interference received