

ENGINEERING STATEMENT
ACME TV Corp.
July, 2023

ACME TV Corp., (“Acme”) licensee of WWDG-CD, Utica, NY and permittee of Construction Permit (“CP”) 0000207629 seeks to modify its CP. Based on wind loading and tower space available, the tower owner has requested that an antenna with less wind loading be utilized (Kathrein/Scala SL-8) and for the antenna to be placed at a higher height where space is presently available. With the additional height and transmission line length, it is proposed to reduce the station’s ERP from 15.0 kW to 10.2 kW.

As the attached map depicts, the proposed 25.14 dBu (50,10) contour would be entirely contained within the same contour of the existing CP, and therefore does not require any new or changed notification to Canada. A TVStudy report is attached confirming that no other authorizations would receive any impermissible interference.

The tower has two FM stations near its upper portion, and as in the present CP, the antenna for WWDG-CD would be located between the two FM stations.

Utilizing the Commission’s documents from OET Bulletin 65, Supplement A, worksheets, and additional calculations, it has been determined that the proposal is compliant for RF exposure in both controlled and uncontrolled locations within the vicinity of the tower.

Study created: 2023.07.13 17:25:22

Study build station data: LMS TV 2023-07-12

Proposal: WWDG-CD D28 DC APP UTICA, NY
File number: BLANK0000207629
Facility ID: 34342
Station data: User record
Record ID: 365
Country: U.S.

Build options:
Protect LPTV records from Class A

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Individual records excluded:
0000001609 WWDG-CD D28 DC LIC UTICA, NY BLANK0000001609
0000075625 DDWBPN-LP D28z LD APP BINGHAMTON, NY BLANK0000075625
0000207629 WWDG-CD D28 DC CP UTICA, NY BLANK0000207629
34342 WWDG-CD D28 DC BL UTICA, NY DTVBL34342

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	DWSTQ-LP	N14z	TX	APP	SYRACUSE, NY	BLTTL20030604ABA	80.7 km
No	WZPJ-LD	N21+	TX	LIC	ALBANY, NY	BLTTL20061201AAG	135.0
No	WNYT	D27	LD	LIC	ALBANY, NY	BLANK0000155446	132.3
No	WIVT	D27	DT	LIC	BINGHAMTON, NY	BLANK0000090477	135.7
No	WMJQ-CD	D27	DC	LIC	SYRACUSE, NY	BLANK0000121173	80.7
No	WOLF-TV	D27	LD	LIC	HAZLETON, PA	BLANK0000155439	169.3
No	W24EZ-D	N28z	TX	LIC	ALLINGTOWN, CT	BLTTL20010608AAO	274.8
Yes	WHPX-TV	D28	DT	LIC	NEW LONDON, CT	BLANK0000080171	250.4
No	W28DA-D	D28	LD	LIC	PITTSFIELD, MA	BLDTT20090604ABU	175.4
No	WFPT	D28	DT	LIC	FREDERICK, MD	BLANK0000160164	467.0
No	WVOO-LD	D28	LD	LIC	WESTMORELAND, NH	BLANK0000216838	347.2
Yes	WNYT	D28	LD	LIC	ALBANY, NY	BLANK0000151254	117.0
No	WNYP-LD	D28	LD	CP	New york, NY	BLANK0000127436	263.9
No	WNYJ-LD	D28-	LD	LIC	Newburgh, NY	BLANK0000205864	185.8
No	WEPT-CD	D28	DC	LIC	Peeckskill, NY	BLANK0000205865	230.0
Yes	WUHF	D28	DT	LIC	ROCHESTER, NY	BLANK0000211751	195.1
No	WJET-TV	D28	DT	LIC	ERIE, PA	BLANK0000080704	418.5
No	WCAU	D28	DT	LIC	PHILADELPHIA, PA	BLANK0000079825	344.9
No	WBRE-TV	D28	LD	LIC	WILKES-BARRE, PA	BLCDT20091211ADO	169.3
No	WVTB	D28	DT	LIC	ST. JOHNSBURY, VT	BLANK0000098226	307.4
No	W28DQ-D	D28	LD	LIC	WINDSOR, VT	BLDTL20120507ABK	222.9
No	WBGTV-CD	D29	DC	LIC	ROCHESTER, NY	BLANK0000095379	195.1
No	WRGB	D29	LD	LIC	SCHENECTADY, NY	BLANK0000129770	162.0
Yes	WKTV	D29	DT	LIC	UTICA, NY	BLCDT20060630ACL	19.9
No	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	268.8
No	WQMY	D29	DT	CP	WILLIAMSPORT, PA	BLANK0000035754	268.8
No	DDDW31BP	N31+	TX	APP	BURLINGTON, ETC., NY	BLTTL19980120JE	47.8
No	WWLF-LD	N35z	TX	LIC	SYRACUSE, NY	BLTTA20050922ACH	80.7
No	CIII-DT-27D27		DT	LIC	PETERBOROUGH, ON	BLANKCANADA213	259.8
No	CHCH-DT-3	D28	DT	LIC	MUSKOKA, ON	BLANKCANADA191	420.0
No	CJOH-TV-47D28		DT	LIC	PEMBROKE, ON	BLANKCANADA211	337.8
No	CKWS-TV-2	D28	DT	LIC	PRESCOTT, ON	BLANKCANADA215	189.6
No	CKTM-DT	D28	DT	LIC	TROISRIVIERES, QC	BLANKCANADA315	423.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Mask: Full Service
Latitude: 43 8 39.00 N (NAD83)
Longitude: 75 10 44.00 W
Height AMSL: 441.0 m
HAAT: 0.0 m

Peak ERP: 10.2 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.75

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	10.2 kW	168.9 m	47.0 km
45.0	10.2	144.0	45.4
90.0	10.2	78.8	39.0
135.0	10.2	258.9	52.1
180.0	10.2	156.0	46.2
225.0	10.2	257.9	52.1
270.0	10.2	272.7	52.9
315.0	10.2	197.8	48.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 192 m

**Proposal 25.14 dBu contour crosses Canadian border, coordination required
Distance to Canadian border: 141.4 km

**NOTE: THIS PROPOSAL HAS ALREADY RECEIVED CONCURRENCE FROM CANADA AS THE REQUESTED
INTERFERING 25.14 DBU CONTOUR IS WITHIN THE CONTOUR IN THE EXISTING CP: 0000207629**

Distance to Mexican border: 2741.5 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 262.1 degrees Distance: 171.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 272.7 degrees Distance: 2503.9 km

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%

---- Below is IX received by proposal BLANK0000207629 ----

Proposal receives 4.70% interference from scenario 1
No IX check failures found.

WWDG-CD, Utica, NY - CP & Proposed 25.14 dBu Interfering Contours

WWDG-CD.A

0000207629
Latitude: 43-08-39 N
Longitude: 075-10-44 W
ERP: 10.20 kW
Channel: 28
Frequency: 557.0 MHz
AMSL Height: 441.0 m
Elevation: 368.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 1.75
Prop Model: NoProp

WWDG-CD.C

0000207629
Latitude: 43-08-39 N
Longitude: 075-10-44 W
ERP: 15.00 kW
Channel: 28
Frequency: 557.0 MHz
AMSL Height: 432.0 m
Elevation: 368.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 1.75
Prop Model: NoProp

