

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

WYXA
Clarksburg, WV

Purpose of Application

The purpose of this minor modification application is to change the coordinates and site elevation due to a change in the antenna structure registration information. No change in the center of radiation above ground or the effective radiated power are proposed.

Channel Study

| REFERENCE | | CH# 211B1- 90.1 MHz, Pwr= 4 kW, HAAT= 210.7 M, COR= 564.7 M | | | | | | | | DISPLAY DATES | |
|---------------|------------|---|--------------|-------------|------------------|--------------|----------------------|---------------------|----------------------------|-------------------------|-------|
| 39 19 08.2 N. | | Average Protected F(50-50)= 36.4 km | | | | | | | | DATA 01-27-21 | |
| 80 23 33.2 W. | | Omni-directional | | | | | | | | SEARCH 02-03-21 | |
| CH CITY | CALL | TYPE | ANT STATE | AZI. <-- | DIST FILE # | LAT. LNG. | Pwr (kW) HAAT (M) | INT (km) COR (M) | PRO (km) LICENSEE | *IN* (Overlap in km) | *OUT* |
| 211B1 | WYXA! | LIC | CN | 63.9 | 0.07 | 39 19 09.30 | 4.000 | | --- | Reference--- | |
| Clarksburg | | | WV | 243.9 | BLED20090603AGE | 80 23 30.30 | 215 | 568 | Educational Media Foundati | | |
| 209D | W209AX! | LIC | CN | 41.4 | 30.91 | 39 31 38.30 | 0.006 | 0.2 | 6.7 | -7.3* | 20.8 |
| Fairmont | | | WV | 221.5 | BLFT19970703TA | 80 09 15.20 | 139 | 500 | Bible Broadcasting Network | | |
| 209A | WVGW | LIC | CN | 264.8 | 35.56 | 39 17 22.20 | 2.350 | 2.1 | 25.0 | -1.7 | 7.2 |
| West Union | | | WV | 84.6 | BLED20110725AGL | 80 48 15.30 | 120 | 430 | Araiza Revival Ministries, | | |
| 210A | WCDE | LIC | CN | 132.3 | 63.87 | 38 55 50.30 | 0.260 | 10.2 | 7.2 | 15.6 | 0.4 |
| Elkins | | | WV | 312.7 | BLED20150601AHJ | 79 50 48.20 | -108 | 629 | Board Of Trustees, Davis & | | |
| 210B | WVNP | LIC | CN | 352.0 | 100.75 | 40 12 58.20 | 25.000 | 65.0 | 40.9 | 0.9 | 4.1 |
| Wheeling | | | WV | 171.9 | BLED19811102AL | 80 33 30.20 | 152 | 484 | West Virginia Educational | | |
| 209A | WLOL-FM | LIC | DCN | 40.5 | 51.33 | 39 40 09.50 | 0.080 | 0.6 | 6.7 | 12.7 | 39.8 |
| Star City | | | WV | 220.8 | BLED20110304AAY | 80 00 10.20 | 56 | 412 | Light Of Life Community, I | | |
| 212B1 | WVPG | LIC | CN | 263.8 | 103.88 | 39 12 44.30 | 9.000 | 50.1 | 31.9 | 18.8 | 18.6 |
| Parkersburg | | | WV | 83.1 | BMLED20110819AAW | 81 35 29.50 | 98 | 331 | West Virginia Educational | | |
| 212B | WAIJ | LIC | DEN | 68.6 | 119.50 | 39 42 14.30 | 10.000 | 59.5 | 40.1 | 23.3 | 24.6 |
| Grantsville | | | MD | 249.4 | BLED19841001DW | 79 05 30.10 | 171 | 922 | American Family Associatio | | |
| 06 1 | WOUC-TV« | | | | | | | | | | |
| Cambridge | | LI | DEN | 318.6 | 115.15 | 41 12 45.20 | 7.110 | 25.7 | 65.4 | 91.1R | 24.1M |
| | | | OH | 138.0 | 0000068363 | 76 57 07.79 | 338 | 655 | | | |
| 210D | WVNP-FM1! | LIC | CN | 339.7 | 88.09 | 40 03 41.30 | 0.041 | 18.5 | 11.2 | 35.6 | 24.1 |
| Wheeling | | | WV | 159.5 | BLFTB20070611ABO | 80 45 07.30 | | 492 | West Virginia Educational | | |
| 211A | WOUZ-FM | LIC | VN | 292.8 | 144.83 | 39 48 50.20 | 3.000 | 73.6 | 22.5 | 34.9 | 26.4 |
| Zanesville | | | OH | 111.8 | BLED19931006KG | 81 57 20.40 | 85 | 354 | Ohio University | | |
| 265A | WZST« | LIC | CN | 57.3 | 46.92 | 39 32 44.30 | 3.000 | 30.5 | 20.7 | 11.5R | 35.4M |
| Westover | | | WV | 237.6 | BLH19830117AQ | 79 55 57.20 | 81 | 533 | Lhtc Media Of West Virgini | | |
| 6 -- | WOUC-TV-A« | | | | | | | | | | |
| Cambridge | | CHA D Y | | 318.6 | 115.17 | 41 12 45.20 | 1.720 | 25.7 | 47.5 | 73.2R | 42.0M |
| | | | OH | 138.0 | DTVBL50141 | 76 57 07.79 | 385 | 699 | | | |
| 208B | WVDS | LIC | DCN | 98.7 | 94.89 | 39 11 06.20 | 10.000 | 4.6 | 48.1 | 52.6 | 42.8 |
| Petersburg | | | WV | 279.4 | BLED20130314ABH | 79 18 14.50 | 320 | 1218 | West Virginia Educational | | |
| 211D | W211BT! | LIC | CN | 270.2 | 148.54 | 39 18 40.40 | 0.038 | 20.0 | 6.0 | 93.0 | 47.4 |
| Athens | | | OH | 89.1 | BLFT20171201ADT | 82 07 10.30 | | 306 | Spirit Communications, Inc | | |

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference Zone= - Zone 1, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"-"affixed to 'IN' or 'OUT' values = site inside restricted contour.
« = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue: Canada

Overlap Report

WYXA (FIN 39870) 211B1 Clarksburg, WV has previously applied and been granted permission for interference received from second adjacent station WVGTV (FIN 174626) 209A West Union, WV. The interference received request can be seen in FCC File BPED-20090305AAS with the subsequent license grant in FCC File BLED-20090603AGE.

This proposed change in coordinates and site elevation will not cause any increase in the previously permitted overlap area. The area of received interference will be reduced from 5.56 sq km to 4.65 sq km as seen in Exhibits 2-B and 2-C. The number of persons in the currently licensed and the proposed interference received areas remains unchanged with a population count of 94.

Educational Media Foundation respectfully requests this previously permitted interference received from WVGTV continues to be permitted in this corrective filing.

Overlap Population Report
WYXA (211) / WVGX (209)

Overlap Area Type: Intersection

Areas Included:

WYXA (211): FCC F(50-50) 60.00 dBu (FCC HAAT)

WVGX (209): FCC F(50-10) 100.00 dBu (FCC HAAT)

Population Database: 2010 US Census (PL)

Total Population: 94

Overlap Area: 5.56 sq. km(Area determined using 0.008 km cells)

| Area Description | Total Population | Total Area [sq. km] | Percent Population | Percent Area |
|------------------------------|------------------|---------------------|--------------------|--------------|
| WYXA (211): FCC F(50-50) 60 | 170,589 | 4,141 | 0.1 % | 0.1 % |
| WVGX (209): FCC F(50-10) 100 | 267 | 15.7 | 35.2 % | 35.4 % |

WYXA

BLED20090603AGE

Latitude: 39-19-09.30 N

Longitude: 080-23-30.30 W

ERP: 4.00 kW

Channel: 211

Frequency: 90.1 MHz

AMSL Height: 568.0 m

Elevation: 483.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

WVGX

BLED20110725AGL

Latitude: 39-17-22.20 N

Longitude: 080-48-15.30 W

ERP: 2.35 kW

Channel: 209

Frequency: 89.7 MHz

AMSL Height: 429.8 m

Elevation: 396.3 m

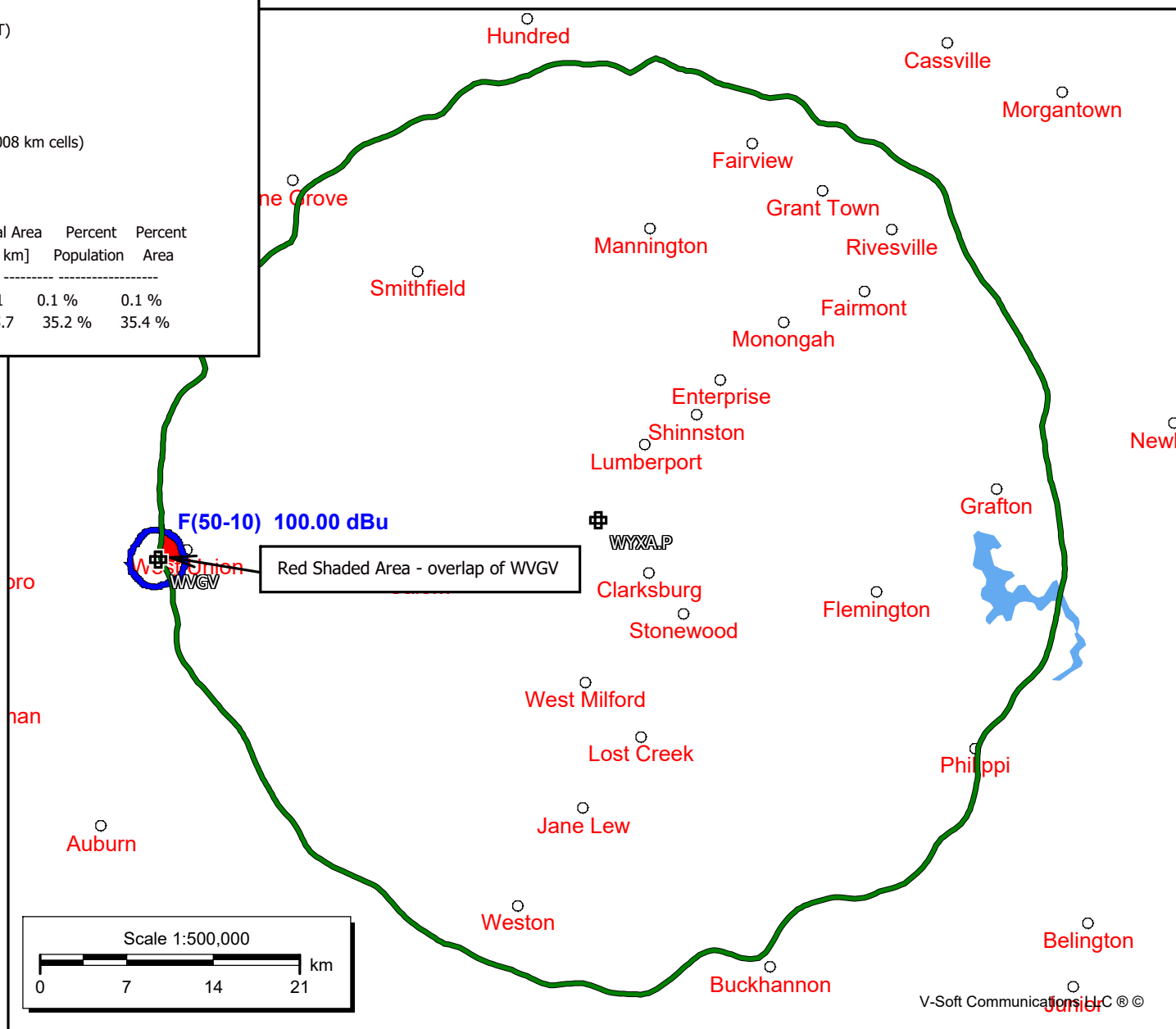
Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

Exhibit 2-B

WYXA Licensed Overlap Contour of WVGX



Overlap Population Report
WYXA.P (211) / WVGX (209)

Overlap Area Type: Intersection

Areas Included:

WYXA.P (211): FCC F(50-50) 60.00 dBu (FCC HAAT)

WVGX (209): FCC F(50-10) 100.00 dBu (FCC HAAT)

Population Database: 2010 US Census (PL)

Total Population: 94

Overlap Area: 4.65 sq. km (Area determined using 0.007 km cells)

| Area Description | Total Population | Total Area [sq. km] | Percent Population | Percent Area |
|-------------------------------|------------------|---------------------|--------------------|--------------|
| WYXA.P (211): FCC F(50-50) 60 | 169,569 | 4,083 | 0.1 % | 0.1 % |
| WVGX (209): FCC F(50-10) 100 | 267 | 15.69 | 35.2 % | 29.6 % |

WYXA.P

BLED20090603AGE

Latitude: 39-19-08.20 N

Longitude: 080-23-33.20 W

ERP: 4.00 kW

Channel: 211

Frequency: 90.1 MHz

AMSL Height: 564.7 m

Elevation: 479.7 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

WVGX

BLED20110725AGL

Latitude: 39-17-22.20 N

Longitude: 080-48-15.30 W

ERP: 2.35 kW

Channel: 209

Frequency: 89.7 MHz

AMSL Height: 429.8 m

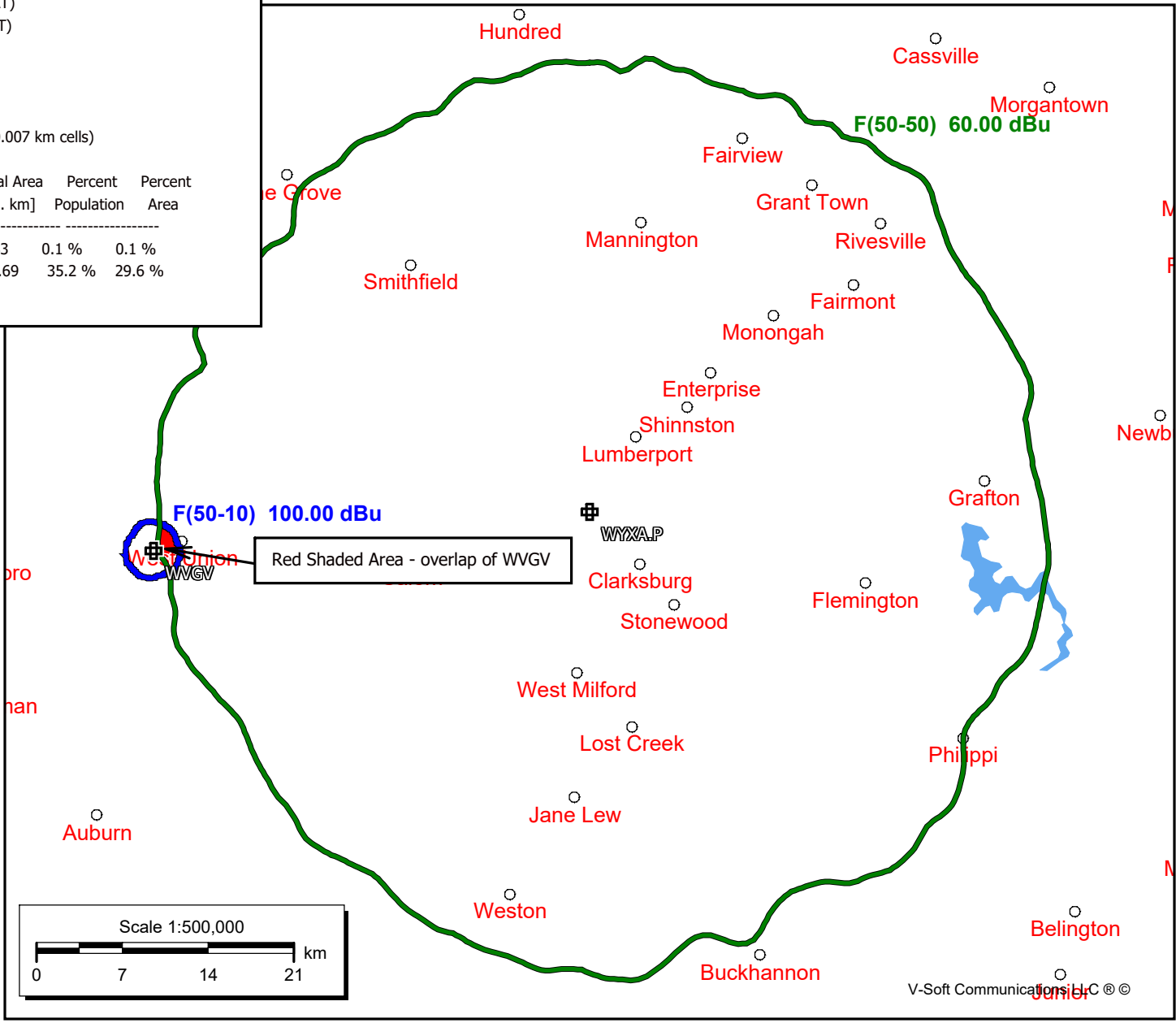
Elevation: 396.3 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

Exhibit 2-C
WYXA Proposed Overlap Contour of WVGX



Compliance with International Agreement

The proposed facility contemplated herein is located approximately 313km from the common border between the United States and Canada. The proposed 34dbu interfering contour can be seen in Exhibit 3-A. As can be seen in Exhibit 3-A, at no point does the interfering contour generated by the proposed facility (34dBu F(50,10) extend beyond the US-Canadian border.

Therefore, the proposed facility will cause interference at no point within the boundaries of Canada.

Exhibit 3-A
US-Canadian International Compliance

WYXA.P

BLED20090603AGE

Latitude: 39-19-08.20 N

Longitude: 080-23-33.20 W

ERP: 4.00 kW

Channel: 211

Frequency: 90.1 MHz

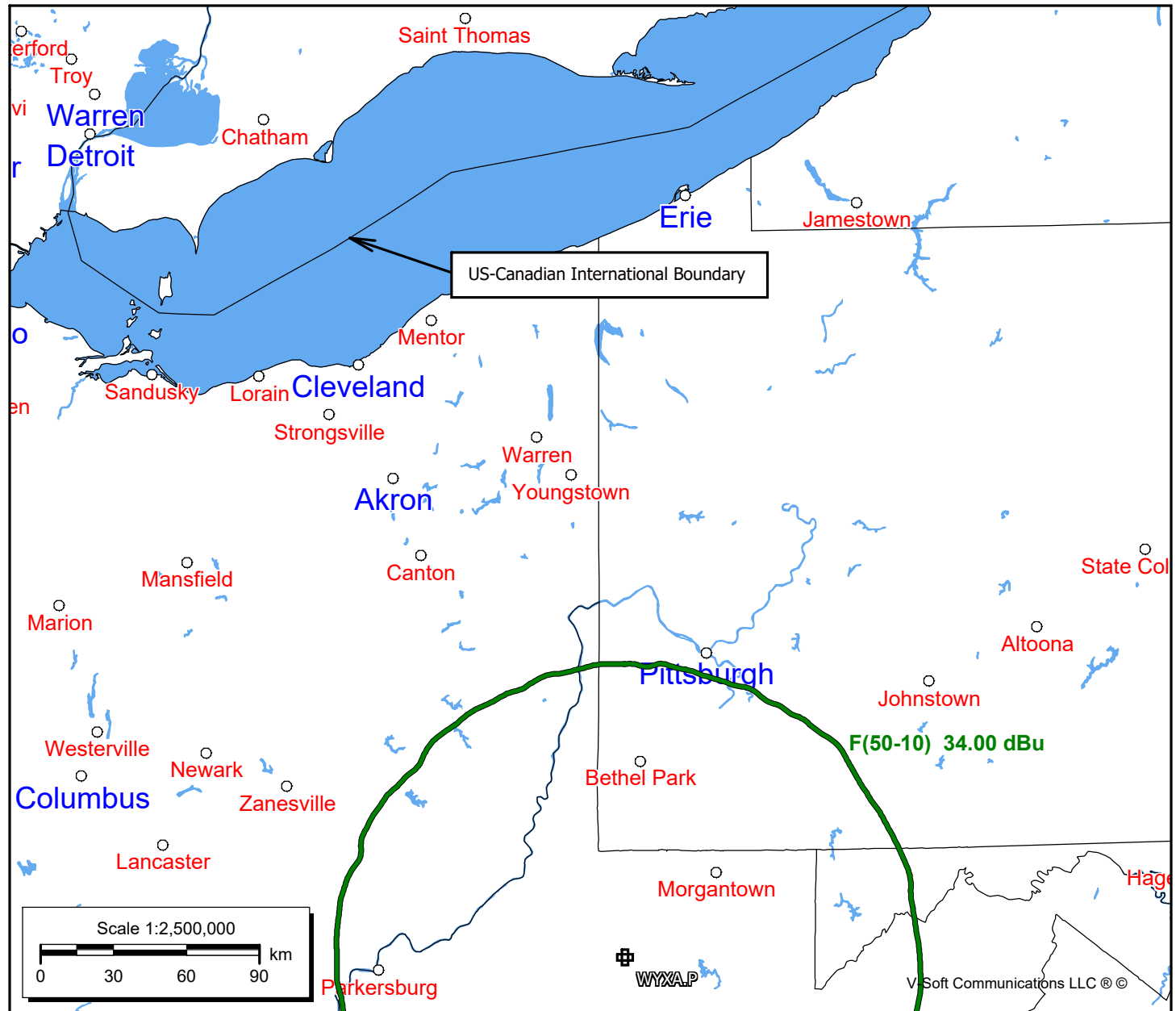
AMSL Height: 564.7 m

Elevation: 479.7 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None



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 proposed facility will be constructed on an existing tower (tower ID 1034307) and will cause no adverse effects to the surrounding environment at the site.

2) Human exposure to excess levels of radiofrequency radiation.

The proposed facility is to be built using a 3-bay circularly polarized full-wave spaced antenna.

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."

As can be seen in Exhibit 22A, the proposed facility's maximum contribution to RF on the site is 3.88uW/cm^2 at a distance of 42 meters from the tower, which is 1.94% of the uncontrolled (public) exposure limit.

Therefore, because the proposed facility will 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 proposed 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.

RF Analysis: Clarksburg, WV
WCKU
211
B1
WCKU

Site type: Application

Channel: 211

Class: B1

ERP: 4 kw

Antenna: ERI

rototiller

3-bay

full wave

COR AGL: 85 m

Polarization: circular

| Distance From Tower (m) | WCKU Facility | Total RF (uW/cm2) | Percent of 200uW/cm2 |
|-------------------------------|------------------|-------------------------|-------------------------|
| 0 | 1.1097 | 1.11 | 0.55 |
| 1 | 1.1096 | 1.11 | 0.55 |
| 2 | 1.1091 | 1.11 | 0.55 |
| 3 | 1.1083 | 1.11 | 0.55 |
| 4 | 1.1073 | 1.11 | 0.55 |
| 5 | 1.1058 | 1.11 | 0.55 |
| 6 | 1.1041 | 1.10 | 0.55 |
| 7 | 1.1019 | 1.10 | 0.55 |
| 8 | 1.1482 | 1.15 | 0.57 |
| 9 | 1.2339 | 1.23 | 0.62 |
| 10 | 1.3216 | 1.32 | 0.66 |
| 11 | 1.4113 | 1.41 | 0.71 |
| 12 | 1.5027 | 1.50 | 0.75 |
| 13 | 1.5954 | 1.60 | 0.80 |
| 14 | 1.6893 | 1.69 | 0.84 |
| 15 | 1.7843 | 1.78 | 0.89 |
| 16 | 1.8975 | 1.90 | 0.95 |
| 17 | 2.0121 | 2.01 | 1.01 |
| 18 | 2.1277 | 2.13 | 1.06 |
| 19 | 2.2438 | 2.24 | 1.12 |
| 20 | 2.3598 | 2.36 | 1.18 |
| 21 | 2.4755 | 2.48 | 1.24 |
| 22 | 2.5901 | 2.59 | 1.30 |
| 23 | 2.7013 | 2.70 | 1.35 |
| 24 | 2.8035 | 2.80 | 1.40 |
| 25 | 2.9029 | 2.90 | 1.45 |
| 26 | 2.9991 | 3.00 | 1.50 |
| 27 | 3.0916 | 3.09 | 1.55 |
| 28 | 3.1798 | 3.18 | 1.59 |
| 29 | 3.2633 | 3.26 | 1.63 |
| 30 | 3.3417 | 3.34 | 1.67 |
| 31 | 3.4150 | 3.41 | 1.71 |
| 32 | 3.4917 | 3.49 | 1.75 |
| 33 | 3.5618 | 3.56 | 1.78 |
| 34 | 3.6249 | 3.62 | 1.81 |
| 35 | 3.6805 | 3.68 | 1.84 |
| 36 | 3.7282 | 3.73 | 1.86 |
| 37 | 3.7679 | 3.77 | 1.88 |
| 38 | 3.7992 | 3.80 | 1.90 |
| 39 | 3.8219 | 3.82 | 1.91 |
| 40 | 3.8421 | 3.84 | 1.92 |
| 41 | 3.8637 | 3.86 | 1.93 |
| 42 | 3.8757 | 3.88 | 1.94 |
| 43 | 3.8781 | 3.88 | 1.94 |
| 44 | 3.8709 | 3.87 | 1.94 |
| 45 | 3.8540 | 3.85 | 1.93 |

| Distance From Tower (m) | WCKU Facility | Total RF (uW/cm2) | Percent of 200uW/cm2 |
|-------------------------------|------------------|-------------------------|-------------------------|
| 46 | 3.8277 | 3.83 | 1.91 |
| 47 | 3.7921 | 3.79 | 1.90 |
| 48 | 3.7474 | 3.75 | 1.87 |
| 49 | 3.6939 | 3.69 | 1.85 |
| 50 | 3.6455 | 3.65 | 1.82 |
| 51 | 3.5890 | 3.59 | 1.79 |
| 52 | 3.5239 | 3.52 | 1.76 |
| 53 | 3.4504 | 3.45 | 1.73 |
| 54 | 3.3691 | 3.37 | 1.68 |
| 55 | 3.2807 | 3.28 | 1.64 |
| 56 | 3.1856 | 3.19 | 1.59 |
| 57 | 3.0845 | 3.08 | 1.54 |
| 58 | 2.9780 | 2.98 | 1.49 |
| 59 | 2.8667 | 2.87 | 1.43 |
| 60 | 2.7435 | 2.74 | 1.37 |
| 61 | 2.6100 | 2.61 | 1.30 |
| 62 | 2.4757 | 2.48 | 1.24 |
| 63 | 2.3413 | 2.34 | 1.17 |
| 64 | 2.2073 | 2.21 | 1.10 |
| 65 | 2.0743 | 2.07 | 1.04 |
| 66 | 1.9429 | 1.94 | 0.97 |
| 67 | 1.8134 | 1.81 | 0.91 |
| 68 | 1.6865 | 1.69 | 0.84 |
| 69 | 1.5625 | 1.56 | 0.78 |
| 70 | 1.4419 | 1.44 | 0.72 |
| 71 | 1.3250 | 1.32 | 0.66 |
| 72 | 1.2117 | 1.21 | 0.61 |
| 73 | 1.1027 | 1.10 | 0.55 |
| 74 | 0.9984 | 1.00 | 0.50 |
| 75 | 0.8991 | 0.90 | 0.45 |
| 76 | 0.8049 | 0.80 | 0.40 |
| 77 | 0.7160 | 0.72 | 0.36 |
| 78 | 0.6324 | 0.63 | 0.32 |
| 79 | 0.5543 | 0.55 | 0.28 |
| 80 | 0.4816 | 0.48 | 0.24 |
| 81 | 0.4144 | 0.41 | 0.21 |
| 82 | 0.3527 | 0.35 | 0.18 |
| 83 | 0.2964 | 0.30 | 0.15 |
| 84 | 0.2455 | 0.25 | 0.12 |
| 85 | 0.1999 | 0.20 | 0.10 |
| 86 | 0.1592 | 0.16 | 0.08 |
| 87 | 0.1236 | 0.12 | 0.06 |
| 88 | 0.0930 | 0.09 | 0.05 |
| 89 | 0.0671 | 0.07 | 0.03 |
| 90 | 0.0458 | 0.05 | 0.02 |
| 91 | 0.0288 | 0.03 | 0.01 |
| 92 | 0.0159 | 0.02 | 0.01 |
| 93 | 0.0070 | 0.01 | 0.00 |
| 94 | 0.0018 | 0.00 | 0.00 |
| 95 | 0.0000 | 0.00 | 0.00 |
| 96 | 0.0015 | 0.00 | 0.00 |
| 97 | 0.0060 | 0.01 | 0.00 |
| 98 | 0.0132 | 0.01 | 0.01 |
| 99 | 0.0231 | 0.02 | 0.01 |
| 100 | 0.0352 | 0.04 | 0.02 |