Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Ashtabula, OH
WOHK

Application Purpose

The purpose of this WOHK minor modification is to change the licensed geographical coordinates to match the geographic coordinates of the Antenna Structure Registration. Since the site elevation has also changed, a license modification to correct the coordinates is not an option.

The licensed and corrected service contours are seen below. No new overlaps occur as a result in this change of coordinates.

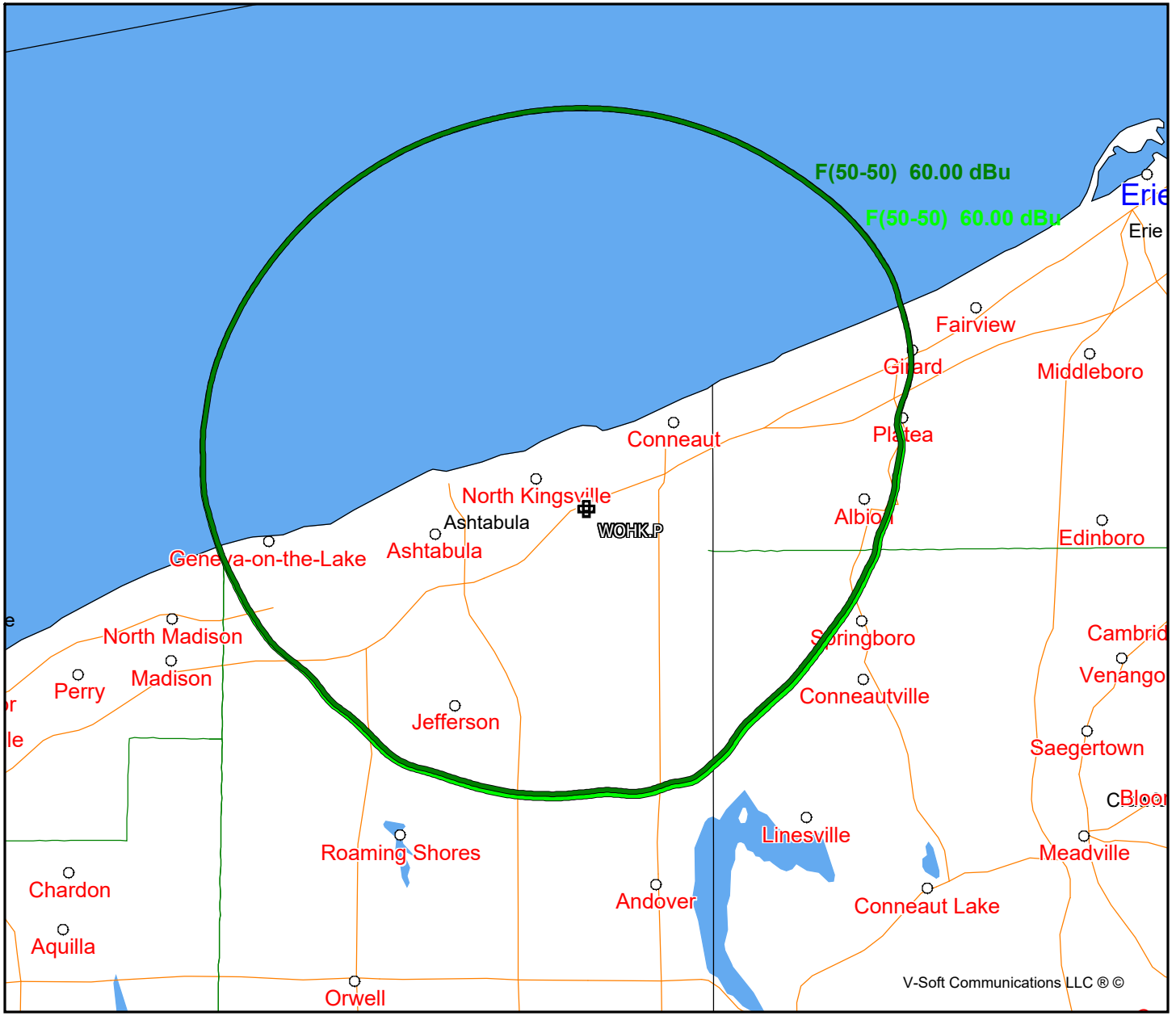
No physical changes are proposed to the WOHK facility.

WOHK Licensed and Proposed Service Contours

WOHK (241)
WOHK.P (241)

WOHK
BLED20171127ABY
Latitude: 41-53-04.20 N
Longitude: 080-38-27.30 W
ERP: 3.30 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 366.0 m
Elevation: 240.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WOHK.P
BLED20171127ABY
Latitude: 41-53-02.10 N
Longitude: 080-38-26.90 W
ERP: 3.20 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 369.8 m
Elevation: 243.8 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



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Channel Study

Compliance with 47 C.F.R. 73.207

Exhibit 1-A shows that the proposed WOHA facility meets all minimum distance separation requirements with regard to co-channel, first, second, or third adjacent channel stations, and those separated by 53/54 channels, except the licensed facilities of the following stations:

Station	Channel	City of License	Facility ID	Distance Short-Spaced
WKST	241B	Pittsburgh, Pa	65678	2.8km

This application proposes contour protection (47 C.F.R. 73.215. 47 C.F.R. 73.215(e)) for WKST.

The minimum separation requirement between a class A and a class B facility (WOHA and WKST), which are co-channel, is 143 km. Exhibit 1-A shows that WKST is separated from the proposed facility by 174.69 km.

Therefore, the proposed facility is permitted to use contour protection toward the short-spaced facilities (See Exhibit 2 for compliance with contour protection requirements).

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WOHK Site Spacing

REFERENCE
41 53 02.10 N.
80 38 26.90 W.

CLASS = A Int = A
Current Spacings to 3rd Adj.
Channel 241 - 96.1 MHz

DISPLAY DATES
DATA 05-26-22
SEARCH 06-07-22

Call		Channel	Location		Azi	Dist	FCC	Margin
WOHK	LIC-N	241A	Ashtabula	OH	351.9	0.06	114.5	-114.4
CFPL-FM+	OPE -?	240C1	London	ON	336.8	129.02	168.0	-39.0
CFPLFM	LIC -D	240C1	London	ON	336.9	129.51	168.0	-38.5
WKST-FM	LIC	241B	Pittsburgh	PA	160.8	174.69	177.5	-2.8
WXNM-LP	LIC	240L1	Erie	PA	65.8	53.80	55.5	-1.7
WAKZ	LIC	240A	Sharpsville	PA	174.9	74.23	71.5	2.7
WMSX	LIC	241B	Buffalo	NY	51.9	183.24	177.5	5.7
WEBG	LIC-Z	240A	Mina	NY	64.3	81.35	71.5	9.9
WFHM-FM	LIC	238B	Cleveland	OH	235.5	86.13	68.5	17.6
W242CU	LIC	242D	Erie	PA	62.4	53.31	35.5	17.8
WUTT-LP	LIC	238L1	Erie	PA	66.3	46.74	28.5	18.2
WLOQ	LIC	242A	Oil City	PA	123.5	97.75	71.5	26.3
WAKS	LIC-N	243B	Akron	OH	230.9	105.79	68.5	37.3
WWUC-LP	LIC	244L1	Union City	PA	88.3	66.02	28.5	37.5
WOVU-LP	LIC	240L1	Cleveland	OH	241.0	93.68	55.5	38.2
R13035	VAC	241B	Walkerton	ON	349.6	249.39	210.0	39.4
WLLF	LIC	244A	Mercer	PA	154.5	70.37	30.5	39.9
WCFI-LP	LIC	241L1	Cuyahoga Falls	OH	221.3	109.11	66.5	42.6
W244DX	APP	244D	Erie	PA	60.5	54.69	7.5	47.2
W244DX	LIC	244D	Erie	PA	60.5	54.69	7.5	47.2

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

Exhbit 2 - Contour Protection towards WKST-FM

Educational Media Foundation

FMCommander Single Allocation Study - 06-07-2022 - GLOBE 30 Sec
WOHK's Overlaps (In= 0.0 km, Out= 0.0 km)

WOHK CH 241 A 73.215 N
Lat= 41 53 02.10, Lng= 80 38 26.90
3.277 kW 139.2 m HAAT, 369.8 m COR
Prot.= 60 dBu, Intef.= 34 dBu

WKST-FM CH 241 B BLH19920206KC
Lat= 40 23 49.20, Lng= 79 57 42.20
44.0 kW 159 m HAAT, 464 m COR
Prot.= 54 dBu, Intef.= 40 dBu

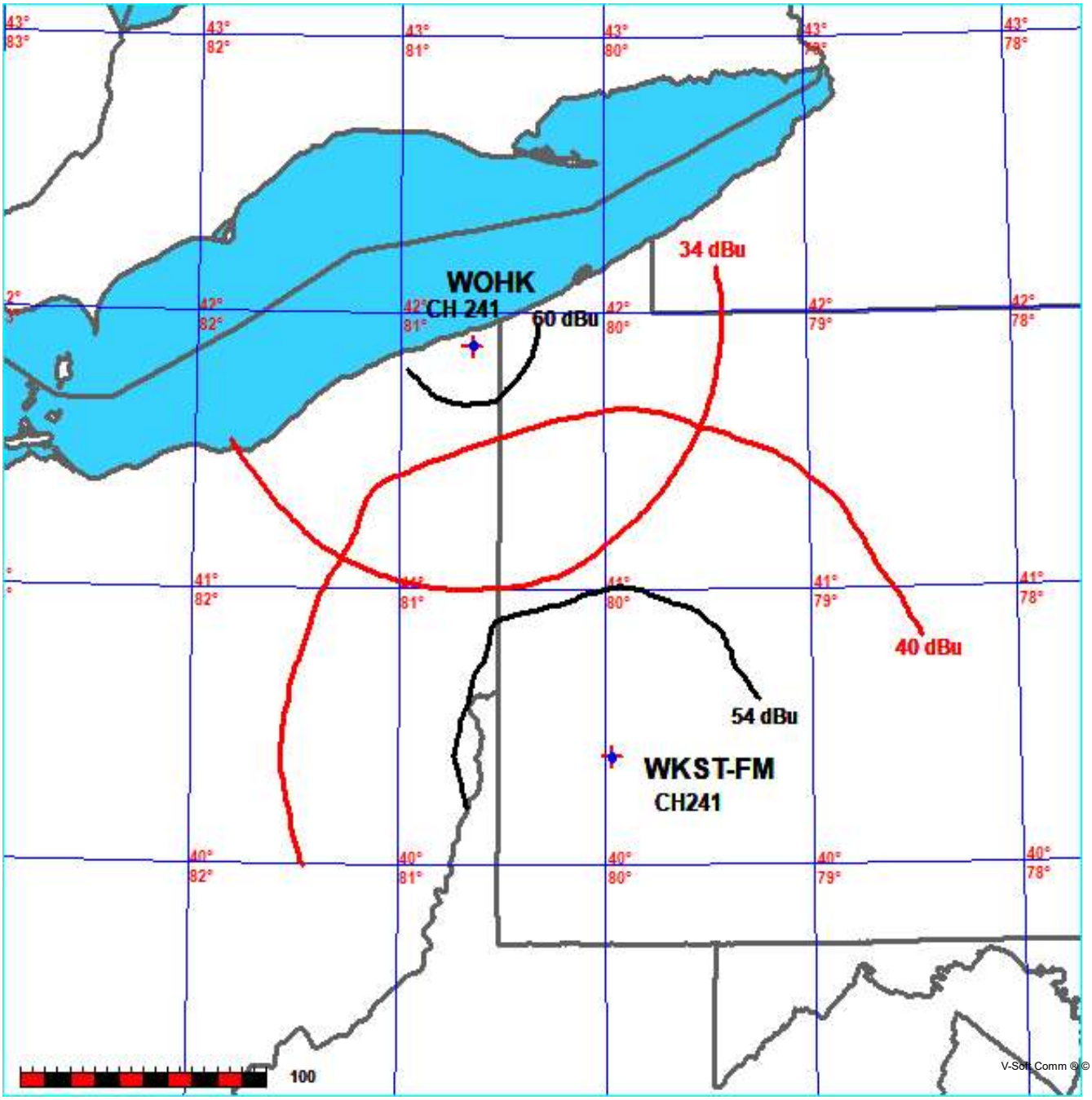

Exhibit 3 - City of License Coverage
Note: 100% of the Area and Population are Inside the 70dbu(F50-50) Contour

WOHK.P
BLED20171127ABY
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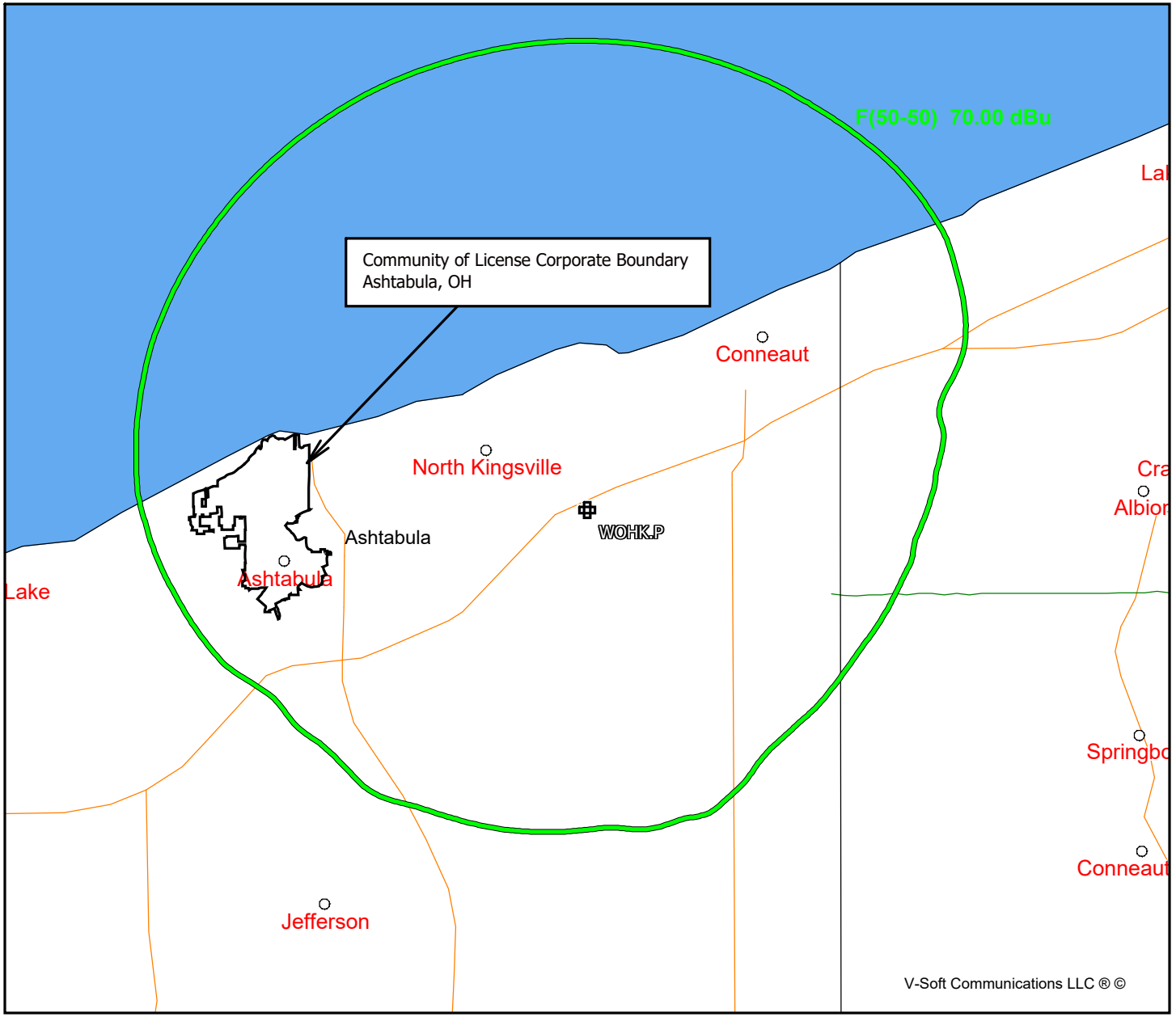
Vert. Pattern: No
Prop Model: None



Scale 1:250,000
km
0 3 6 9

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Compliance with Canadian Spacing Requirements

The facility contemplated herein is located within 320 kilometers of the border between the United States and Canada.

Exhibit 4-A shows the licensed and proposed 34dbu(F50-10) contours.

Exhibit 4-B is a comparison of the licensed and proposed 34dbu(F50-10) distance to contour of the radials that extend over Canadian Soil. Note the proposed distances extend to lesser distances than the licensed. Therefore, no new overlaps will be created towards any existing or proposed Canadian facility.

EMF believes WOHK will continue to abide by the US-Canadian working agreement.

Exhibit 4-A
Licensed and Proposed 34dbu(F50-10) Contours

WOHK (241)
WOHK.P (241)

WOHK.P
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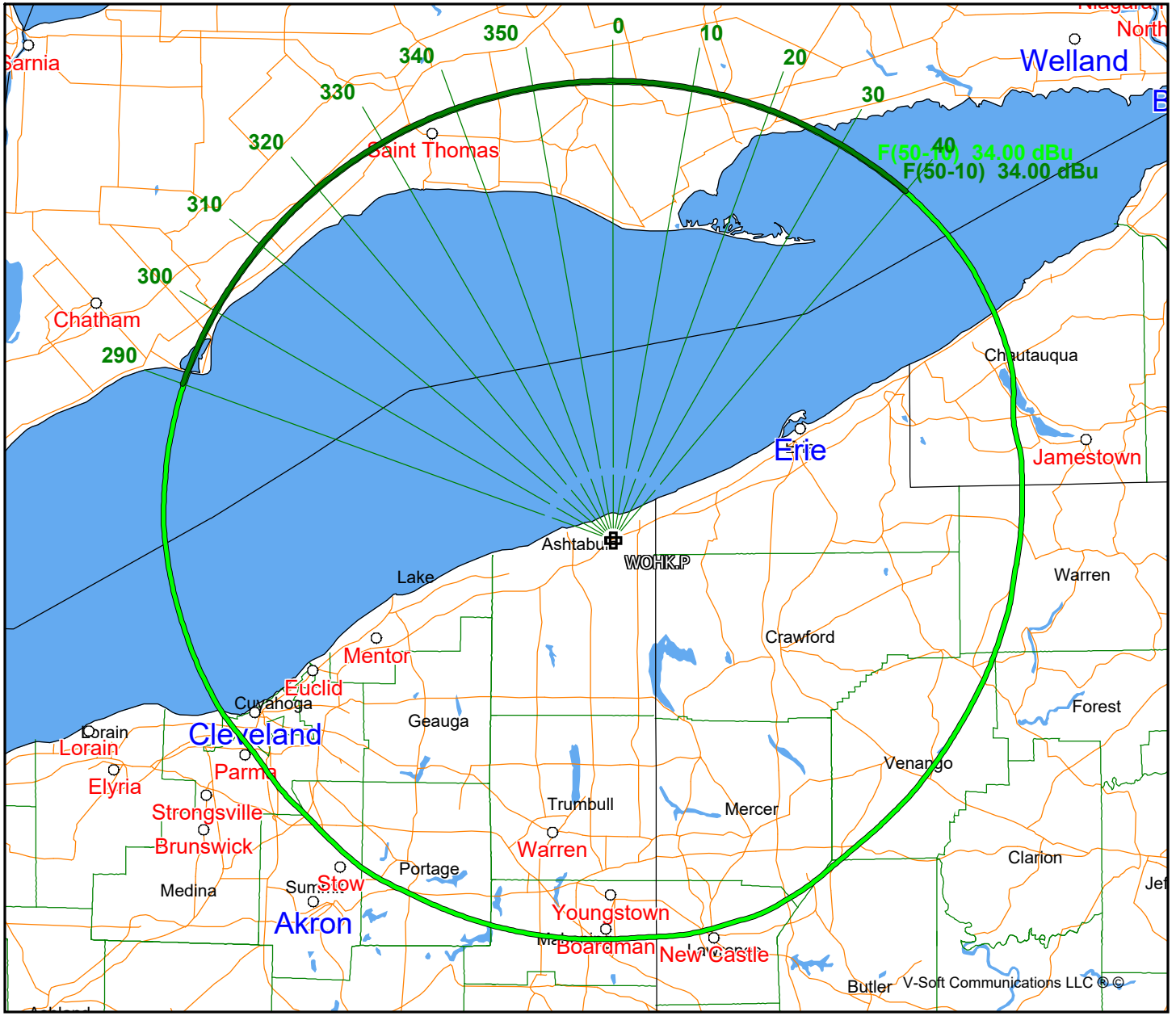

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Distance to Contour Report

Distance to Contour Report Licensed

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 10.0 %
# of Radials Calculated: 360
FCC Matching HAAT Calculation Used
Field Strength: 34.00 dBuV/m

Primary Terrain: GLOBE 30 Second World Database

Transmitter Information:

Call Letters: WOHK
File Number: BLED20171127ABY
Latitude: 41-53-04.20 N
Longitude: 080-38-27.30 W
ERP: 3.30 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 366.0 m
Elevation: 240.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Azimuth (deg)	Distance (km)	HAAT (m)
290.0	112.50	182.2
300.0	112.82	184.8
310.0	112.96	185.8
320.0	113.04	186.4
330.0	113.08	186.8
340.0	112.99	186.1
350.0	112.95	185.7
0.0	112.90	185.4
10.0	112.76	184.3
20.0	112.51	182.3
30.0	112.14	179.5
40.0	111.93	177.9

Distance to Contour Report Proposed

Time Variability: 10.0 %
# of Radials Calculated: 360
FCC Matching HAAT Calculation Used
Field Strength: 34.00 dBuV/m

Primary Terrain: GLOBE 30 Second World Database

Transmitter Information:

Call Letters: WOHK.P
File Number: BLED20171127ABY
Latitude: 41-53-02.10 N
Longitude: 080-38-26.90 W
ERP: 3.20 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 369.8 m
Elevation: 243.8 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Azimuth (deg)	Distance (km)	HAAT (m)
290.0	112.29	185.7
300.0	112.63	188.3
310.0	112.76	189.4
320.0	112.84	190.0
330.0	112.89	190.4
340.0	112.80	189.7
350.0	112.75	189.3
0.0	112.71	188.9
10.0	112.57	187.8
20.0	112.32	185.9
30.0	111.96	183.1
40.0	111.77	181.6

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Environmental Protection

There are two main factors that need to be addressed in order to make sure that the environment around a proposed facility is protected.

1) Significant affects to the environment.

EMF's facility has been constructed on an existing tower (tower ID 1232429) and causes no adverse effects to the surrounding environment at the site.

2) Human exposure to excess levels of radiofrequency radiation.

The WOHK facility has been built utilizing an ERI 2-bay circularly polarized full-wave spaced antenna (EPA Type 3 Rototiller Design).

According to OET 65, "Applicants and licensees should be able to calculate, based on considerations of frequency, power and antenna characteristics the distance from their transmitter where their signal produces an RF field equal to, or greater than, the 5% threshold limit. The applicant or licensee then shares responsibility for compliance in any accessible area or areas within this 5% "contour" where the appropriate limits are found to be exceeded."

The facility's maximum RF contribution to the site is 2.09uW/cm^2 at a distance of 84 meters from the tower, which is 1.04% of the uncontrolled (public) exposure limit.

Therefore, because the facility does not cause an RF field that is equal to or greater than 5% of the 200 uW/cm^2 limit for uncontrolled exposure at any point, the WOHK facility complies with the requirements of OET 65.

EMF will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.