

ENGINEERING STATEMENT

Metro TV, Inc.

April, 2023

Metro TV, Inc. (“Metro”) is the licensee of WVOA-LD, channel 6, Westvale, NY (Fac. ID 14319), and holds construction permit 0000XXXXX to improve its facilities.

Based on a further wind load study and available space on the tower, a minor modification is proposed to slightly increase the height of the center of radiation of the antenna as well as a corresponding decrease in ERP so as to not extend the authorized 13 dBu (50,10) interfering contour which would then require further coordination with Canada. (See maps attached.) No other changes are proposed, and no increase in the height of the tower is proposed.

A TVStudy (attached) was performed and reveals no prohibitive interference would be caused to any other facility.

The antenna authorized in the CP is proposed to utilize the existing transmission line for WVOA-LD, and as the tower is the non-directional antenna for WOLF(AM), Syracuse, NY (Fac. ID 73380), Metro will make measurements in accordance with Section 1.30003(a) of the Commission’s Rules. As the WOLF(AM) tower is a unipole design, and the proposed modification is well above the active AM skirt, in the unlikely event that the antenna resistance changes by more than two percent, the licensee of WOLF(AM), WOLF Radio, Inc., which is commonly-owned with Metro, will file Form 302-AM to return to direct measurement.

Study created: 2023.04.30 17:09:01

Study build station data: LMS TV 2023-04-18

Proposal: WVOA-LD D6 LD APP WESTVALE, NY
File number: BLANK0000186547
Facility ID: 14319
Station data: User record
Record ID: 363
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

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

Individual records excluded:
0000144350 DWXXW-LP D6- LD APP BINGHAMTON, NY BLANK0000144350 (license cancelled)
20080128ACC WNYZ-LD N6+ TX LIC NEW YORK, NY BLTVL20080128ACC (WNYZ-LD former analog license - DTV listing below)
20090622AAX WVOA-LD N6+ TX LIC WESTVALE, NY BLTVL20090622AAX (WVOA-LD former analog license - now DTV ch. 6)
20120312AAI DWNDR-LP N6z TX APP AUBURN, NY BLTVL20120312AAI (WNDR-LD former analog license on ch. 6 - now DTV ch. 32)

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WNYB	D5	DT	LIC	JAMESTOWN, NY	BLANK0000080668	260.7 km
No	WVCC-LD	D6	LD	LIC	WESTMORELAND, NH	BLANK0000207046	412.9
No	WNYZ-LD	D6	LD	LIC	NEW YORK, NY	BLANK0000184380	315.9
Yes	WKBS-TV	D6	DT	LIC	ALTOONA, PA	BLANK0000084211	334.8
Yes	WPVI-TV	D6	DT	APP	PHILADELPHIA, PA	BLANK0000035671	343.8
Yes	WPVI-TV	D6	DT	LIC	PHILADELPHIA, PA	BLCDT20111019ACJ	343.9

Non-directional AM stations within 0.8 km:
WOLF 1490 L ND2 D SYRACUSE, NY BL20150609ABO
WOLF 1490 L ND2 N SYRACUSE, NY BL20150609ABO

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D6
Mask: Stringent
Latitude: 43 3 30.00 N (NAD83)
Longitude: 76 9 59.00 W
Height AMSL: 222.5 m
HAAT: 53.0 m
Peak ERP: 2.75 kW
Antenna: Omnidirectional
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.75 kW	100.1 m	47.4 km
45.0	2.75	99.9	47.3
90.0	2.75	90.7	45.7
135.0	2.75	-16.5	30.7
180.0	2.75	8.9	30.7
225.0	2.75	-25.2	30.7
270.0	2.75	60.0	39.7
315.0	2.75	102.4	47.8

**Proposal 13.00 dBu contour crosses Canadian border, coordination required Distance to Canadian border: 81.5 km (The proposed 13 dBu (50,10) contour is fully contained within the authorized 13 dBu of the existing WVOA-LD CP. Further coordination is not required.)

Distance to Mexican border: 2672.4 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 260.2 degrees Distance: 90.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 272.3 degrees Distance: 2424.3 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%

No IX check failures found.

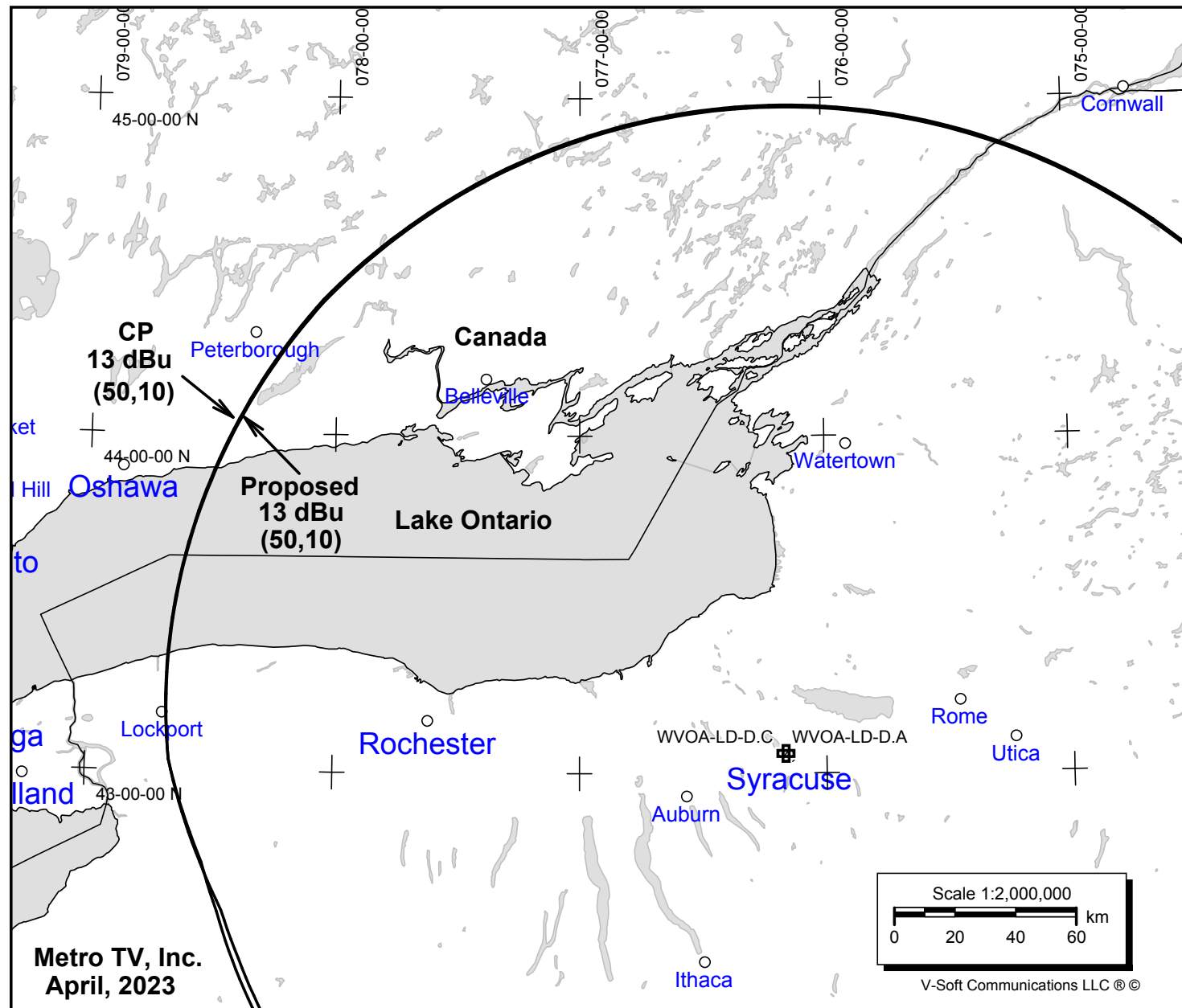
WVOA-LD - CP & Proposed 13 dBu (50,10) Contours

WVOA-LD-D.C

0000186547
Latitude: 43-03-30 N
Longitude: 076-09-59 W
ERP: 3.00 kW
Channel: 6
Frequency: 85.0 MHz
AMSL Height: 214.6 m
Elevation: 114.3 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: NoProp

WVOA-LD-D.A

Latitude: 43-03-30 N
Longitude: 076-09-59 W
ERP: 2.75 kW
Channel: 6
Frequency: 85.0 MHz
AMSL Height: 222.5 m
Elevation: 114.3 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: NoProp



WVOA-LD - CP & Proposed 13 dBu (50,10) Contours (Expanded View)

WVOA-LD-D.C

0000186547
Latitude: 43-03-30 N
Longitude: 076-09-59 W
ERP: 3.00 kW
Channel: 6
Frequency: 85.0 MHz
AMSL Height: 214.6 m
Elevation: 114.3 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: NoProp

WVOA-LD-D.A

Latitude: 43-03-30 N
Longitude: 076-09-59 W
ERP: 2.75 kW
Channel: 6
Frequency: 85.0 MHz
AMSL Height: 222.5 m
Elevation: 114.3 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: NoProp

