

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING OF TEXAS, INC. ("TBT"), licensee of full-power digital television station WMWC-TV, Channel 8 in Galesburg, Illinois, in support of this amendment to its pending Application for Construction Permit LMS-000012747, which proposes an increase in effective radiated power.

The purpose of this amendment is to state that TBT will accept the incoming interference to its proposal generated from the pending upgrade proposal for WSIU-DT, Channel 8 in Carbondale, Illinois (LMS-0000035684), and from the pending upgrade proposal for WMVS-DT, Channel 8 in Milwaukee, Wisconsin (LMS-0000035791), as shown in the attached TVStudy analysis.

As a result of this interference acceptance amendment by the owner of WMWC-DT, it is believed that its power increase application (LMS-000012747) can be granted by the FCC.

I declare under penalty of perjury that the foregoing statements are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', is written over a faint, light blue rectangular background.

KEVIN T. FISHER

December 21, 2020

Interference check study for BLANK0000127477 WMWC-TV D8 DT APP *P GALESBURG, IL

Study complete

[log.txt](#)

Study created: 2020.12.16 14:48:53

Study build station data: LMS TV live server

Proposal: WMWC-TV D8 DT APP *P GALESBURG, IL
 File number: BLANK0000127477
 Facility ID: 81946
 Station data: LMS TV live server
 Record ID: 25076ff375d87a440175e1e60f331a68
 Country: U.S.
 Zone: I

Search options:

Non-U.S. records included

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KWWL	D7	DT	LIC	WATERLOO, IA	BLCDT20100707AXT	171.2 km
No	KHQA-TV	D7	DT	LIC	HANNIBAL, MO	BLCDT20090622AFC	169.2
No	KHQA-TV	D7	DT	CP	HANNIBAL, MO	BLANK0000035796	169.2
Yes	KCCI	D8	DT	LIC	DES MOINES, IA	BLCDT20090619AAG	275.2
Yes	KCCI	D8	DT	CP	DES MOINES, IA	BLANK0000035699	275.2
Yes	WSIU-TV	D8	DT	LIC	CARBONDALE, IL	BLEDT20090612ADB	369.7
No	WSIU-TV	D8	DT	APP	CARBONDALE, IL	BLANK0000035684	369.7
No	WWMT	D8	DT	LIC	KALAMAZOO, MI	BLCDT20090616AAV	426.1
No	WWMT	D8	DT	CP	KALAMAZOO, MI	BLANK0000035795	426.1
Yes	KOMU-TV	D8	DT	LIC	COLUMBIA, MO	BLCDT20090612AFB	313.5
Yes	WKBT-DT	D8	DT	LIC	LA CROSSE, WI	BLCDT20090507ACT	318.6
Yes	WKBT-DT	D8	DT	CP	LA CROSSE, WI	BLANK0000035780	318.6
Yes	WMVS	D8	DT	APP	MILWAUKEE, WI	BLANK0000035791	284.3
Yes	WMVS	D8	DT	LIC	MILWAUKEE, WI	BLANK0000040294	284.3
Yes	KCRG-TV	D9	DT	LIC	CEDAR RAPIDS, IA	BLANK0000001351	165.7
No	WILL-TV	D9	DT	APP	URBANA, IL	BPEDT20100406ABJ	202.0
No	WILL-TV	D9	DT	LIC	URBANA, IL	BLEDT20050920AEE	202.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D8
 Latitude: 41 18 44.50 N (NAD83)
 Longitude: 90 22 46.20 W
 Height AMSL: 554.7 m
 HAAT: 330.0 m
 Peak ERP: 39.0 kW
 Antenna: ALI-ATC-BCE780-8 (ID 104290) 310.0 deg
 Elev Pattern: Generic
 Elec Tilt: 0.50

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	29.9 kW	340.2 m	104.1 km
45.0	15.9	327.3	97.9
90.0	13.4	326.6	96.5

135.0	16.1	329.9	98.2
180.0	13.1	326.2	96.3
225.0	17.7	333.8	99.3
270.0	32.6	318.5	103.0
315.0	38.8	326.6	105.2

Database HAAT does not agree with computed HAAT
Database HAAT: 330 m Computed HAAT: 329 m

ERP exceeds maximum
ERP: 39.0 kW ERP maximum: 23.4 kW

Distance to Canadian border: 605.5 km

Distance to Mexican border: 1621.6 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 67.1 degrees Distance: 392.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 269.0 degrees Distance: 1255.5 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%

---- Below is IX received by proposal BLANK0000127477 ----

**MX with BLANK0000035791 APP scenario 1, 2.04% interference received
Proposal receives 1.62% interference from scenario 2
**MX with BLANK0000035791 APP scenario 3, 2.04% interference received
Proposal receives 1.62% interference from scenario 4
**MX with BLANK0000035791 APP scenario 5, 2.29% interference received
Proposal receives 1.87% interference from scenario 6
**MX with BLANK0000035791 APP scenario 7, 2.29% interference received
Proposal receives 1.87% interference from scenario 8
**MX with scenario 9, 2.96% interference received
**MX with BLANK0000035684 APP scenario 10, 2.86% interference received
**MX with scenario 11, 2.97% interference received
**MX with BLANK0000035684 APP scenario 12, 2.87% interference received
**MX with scenario 13, 3.22% interference received
**MX with BLANK0000035684 APP scenario 14, 3.11% interference received
**MX with scenario 15, 3.22% interference received
**MX with BLANK0000035684 APP scenario 16, 3.12% interference received

Output files

[tvstudy.txt](#)
[tvixstudy.txt](#)
[tvixcontour.csv](#)
[tvixcontour.kml](#)
[tvstudy_settings.txt](#)

[Main menu](#)