

Purpose of Application

The purpose of this WKVU minor modification is to correct the transmitter geographic coordinates. Since the licensed coordinates and the corrected coordinates differ by more than 3 seconds latitude/longitude, this minor modification construction permit request is required. No physical changes to WKVU are proposed. No new short spacings or contour overlaps will be created by the proposed corrected coordinates.

	Licensed	Minor Mod
Channel / Class	297B	297B
ASRN	N/A	N/A
Geographical Coordinates	43 08 40.2 75 10 30.51	43 08 37.7 75 10 22.9
Tower AGL	48.7 m	48.7 m
Site AMSL	362 m	362 m
COR AGL	40 m	40 m
COR AMSL	402 m	402 m
HAAT	150.6 m	150.6 m
ERP	50 kW (H&V, non-DA)	50 kW (H&V, non-DA)

GLOBE terrain data

WKVU Site Spacing

REFERENCE
43 08 37.70 N. CLASS = B Int = B
75 10 22.90 W. Current Spacings to 3rd Adj.
----- Channel 297 - 107.3 MHz -----

DISPLAY DATES
DATA 04-14-23
SEARCH 04-27-23

Call	Channel	Location	Azi	Dist	FCC	Margin
WKVU	LIC	297B Utica NY	294.3	0.18	240.5	-240.3
CBCK-FM	OP	298C1 Kingston ON	320.9	165.19	195.0	-29.8
W243DY	LIC	243D Rome NY	204.0	0.14	14.5	-14.4
W295DI	LIC-D	295D Utica NY	276.0	0.47	11.5	-11.0
WKBE	LIC	296A Corinth NY	83.9	114.47	112.5	2.0
WWHT	LIC	300B Syracuse NY	255.0	79.09	73.5	5.6
WRWD-FM	LIC	297A Highland NY	148.7	187.08	177.5	9.6
WNBL	LIC	297A South Bristol TownsNY	257.2	189.06	177.5	11.6
WSYR-FM	LIC-Z	295B1 Solvay NY	259.7	85.00	70.5	14.5
CITE-HD-AAX		297C1 Montréal QC	25.1	286.76	271.0	15.8
CITE-FM-AAX		297C1 Montréal QC	25.1	286.76	271.0	15.8
WCAA-LP	LIC	297L1 Albany NY	115.1	128.23	111.5	16.7
WBBI	LIC	298A Endwell NY	211.4	130.63	112.5	18.1
W298DC	LIC-D	298D Liverpool NY	269.7	94.81	75.5	19.3
CITE-FM-AAX		297C1 Montréal QC	25.0	291.11	271.0	20.1
CITE-FM	OP	297C1 Montréal QC	25.0	291.11	271.0	20.1
CITE-HD	OP	297C1 Montréal QC	25.0	291.11	271.0	20.1
WBDR	LIC-Z	294C3 Copenhagen NY	331.9	92.91	70.5	22.4
AU6229623VAC		296A Livingston Manor NY	167.0	136.27	112.5	23.8
CITE-FM-AAX		297C1 Montréal QC	22.1	301.69	271.0	30.7
WGNA-FM	LIC	299B Albany NY	120.1	111.32	73.5	37.8
R18051	ADD	296B1 Athens PA	223.0	187.73	144.5	43.2
WZBF	RUL	296B1 Athens PA	223.0	187.73	144.5	43.2

Reference station has protected zone issue: Canada
All separation margins include rounding

Overlap Population Report
WKVU.P (297) / Utica, NY

Overlap Area Type: Intersection

Areas Included:

WKVU.P (297): FCC F(50-50) 70.00 dBu (FCC HAAT)

PLST: Utica, NY

Population Database: 2020 US Census (PL)

Total Population: 65,290

Overlap Area: 44.07 sq. km (Area determined using 0.021 km cells)

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
WKVU.P (297): FCC 70 (F(50-50)	267,742	3,346	24.4 %	1.3 %
PLST: Utica, NY	65,290	44.07	100.0 %	100.0 %

WKVU Community of License Coverage - Utica NY
Note: 100% of the Area and Population are contained within the 70dbu Service Contour

WKVU.P

BMLED20070817AAG

Latitude: 43-08-37.70 N

Longitude: 075-10-22.90 W

ERP: 50.00 kW

Channel: 297

Frequency: 107.3 MHz

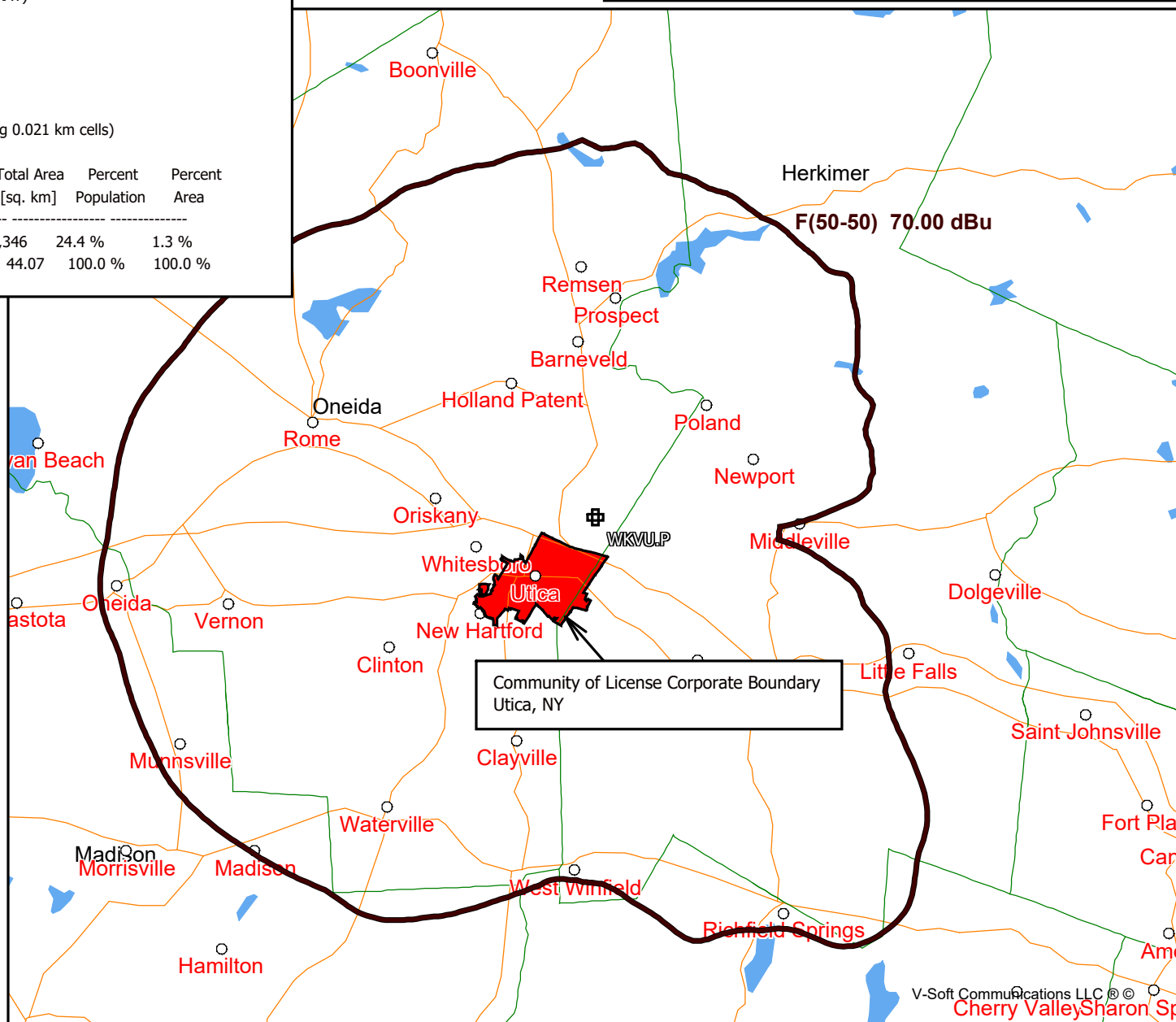
AMSL Height: 402.0 m

Elevation: 362.0 m

Horiz. Pattern: Omni

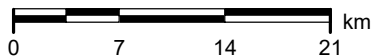
Vert. Pattern: No

Prop Model: None



Community of License Corporate Boundary
Utica, NY

Scale 1:500,000



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Cherry Valley Sharon Sp

Compliance with International Requirements

Existing FM station WKVU is located approximately 141 km from the Canadian border. No technical changes are proposed for WKVU. The proposed 34dbu interfering contour does not increase in distance over Canadian Soil. The 34dbu(F50-10) contour comparison is shown on the following exhibit. No new overlap areas will be created by this coordinate correction.

US-Canadian International Compliance Comparison of 34dbu(F50-10) Contours

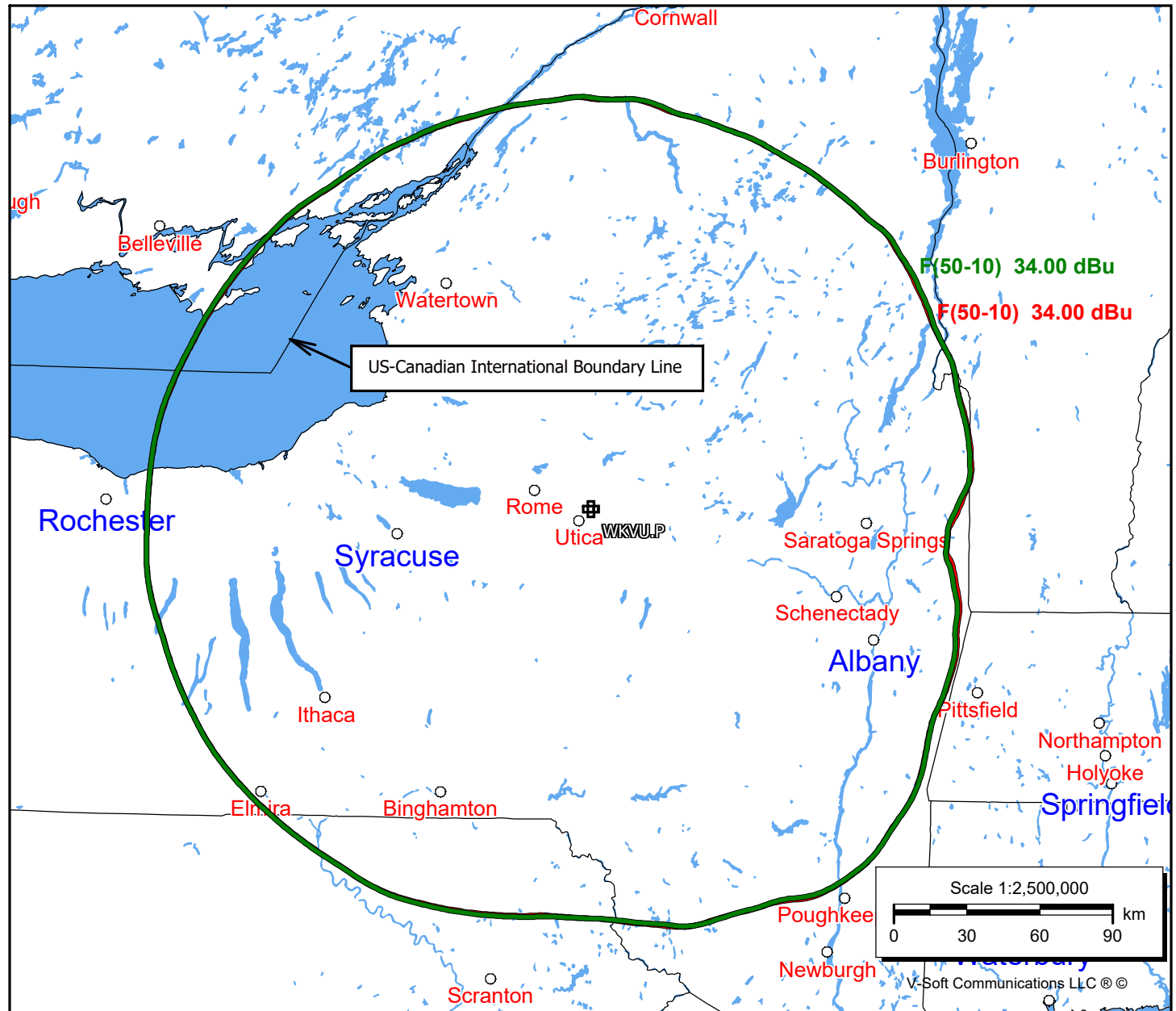
- WKVU (297)
- WKVU.P (297)

WKVU

BMLED20070817AAG
Latitude: 43-08-40.20 N
Longitude: 075-10-30.50 W
ERP: 50.00 kW
Channel: 297
Frequency: 107.3 MHz
AMSL Height: 402.0 m
Elevation: 362.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WKVU.P

Latitude: 43-08-37.70 N
Longitude: 075-10-22.90 W
ERP: 50.00 kW
Channel: 297
Frequency: 107.3 MHz
AMSL Height: 402.0 m
Elevation: 362.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



Educational Media Foundation

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Environmental Effects

Educational Media Foundation (“EMF”) certifies that WKVU complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

The RF worksheet in the Instructions to form 303-S was unusable to determine compliance for this facility because the facility is near several television broadcast facilities. Therefore, EMF did an on-site RF study to determine compliance for this site.

On 1/30/14, EMF Engineers Tom Oliver and Robert Hart used Narda RF measurement equipment¹ to determine compliance for this site. The tower site is enclosed within a fence, approximately 100 feet on a side, with yellow RF “Caution” signs mounted on each side as well as on the entrance gate.

Measurements were taken along eight approximately-evenly spaced radials from the base of the tower to approximately 100 meters from the tower, as well as within the building. The probe was slowly swept between 1-2 meters above the ground, as well as from side-to-side. The highest reading found at any location was 98.65% of the uncontrolled (public) exposure limit of $200\mu\text{W}/\text{cm}^2$ approximately 20 feet from the tower along the southwest radial. The next highest reading was 81.35% of the uncontrolled exposure limit, southeast of the tower and building, near the fence. There were no locations that exceeded the uncontrolled exposure limit of OET-65.

No changes have occurred since these measurements were done that would render them outdated. Based on this evaluation, WKVU continues to fully comply with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

¹ Instrument: Narda NBM-550, Serial Number E-0552, Calibration due 8/29/14
Probe: Narda EA5091, Serial Number 01057, Calibration due 7/28/2015