

Consolidated Engineering Report

Proposed New FM Translator
Auction 100 – AM Revitalization

To be paired with:
WOKR-AM (Facility 88676)

95.5 MHz
Canandaigua, NY

Genesee Media Corporation
("Applicant")

October 4, 2018

Prepared by:

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Proposed Facility Information

| | |
|--|------------------------|
| Coordinates: | 42-53-20 N |
| 77-19-09 W (NAD27) | |
| Antenna Structure Registration Number: | 1025934 |
| Channel: | 238 (95.5 MHz) |
| Site Height Above Sea Level: | 268.2 m |
| Height of Radiation Center Above Ground Level: | 37.0 m (Vertical Only) |
| Center Radiation Above Sea Level AMSL: | 305.0 m |
| Antenna Height Above Average Terrain (HAAT): | 49.4 m |
| Effective Radiated Power: | 0.250 kW (H/V) |
| Antenna ID: | SCA Model CA2-FM-V |

Translator is to be a fill-in translator, fed over the air, and to rebroadcast WOKR-AM (Class B), facility number 88676.

Applicant has coordinated with owner of W283BF and will use the existing broadband antenna and isocoupler mounted on the WOKR-AM tower. No changes will be made to the WOKR-AM antenna system in building this proposed facility. Owner of W283BF will has ceased using this site upon building construction permit from application BPFT-20170410AAI.

| | |
|-----------------------------------|-----------------|
| TRANSMISSION LINE: | ANDREW LDF4-50A |
| LENGTH OF LINE: | 45.7 METERS |
| LOSS IN DB/100 METERS AT 95.5MHZ: | 1.001 dB |
| LINE EFFICIENCY AT 95.5MHZ: | 79.42% |
| LOSS IN LINE | 2.190 dB |
| ANTENNA MAKE/MODEL: | SCALA CA2-V |
| ANTENNA POWER GAIN: | 2.56 |

| | | |
|-----------------|------|----|
| ERP | 250 | W |
| ANTENNA GAIN | 2.56 | dB |
| FEED TO ANTENNA | 97.7 | W |

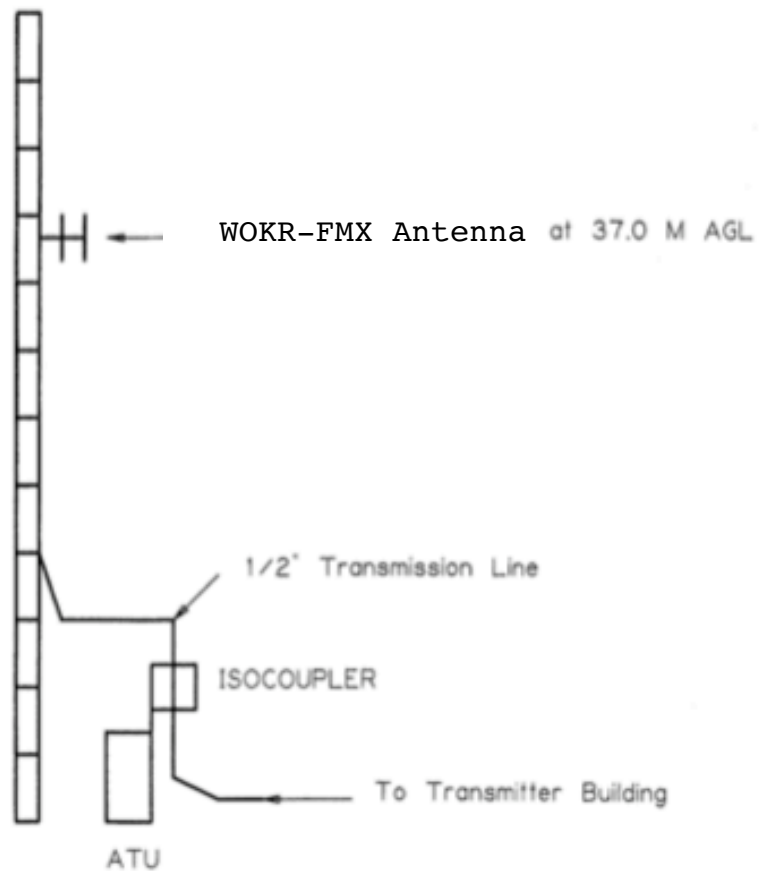
| | | |
|-----------------|------|--------|
| COAXIAL CABLE | | |
| LENGTH | 45.7 | Meters |
| CABLE LOSS | 2.19 | dB |
| ISOCOUPLER LOSS | 0.1 | dB |

| | | |
|--------------------------|---------------|----------|
| SYSTEM LOSS | -2.290 | dB |
| TRANSMITTER POWER | 165.46 | W |

*ISOCOUPLER: KINTRONIC LABS FMC-1.5 WITH INSERTION LOSS ON CENTER FREQUENCY OF .1DB.

WOKR-AM Tower #2

This Drawing Not To Scale



WOKR-FMX Installation Sketch

Applicant is installing on existing broadband installation from W283BF. No modifications will be made to the WOKR antenna system.

Diagram from BLFT-20080602ABG proof of performance

Frequency Study

According to CFR 47 §74.1204(a), translators are required to protect all existing FM stations from interference due to overlap of the protected contours of the existing stations with the interfering contours of the new translators.

| 10/03/2018 | | Genesee Media Corporation | | | | | | Page 1 | |
|---|--|------------------------------|-------|--------------|------|----------------------|----------------|--------------|-------|
| FM Study for: | | FCC Database Date: 9/28/2018 | | | | | | 42-53-20 | |
| Location: CANANDAIGUA, NY | | Channel Class: | | | | | | 77-19-09 | |
| [*] by HAAT indicates calculated as missing in database. | | | | | | | | | |
| Call | City, State | Chan | Cl. | Freq | kW | Latitude | Dist. | Required | |
| Status | Proponent | File Number | | | HAAT | Longitude | Azm. | Clear(km) | Site |
| >>>>>> Study For Channel 238 95.5 mHz <<<<<<< | | | | | | | | | |
| WAIO LIC | HONEOYE FALLS, NY Fac. No. 24958 | 236 B BLH-20010530AAW | 95.1 | 50.0 | 146 | 43-02-01 77-25-18 | 18.1 332.6 | 67 -48.9 | SHORT |
| NEW APP | CANANDAIGUA, NY Fac. No. 202662 | 238 D BNPFT-20180129ABG | 95.5 | .250+ 47 | | 42-53-20 77-19-09 | 0.0 0.0 | 44 -44.0 | SHORT |
| CJBC1F | BELLEVILLE, ON Fac. No. 95393 SPECIAL NEGOTIATED | 238 C1 - | 95.5 | 25.0 135 | | 44-18-45 77-12-25 | 158.4 3.2 | 182 -23.6 | SHORT |
| W239BF LIC | ROCHESTER, NY Fac. No. 157394 | 239 D BLFT-20140606AAH | 95.7 | .250+ 138 | | 43-10-37 77-28-39 | 34.5 338.1 | 32 2.5 | CLOSE |
| WFIZ LIC | ODESSA, NY Fac. No. 36406 | 238 A BLH-20080916ABN | 95.5 | .850+ 265 | | 42-23-13 76-40-11 | 77.1 136.1 | 73 4.1 | CLOSE |
| W238DE CP | SPENCERPORT, NY Fac. No. 202540 | 238 D BNPFT-20180419ABQ | 95.5 | .250+ 89 | | 43-09-50 77-47-02 | 48.7 309.0 | 44 4.7 | CLOSE |
| WRFZLP LIC | ROCHESTER, NY Fac. No. 192286 | 292 L1 BLL-20160531AAE | 106.3 | .019 69 | | 43-08-24 77-35-52 | 36.0 320.9 | 29 7.0 | CLOSE |
| W241CN LIC | PENN YAN, NY Fac. No. 138958 | 241 D BLFT-20171214AAJ | 96.1 | .190+ 266 | | 42-37-13 77-15-16 | 30.3 169.9 | 14 16.3 | CLEAR |
| NEW APP | ROCHESTER, NY Fac. No. 202122 | 241 D BNPFT-20180130AGL | 96.1 | .099+ 142 | | 43-08-06 77-35-03 | 34.8 321.8 | 14 20.8 | CLEAR |
| W292FG CP | GENEVA, NY Fac. No. 200205 | 292 D BNPFT-20171208AAS | 106.3 | .250 60 | | 42-51-37 77-00-59 | 24.9 97.2 | 0 24.9 | CLEAR |
| W240DO LIC | GENEVA, NY Fac. No. 141061 | 240 D BLFT-20170619AAP | 95.9 | .250+ 129 | | 42-48-22 76-50-47 | 39.7 103.2 | 14 25.7 | CLEAR |
| W239BK LIC | BATH, NY Fac. No. 154350 | 239 D BLFT-20080324AAK | 95.7 | .099+ -39 | | 42-21-17 77-21-50 | 59.5 183.6 | 32 27.5 | CLEAR |
| WAQXFM LIC | MANLIUS, NY Fac. No. 52606 | 239 B1 BLH-19880913KC | 95.7 | 25.0 91 | | 43-00-25 76-05-38 | 100.9 82.1 | 68 32.9 | CLEAR |
| WLDMLP LIC | SANITARIA SPRING, NY Fac. No. 131507 | 239 L1 BLL-20100412AAH | 95.7 | .095 31 | | 42-09-17 75-51-36 | 145.0 123.7 | 111 34.0 | CLEAR |
| ALLOC | BELLEVILLE, ON - specially negotiated | 238 C1 - | 95.5 | | | 44-16-04 77-30-47 | 154.0 354.2 | 117 37.0 | CLEAR |
| short-spaced allotment limited to 100kW ERP and 160m HAAT | | | | | | | | | |

1. WAIO is second adjacent, and the 40 dB ratio of desired-to-undesired signal shall be studied in more detail.
2. CJBC1F is Canadian and the 34 dBu interfering contour will be studied to demonstrate that it does not cross Canadian soil.
3. W239BF is first adjacent, and its 60 dBu protected contour shall be studied with respect to the 54 dBu interfering contour of the proposed facility.
4. W283DE co-channel adjacent, and its 60 dBu protected contour shall be studied with respect to the 40 dBu interfering contour of the proposed facility.
5. WFIZ is co-channel adjacent, and its 60 dBu protected contour shall be studied with respect to the 40 dBu interfering contour of the proposed facility.

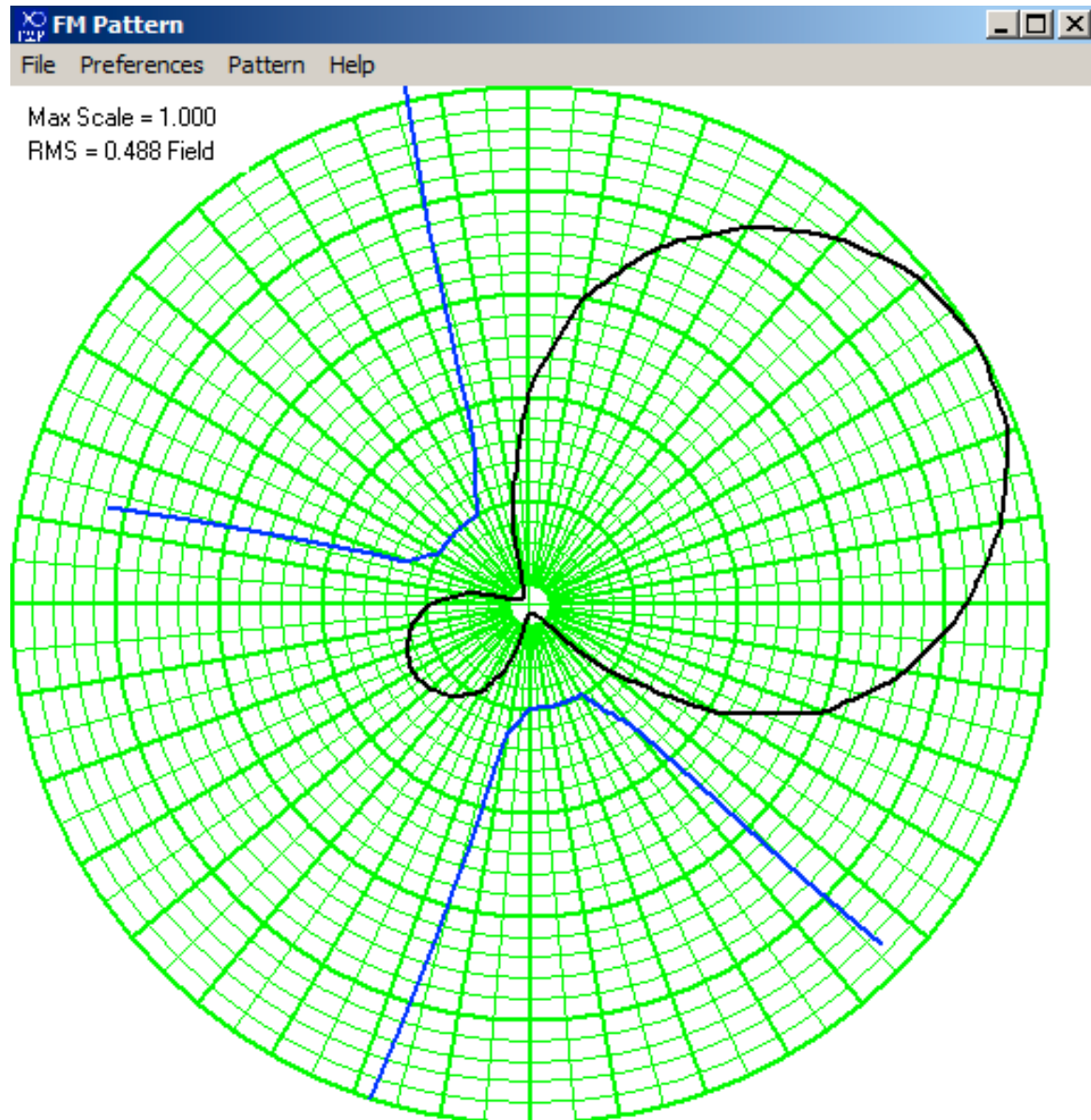
Protections

Genesee Media Corporation
Maximum Effective Radiated Power
For W238NEW at 42-53-20 77-19-09
Rad Ctr: 305 meters AMSL
Based on 1 degree study near direct line between sites
with data stored at nearest 5 degree azimuth.

| Azimuth (Deg) | Max ERP (kW) | Station | Contour | W238NEW | Curve |
|------------------|-----------------|---------|---------|---------|-----------|
| 0 | 0.789 | W239BF | 60 | 54 | F(50, 50) |
| 120 | 2.133 | WFIZ | 60 | 40 | F(50, 50) |
| 125 | 1.994 | WFIZ | 60 | 40 | F(50, 50) |
| 130 | 2.048 | WFIZ | 60 | 40 | F(50, 50) |
| 135 | 2.009 | WFIZ | 60 | 40 | F(50, 50) |
| 140 | 1.951 | WFIZ | 60 | 40 | F(50, 50) |
| 145 | 1.938 | WFIZ | 60 | 40 | F(50, 50) |
| 150 | 1.954 | WFIZ | 60 | 40 | F(50, 50) |
| 155 | 2.706 | WFIZ | 60 | 40 | F(50, 50) |
| 160 | 4.068 | WFIZ | 60 | 40 | F(50, 50) |
| 305 | 0.446 | W283DE | 60 | 40 | F(50, 50) |
| 310 | 0.428 | W283DE | 60 | 40 | F(50, 50) |
| 315 | 0.501 | W283DE | 60 | 40 | F(50, 50) |
| 320 | 0.419 | W283DE | 60 | 40 | F(50, 50) |
| 325 | 0.407 | W239BF | 60 | 54 | F(50, 50) |
| 330 | 0.448 | W239BF | 60 | 54 | F(50, 50) |
| 335 | 0.418 | W239BF | 60 | 54 | F(50, 50) |
| 340 | 0.337 | W239BF | 60 | 54 | F(50, 50) |
| 345 | 0.339 | W239BF | 60 | 54 | F(50, 50) |
| 350 | 0.364 | W239BF | 60 | 54 | F(50, 50) |
| 355 | 0.524 | W239BF | 60 | 54 | F(50, 50) |

At no point is a protection required to any critical signal.

Directional Antenna Pattern



Genesee Media Corporation
FM Contour Distances
W238NEW

| Azi. Deg. | ERP kW | HAAT m | 118 dBu km | 60 dBu km | 54 dBu km | 40 dBu km |
|--------------|-----------|-----------|------------------|-----------------|-----------------|-----------------|
| 0 | 0.034 | 108 | 0.2 | 8.2 | 11.5 | 27.28 |
| 5 | 0.049 | 107 | 0.2 | 8.9 | 12.6 | 29.92 |
| 10 | 0.072 | 110 | 0.2 | 10.0 | 14.1 | 33.52 |
| 15 | 0.088 | 110 | 0.2 | 10.5 | 14.9 | 35.36 |
| 20 | 0.108 | 107 | 0.2 | 10.9 | 15.5 | 36.79 |
| 25 | 0.123 | 107 | 0.2 | 11.2 | 16.1 | 38.10 |
| 30 | 0.141 | 106 | 0.3 | 11.5 | 16.7 | 39.26 |
| 35 | 0.155 | 105 | 0.3 | 11.8 | 17.1 | 40.05 |
| 40 | 0.170 | 105 | 0.3 | 12.0 | 17.6 | 41.03 |
| 45 | 0.181 | 104 | 0.3 | 12.2 | 17.8 | 41.46 |
| 50 | 0.192 | 102 | 0.3 | 12.2 | 17.9 | 41.72 |
| 55 | 0.196 | 97 | 0.2 | 12.0 | 17.4 | 40.92 |
| 60 | 0.200 | 92 | 0.3 | 11.7 | 17.0 | 40.02 |
| 65 | 0.196 | 86 | 0.3 | 11.3 | 16.2 | 38.45 |
| 70 | 0.192 | 79 | 0.3 | 10.8 | 15.3 | 36.59 |
| 75 | 0.181 | 72 | 0.3 | 10.2 | 14.4 | 34.23 |
| 80 | 0.170 | 69 | 0.3 | 9.8 | 13.9 | 32.89 |
| 85 | 0.155 | 64 | 0.3 | 9.3 | 13.1 | 30.73 |
| 90 | 0.141 | 61 | 0.3 | 8.8 | 12.5 | 29.23 |
| 95 | 0.123 | 58 | 0.3 | 8.3 | 11.8 | 27.57 |
| 100 | 0.108 | 55 | 0.3 | 7.8 | 11.1 | 25.97 |
| 105 | 0.088 | 52 | 0.3 | 7.2 | 10.3 | 24.00 |
| 110 | 0.072 | 48 | 0.2 | 6.5 | 9.4 | 21.87 |
| 115 | 0.049 | 43 | 0.2 | 5.6 | 8.0 | 18.49 |
| 120 | 0.034 | 38 | 0.2 | 4.8 | 6.8 | 15.39 |
| 125 | 0.015 | 36 | 0.1 | 3.8 | 5.4 | 12.25 |
| 130 | 0.007 | 34 | 0.1 | 3.1 | 4.3 | 9.80 |
| 135 | 0.001 | 35 | 0.1 | 2.0 | 2.8 | 6.21 |
| 140 | 0.000 | 38 | 0.0 | 1.3 | 1.9 | 4.10 |
| 145 | 0.000 | 40 | 0.1 | 1.3 | 1.7 | 3.80 |
| 150 | 0.000 | 43 | 0.0 | 1.2 | 1.6 | 3.57 |
| 155 | 0.000 | 41 | 0.1 | 1.2 | 1.6 | 3.48 |
| 160 | 0.000 | 37 | 0.0 | 1.1 | 1.5 | 3.30 |
| 165 | 0.000 | 33 | 0.0 | 1.0 | 1.4 | 3.12 |
| 170 | 0.000 | 30 | 0.0 | 1.0 | 1.4 | 2.98 |
| 175 | 0.000 | 31 | 0.0 | 1.0 | 1.4 | 3.02 |

W238NEW Pattern
Horizontal Plane Pattern
Pattern RMS: .4881 Field

| Azimuth | Field | dBk | ERP(kW) | Azimuth | Field | dBk | ERP(kW) |
|---------|-------|---------|---------|---------|-------|---------|---------|
| 0 | 0.410 | -13.76* | 0.04 | 180 | 0.020 | -40.00 | 0.00 |
| 5 | 0.496 | -12.11* | 0.06 | 185 | 0.022 | -39.03 | 0.00 |
| 10 | 0.600 | -10.46* | 0.09 | 190 | 0.025 | -38.06 | 0.00 |
| 15 | 0.664 | -9.58 | 0.11 | 195 | 0.056 | -31.07* | 0.00 |
| 20 | 0.735 | -8.69 | 0.14 | 200 | 0.125 | -24.08* | 0.00 |
| 25 | 0.786 | -8.11 | 0.15 | 205 | 0.156 | -22.15* | 0.01 |
| 30 | 0.840 | -7.54 | 0.18 | 210 | 0.195 | -20.22* | 0.01 |
| 35 | 0.881 | -7.13 | 0.19 | 215 | 0.212 | -19.50 | 0.01 |
| 40 | 0.923 | -6.72 | 0.21 | 220 | 0.230 | -18.79 | 0.01 |
| 45 | 0.951 | -6.46 | 0.23 | 225 | 0.240 | -18.42 | 0.01 |
| 50 | 0.980 | -6.20 | 0.24 | 230 | 0.250 | -18.06 | 0.02 |
| 55 | 0.990 | -6.11 | 0.25 | 235 | 0.255 | -17.89 | 0.02 |
| 60 | 1.000 | -6.02 | 0.25 | 240 | 0.260 | -17.72 | 0.02 |
| 65 | 0.990 | -6.11 | 0.25 | 245 | 0.255 | -17.89 | 0.02 |
| 70 | 0.980 | -6.20 | 0.24 | 250 | 0.250 | -18.06 | 0.02 |
| 75 | 0.951 | -6.46 | 0.23 | 255 | 0.240 | -18.42 | 0.01 |
| 80 | 0.923 | -6.72 | 0.21 | 260 | 0.230 | -18.79 | 0.01 |
| 85 | 0.881 | -7.13 | 0.19 | 265 | 0.212 | -19.50 | 0.01 |
| 90 | 0.840 | -7.54 | 0.18 | 270 | 0.195 | -20.22 | 0.01 |
| 95 | 0.786 | -8.11 | 0.15 | 275 | 0.156 | -22.15* | 0.01 |
| 100 | 0.735 | -8.69 | 0.14 | 280 | 0.125 | -24.08* | 0.00 |
| 105 | 0.664 | -9.58 | 0.11 | 285 | 0.056 | -31.07* | 0.00 |
| 110 | 0.600 | -10.46 | 0.09 | 290 | 0.025 | -38.06* | 0.00 |
| 115 | 0.496 | -12.11* | 0.06 | 295 | 0.022 | -39.03 | 0.00 |
| 120 | 0.410 | -13.76* | 0.04 | 300 | 0.020 | -40.00 | 0.00 |
| 125 | 0.275 | -17.22* | 0.02 | 305 | 0.020 | -40.00 | 0.00 |
| 130 | 0.185 | -20.68* | 0.01 | 310 | 0.020 | -40.00 | 0.00 |
| 135 | 0.074 | -28.58* | 0.00 | 315 | 0.020 | -40.00 | 0.00 |
| 140 | 0.030 | -36.48* | 0.00 | 320 | 0.020 | -40.00 | 0.00 |
| 145 | 0.024 | -38.24* | 0.00 | 325 | 0.020 | -40.00 | 0.00 |
| 150 | 0.020 | -40.00* | 0.00 | 330 | 0.020 | -40.00 | 0.00 |
| 155 | 0.020 | -40.00 | 0.00 | 335 | 0.024 | -38.24* | 0.00 |
| 160 | 0.020 | -40.00 | 0.00 | 340 | 0.030 | -36.48* | 0.00 |
| 165 | 0.020 | -40.00 | 0.00 | 345 | 0.074 | -28.58* | 0.00 |
| 170 | 0.020 | -40.00 | 0.00 | 350 | 0.185 | -20.68* | 0.01 |
| 175 | 0.020 | -40.00 | 0.00 | 355 | 0.275 | -17.22* | 0.02 |

Contour Distances for Proposed Facility

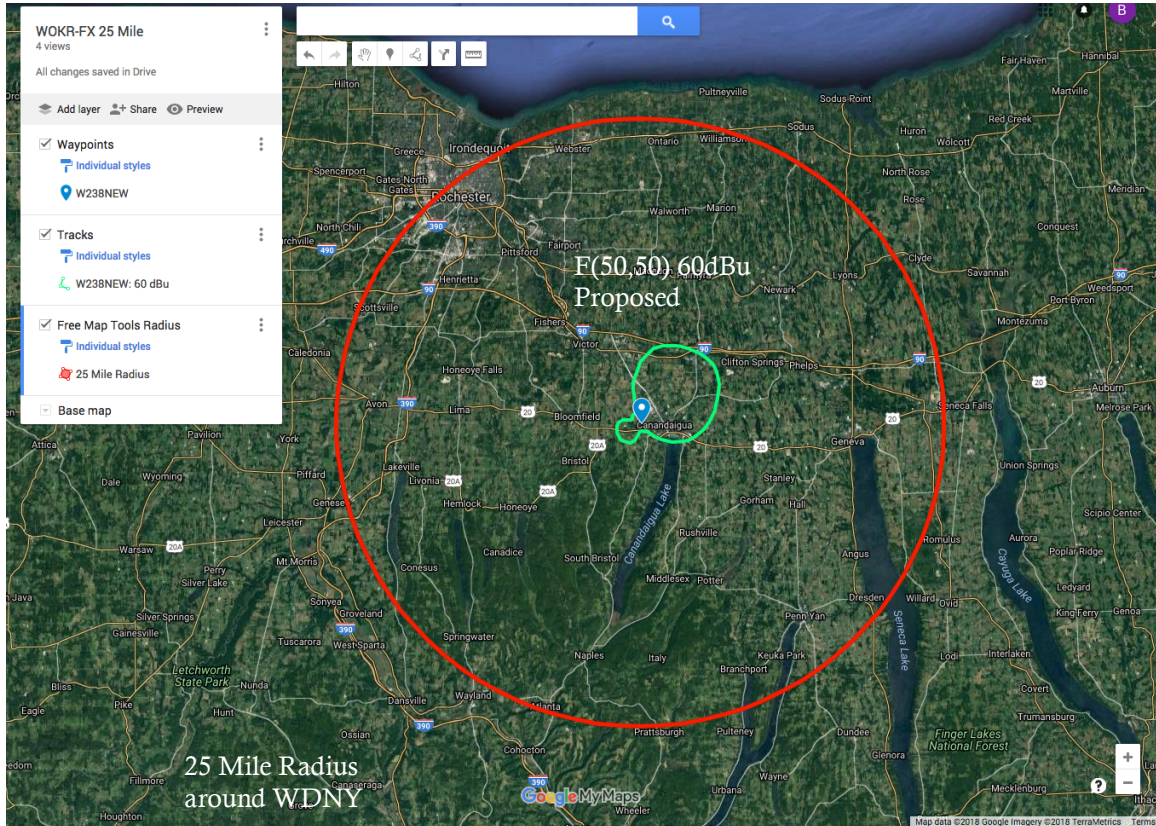
Genesee Media Corporation
FM Contour Distances
W238NEW

| Azi. Deg. | ERP kW | HAAT m | 118 dBu km | 60 dBu km | 54 dBu km | 40 dBu km |
|--------------|-----------|-----------|------------------|-----------------|-----------------|-----------------|
| 0 | 0.034 | 108 | 0.2 | 8.2 | 11.5 | 27.28 |
| 5 | 0.049 | 107 | 0.2 | 8.9 | 12.6 | 29.92 |
| 10 | 0.072 | 110 | 0.2 | 10.0 | 14.1 | 33.52 |
| 15 | 0.088 | 110 | 0.2 | 10.5 | 14.9 | 35.36 |
| 20 | 0.108 | 107 | 0.2 | 10.9 | 15.5 | 36.79 |
| 25 | 0.123 | 107 | 0.2 | 11.2 | 16.1 | 38.10 |
| 30 | 0.141 | 106 | 0.3 | 11.5 | 16.7 | 39.26 |
| 35 | 0.155 | 105 | 0.3 | 11.8 | 17.1 | 40.05 |
| 40 | 0.170 | 105 | 0.3 | 12.0 | 17.6 | 41.03 |
| 45 | 0.181 | 104 | 0.3 | 12.2 | 17.8 | 41.46 |
| 50 | 0.192 | 102 | 0.3 | 12.2 | 17.9 | 41.72 |
| 55 | 0.196 | 97 | 0.2 | 12.0 | 17.4 | 40.92 |
| 60 | 0.200 | 92 | 0.3 | 11.7 | 17.0 | 40.02 |
| 65 | 0.196 | 86 | 0.3 | 11.3 | 16.2 | 38.45 |
| 70 | 0.192 | 79 | 0.3 | 10.8 | 15.3 | 36.59 |
| 75 | 0.181 | 72 | 0.3 | 10.2 | 14.4 | 34.23 |
| 80 | 0.170 | 69 | 0.3 | 9.8 | 13.9 | 32.89 |
| 85 | 0.155 | 64 | 0.3 | 9.3 | 13.1 | 30.73 |
| 90 | 0.141 | 61 | 0.3 | 8.8 | 12.5 | 29.23 |
| 95 | 0.123 | 58 | 0.3 | 8.3 | 11.8 | 27.57 |
| 100 | 0.108 | 55 | 0.3 | 7.8 | 11.1 | 25.97 |
| 105 | 0.088 | 52 | 0.3 | 7.2 | 10.3 | 24.00 |
| 110 | 0.072 | 48 | 0.2 | 6.5 | 9.4 | 21.87 |
| 115 | 0.049 | 43 | 0.2 | 5.6 | 8.0 | 18.49 |
| 120 | 0.034 | 38 | 0.2 | 4.8 | 6.8 | 15.39 |
| 125 | 0.015 | 36 | 0.1 | 3.8 | 5.4 | 12.25 |
| 130 | 0.007 | 34 | 0.1 | 3.1 | 4.3 | 9.80 |
| 135 | 0.001 | 35 | 0.1 | 2.0 | 2.8 | 6.21 |
| 140 | 0.000 | 38 | 0.0 | 1.3 | 1.9 | 4.10 |
| 145 | 0.000 | 40 | 0.1 | 1.3 | 1.7 | 3.80 |
| 150 | 0.000 | 43 | 0.0 | 1.2 | 1.6 | 3.57 |
| 155 | 0.000 | 41 | 0.1 | 1.2 | 1.6 | 3.48 |
| 160 | 0.000 | 37 | 0.0 | 1.1 | 1.5 | 3.30 |
| 165 | 0.000 | 33 | 0.0 | 1.0 | 1.4 | 3.12 |
| 170 | 0.000 | 30 | 0.0 | 1.0 | 1.4 | 2.98 |
| 175 | 0.000 | 31 | 0.0 | 1.0 | 1.4 | 3.02 |

Genesee Media Corporation
FM Contour Distances
W238NEW

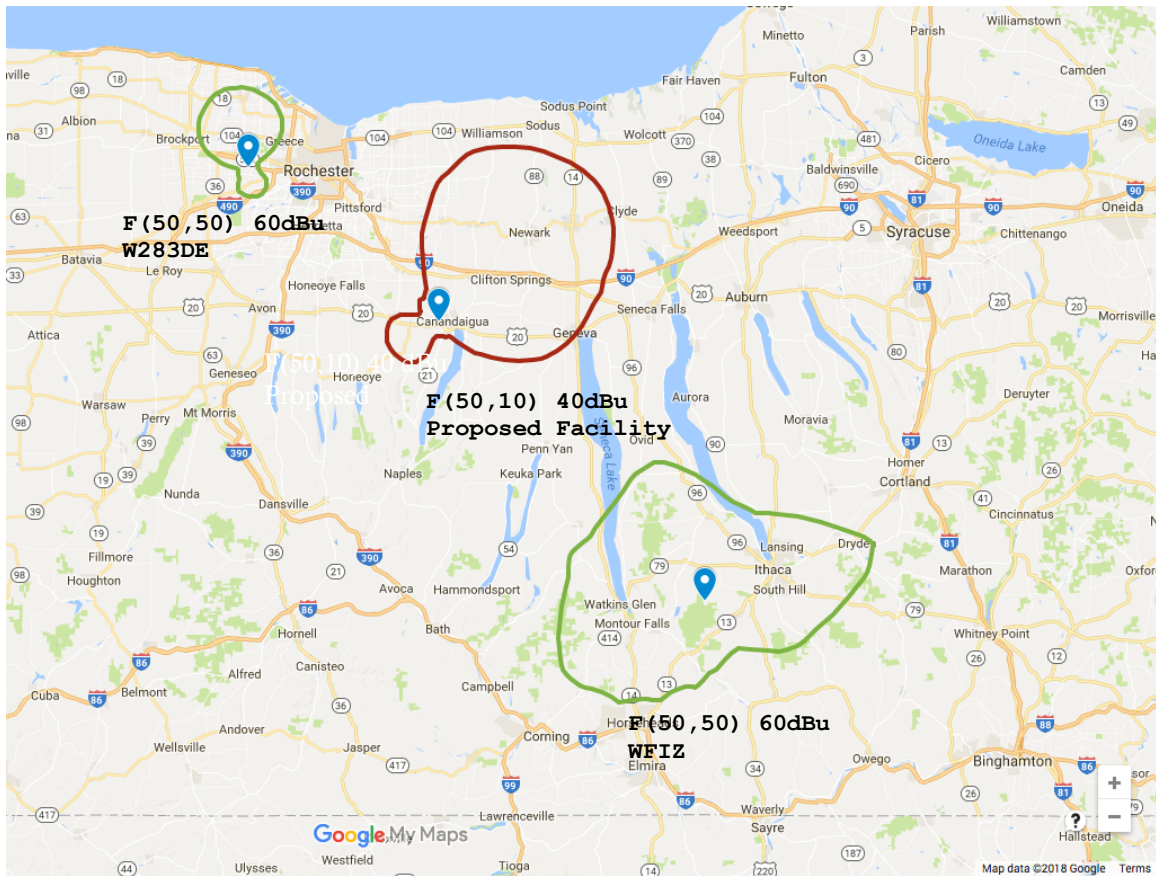
| Azi. Deg. | ERP kW | HAAT m | 118 dBu km | 60 dBu km | 54 dBu km | 40 dBu km |
|--------------|-----------|-----------|------------------|-----------------|-----------------|-----------------|
| 180 | 0.000 | 30 | 0.0 | 1.0 | 1.4 | 2.98 |
| 185 | 0.000 | 30 | 0.0 | 1.1 | 1.5 | 3.14 |
| 190 | 0.000 | 30 | 0.0 | 1.1 | 1.6 | 3.32 |
| 195 | 0.001 | 30 | 0.1 | 1.6 | 2.3 | 4.99 |
| 200 | 0.003 | 30 | 0.1 | 2.4 | 3.3 | 7.51 |
| 205 | 0.005 | 30 | 0.1 | 2.7 | 3.7 | 8.44 |
| 210 | 0.008 | 30 | 0.1 | 2.9 | 4.1 | 9.48 |
| 215 | 0.009 | 30 | 0.1 | 3.1 | 4.3 | 9.89 |
| 220 | 0.011 | 30 | 0.1 | 3.2 | 4.5 | 10.30 |
| 225 | 0.011 | 30 | 0.1 | 3.3 | 4.6 | 10.51 |
| 230 | 0.012 | 30 | 0.1 | 3.3 | 4.7 | 10.72 |
| 235 | 0.013 | 30 | 0.1 | 3.4 | 4.8 | 10.82 |
| 240 | 0.014 | 30 | 0.1 | 3.4 | 4.8 | 10.93 |
| 245 | 0.013 | 30 | 0.1 | 3.4 | 4.8 | 10.82 |
| 250 | 0.012 | 30 | 0.1 | 3.3 | 4.7 | 10.72 |
| 255 | 0.011 | 30 | 0.1 | 3.3 | 4.6 | 10.51 |
| 260 | 0.011 | 30 | 0.1 | 3.2 | 4.5 | 10.30 |
| 265 | 0.009 | 30 | 0.1 | 3.1 | 4.3 | 9.89 |
| 270 | 0.008 | 30 | 0.1 | 2.9 | 4.1 | 9.48 |
| 275 | 0.005 | 30 | 0.1 | 2.7 | 3.7 | 8.44 |
| 280 | 0.003 | 30 | 0.1 | 2.4 | 3.3 | 7.51 |
| 285 | 0.001 | 30 | 0.1 | 1.6 | 2.3 | 4.99 |
| 290 | 0.000 | 42 | 0.1 | 1.3 | 1.8 | 3.94 |
| 295 | 0.000 | 47 | 0.0 | 1.3 | 1.8 | 3.97 |
| 300 | 0.000 | 51 | 0.1 | 1.3 | 1.8 | 3.93 |
| 305 | 0.000 | 64 | 0.1 | 1.4 | 2.0 | 4.40 |
| 310 | 0.000 | 71 | 0.0 | 1.4 | 2.0 | 4.63 |
| 315 | 0.000 | 81 | 0.0 | 1.5 | 2.1 | 4.95 |
| 320 | 0.000 | 95 | 0.0 | 1.5 | 2.3 | 5.37 |
| 325 | 0.000 | 95 | 0.0 | 1.5 | 2.3 | 5.37 |
| 330 | 0.000 | 93 | 0.0 | 1.5 | 2.2 | 5.32 |
| 335 | 0.000 | 99 | 0.0 | 1.7 | 2.6 | 6.08 |
| 340 | 0.000 | 102 | 0.0 | 2.0 | 2.9 | 6.80 |
| 345 | 0.001 | 103 | 0.1 | 3.3 | 4.8 | 10.75 |
| 350 | 0.007 | 105 | 0.1 | 5.4 | 7.6 | 17.60 |
| 355 | 0.015 | 106 | 0.1 | 6.7 | 9.4 | 22.08 |

25 Mile Encompassment of WOKR-AM and Proposed Facility



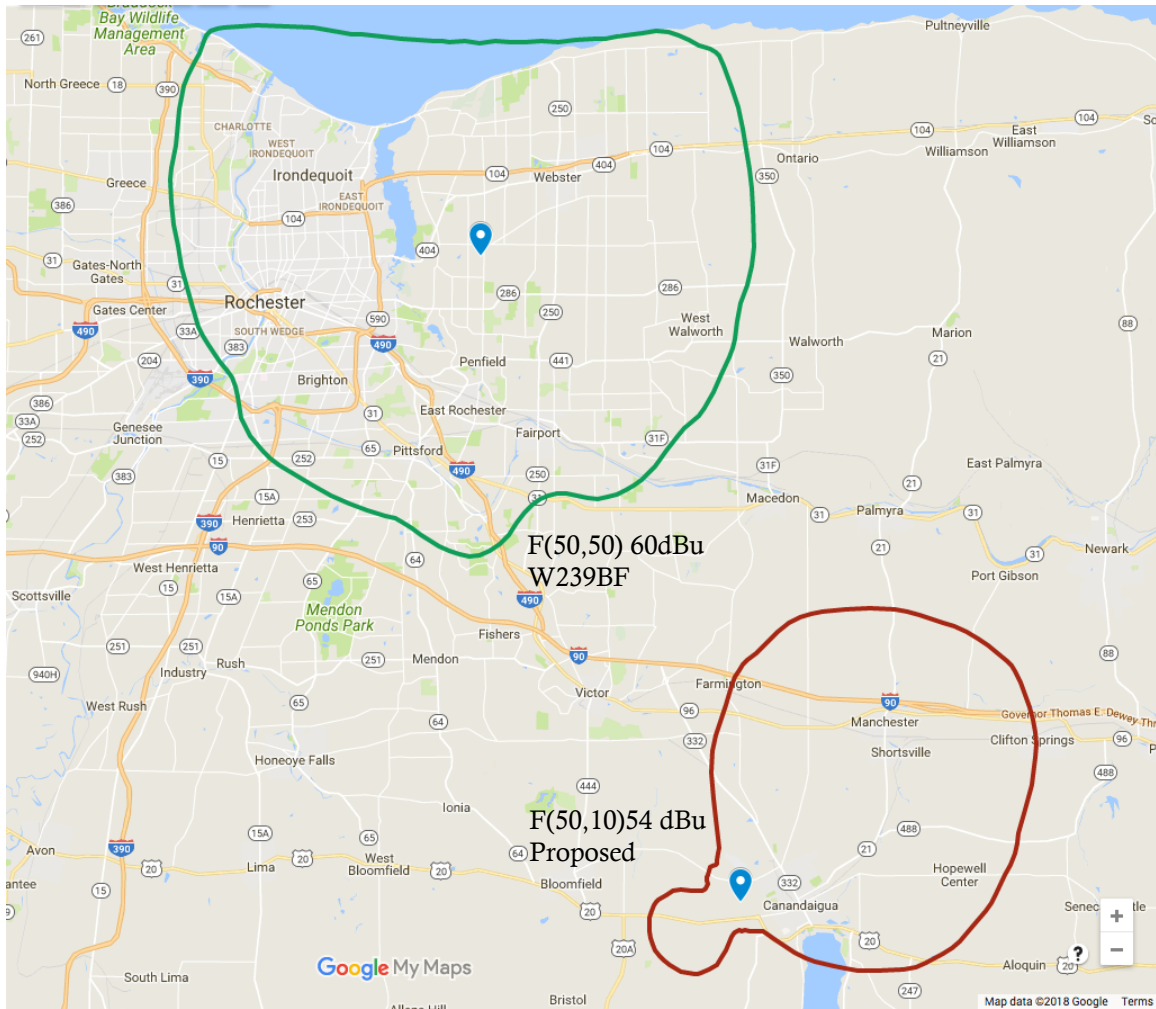
This map shows that the proposed translator's entire 60 dBu contour is contained within the greater of: (i) the 2 mV/m daytime contour of the AM primary station to be rebroadcast, or (ii) a 25-mile radius centered at the AM primary station's transmitter site.

Co-Channel Clearance with WFIZ and W283DE



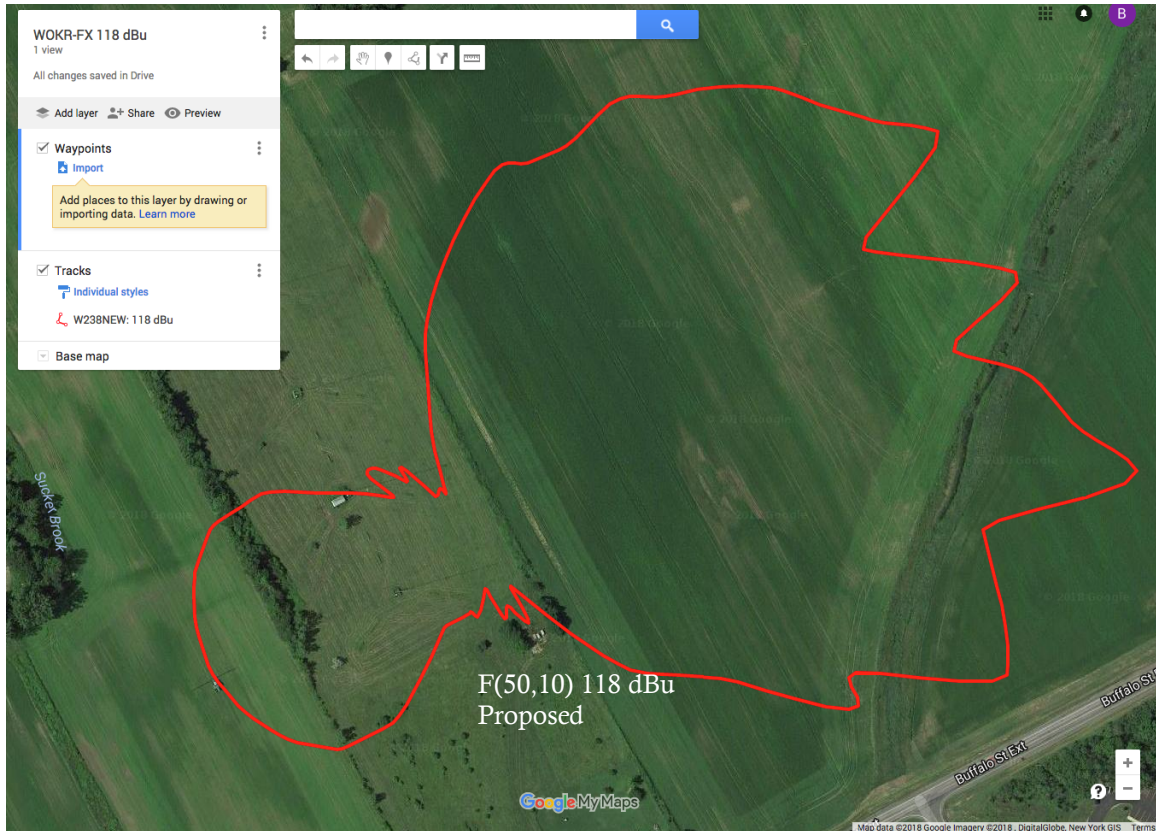
The above map shows zero overlap between the interfering F(50,10) 40 dBu contour of the proposed facility and the protected F(50,50) 60 dBu contour of the both WFIZ and W283DE.

First Adjacent Channel Clearance with W239BF



The above map shows zero overlap between the interfering F(50,10) 54 dBu contour of the proposed facility and the protected F(50,50) 60 dBu contour of W239BF.

Second Adjacent Channel Clearance with WAOI

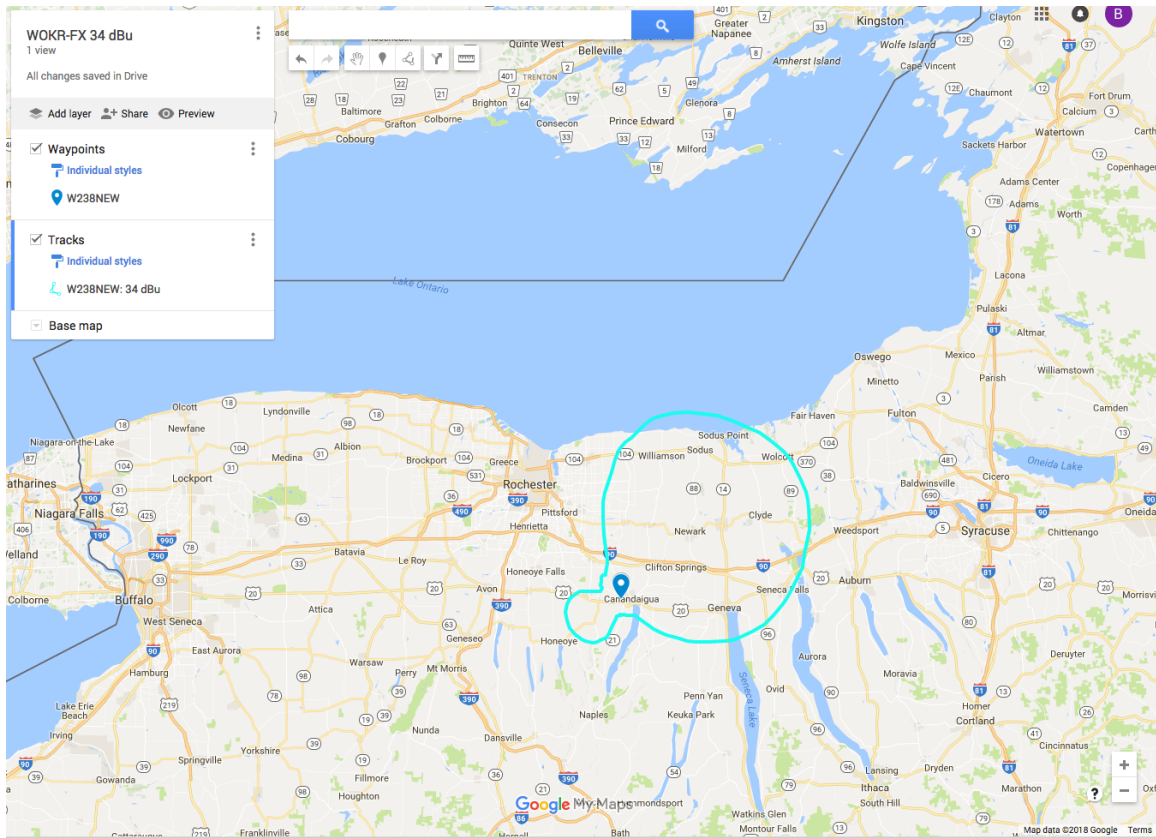


WAOI is a Class B radio station licensed to Honeoye Falls NY. The F(50,50) 54 dBu protected contour shall at no time receive an interfering contour that is 40 dB greater.

WAOI is 18.12 km from the proposed facility heading 152.52 degrees. The 150 degree radial of WAOI is 117m HAAT. Using FM propagation curves, at 50KW, the expected signal strength at the proposed facility is 78.807 dBu. With a 40 dB protection ratio for second and third adjacent channels, the critical contour for the proposed facility would be at: 118 dBu.

The F(50,10) 118 dBu contour of the proposed facility against the WDWI protected 54 dBu contour is shown on a satellite map. Assuming equal, or lower, vertical radiation to the zero-degree vertical radiation plane, this satellite map with the 110 dBu contour superimposed shows that no population will receive objectionable interference.

Canadian Consideration - 47 CFR § 74.1235(d)(3)



The proposed facility's 34dBu F(50,10) interfering contour is completely within US boundaries. Since the interfering contour is completely contained within US boundaries, conditions in 47 CFR § 74.1235(d)(3) are met.

Environmental Compliance.

The proposed antenna is a circularly polarized, one bay FM antenna mounted in a secure location 37m ground on a secure tower. Access to the tower is controlled by a locked fence with warning placards clearly stating the danger of RF exposure.

The antenna's radiation pattern was utilized to determine the effective gain along the ground at 5 degree intervals towards the center of radiation of the antenna. Power Density equations from OET Bulletin 65, Edition 97-01 were used as follows to determine power density:

$$S = \frac{PG}{4\pi R^2} \quad 3)$$

where: S = power density (in appropriate units, e.g. mW/cm²)
P = power input to the antenna (in appropriate units, e.g., mW)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

or:

$$S = \frac{EIRP}{4\pi R^2} \quad (4)$$

where: EIRP = equivalent (or effective) isotropically radiated power

Based on section 1.1310 of the FCC rules for Occupational/Controlled Exposure, the MPE (Maximum Permissible Exposure) for 95.5 MHz is 1,000 uW/cm². Calculations were performed for to determine RF power density at a level 2m above the ground area supporting the antenna structure. Since the antenna is circularly, RF power was doubled in the calculations to reflect cross-polarization effects.

| Proposed Power (H+V): | | 0.5 kW | | | | | |
|-----------------------------|----------------|----------------------------------|--------------|-----------------------------|---|-------------------------|--------|
| Antenna COR at Ground Level | | 37 meters | | | | | |
| OET-65 Power Equation | | (PWR * GAIN) / (4 * Pi * DIST^2) | | | | | |
| Exposure Limit | | 1000 uW/cm^2 | | | | | |
| Depression Angle | Relative Field | ERK (in kW) | ERP (in dBk) | Distance from COR to Ground | Distance from Tower Base to Ground Intersection | Power Density (uW/cm^2) | Result |
| 0 | 1.000 | 0.500 | -3.010 | | | | |
| -5 | 0.996 | 0.498 | -3.028 | 424.53 | 422.91 | 0.02 | CLEAR |
| -10 | 0.985 | 0.493 | -3.076 | 213.07 | 209.84 | 0.09 | CLEAR |
| -15 | 0.966 | 0.483 | -3.161 | 142.96 | 138.09 | 0.19 | CLEAR |
| -20 | 0.940 | 0.470 | -3.279 | 108.18 | 101.66 | 0.32 | CLEAR |
| -25 | 0.906 | 0.453 | -3.439 | 87.55 | 79.35 | 0.47 | CLEAR |
| -30 | 0.866 | 0.433 | -3.635 | 74.00 | 64.09 | 0.63 | CLEAR |
| -35 | 0.819 | 0.410 | -3.877 | 64.51 | 52.84 | 0.78 | CLEAR |
| -40 | 0.766 | 0.383 | -4.168 | 57.56 | 44.09 | 0.92 | CLEAR |
| -45 | 0.707 | 0.354 | -4.516 | 52.33 | 37.00 | 1.03 | CLEAR |
| -50 | 0.643 | 0.322 | -4.928 | 48.30 | 31.05 | 1.10 | CLEAR |
| -55 | 0.574 | 0.287 | -5.421 | 45.17 | 25.91 | 1.12 | CLEAR |
| -60 | 0.500 | 0.250 | -6.021 | 42.72 | 21.36 | 1.09 | CLEAR |
| -65 | 0.423 | 0.212 | -6.747 | 40.82 | 17.25 | 1.01 | CLEAR |
| -70 | 0.342 | 0.171 | -7.670 | 39.37 | 13.47 | 0.88 | CLEAR |
| -75 | 0.259 | 0.130 | -8.877 | 38.31 | 9.91 | 0.70 | CLEAR |
| -80 | 0.174 | 0.087 | -10.605 | 37.57 | 6.52 | 0.49 | CLEAR |
| -85 | 0.087 | 0.044 | -13.615 | 37.14 | 3.24 | 0.25 | CLEAR |
| -90 | 0.000 | 0.000 | -43.010 | 37.00 | - | 0.00 | CLEAR |

Based on section 1.310 of the FCC Rules for General Population Exposure, the MPE is 200 $\mu\text{W}/\text{cm}^2$. Calculations were performed to determine the RF power density 2 meters above ground surrounding all areas of the tower supporting the transmitter antenna. Since the antenna is circularly polarized, RF power was doubled in the calculations to reflect cross-polarization effects.

| Proposed Power (H+V): | | 0.5 kW | | | | | |
|-----------------------------|----------------|--|--------------|-----------------------------|---|---|--------|
| Antenna COR at Ground Level | | 37 meters | | | | | |
| OET-65 Power Equation | | $(\text{PWR} * \text{GAIN}) / (4 * \text{Pi} * \text{DIST}^2)$ | | | | | |
| Exposure Limit | | 200 $\mu\text{W}/\text{cm}^2$ | | | | | |
| Depression Angle | Relative Field | ERK (in kW) | ERP (in dBk) | Distance from COR to Ground | Distance from Tower Base to Ground Intersection | Power Density ($\mu\text{W}/\text{cm}^2$) | Result |
| 0 | 1.000 | 0.500 | -3.010 | | | | |
| -5 | 0.996 | 0.498 | -3.028 | 424.53 | 422.91 | 0.02 | CLEAR |
| -10 | 0.985 | 0.493 | -3.076 | 213.07 | 209.84 | 0.09 | CLEAR |
| -15 | 0.966 | 0.483 | -3.161 | 142.96 | 138.09 | 0.19 | CLEAR |
| -20 | 0.940 | 0.470 | -3.279 | 108.18 | 101.66 | 0.32 | CLEAR |
| -25 | 0.906 | 0.453 | -3.439 | 87.55 | 79.35 | 0.47 | CLEAR |
| -30 | 0.866 | 0.433 | -3.635 | 74.00 | 64.09 | 0.63 | CLEAR |
| -35 | 0.819 | 0.410 | -3.877 | 64.51 | 52.84 | 0.78 | CLEAR |
| -40 | 0.766 | 0.383 | -4.168 | 57.56 | 44.09 | 0.92 | CLEAR |
| -45 | 0.707 | 0.354 | -4.516 | 52.33 | 37.00 | 1.03 | CLEAR |
| -50 | 0.643 | 0.322 | -4.928 | 48.30 | 31.05 | 1.10 | CLEAR |
| -55 | 0.574 | 0.287 | -5.421 | 45.17 | 25.91 | 1.12 | CLEAR |
| -60 | 0.500 | 0.250 | -6.021 | 42.72 | 21.36 | 1.09 | CLEAR |
| -65 | 0.423 | 0.212 | -6.747 | 40.82 | 17.25 | 1.01 | CLEAR |
| -70 | 0.342 | 0.171 | -7.670 | 39.37 | 13.47 | 0.88 | CLEAR |
| -75 | 0.259 | 0.130 | -8.877 | 38.31 | 9.91 | 0.70 | CLEAR |
| -80 | 0.174 | 0.087 | -10.605 | 37.57 | 6.52 | 0.49 | CLEAR |
| -85 | 0.087 | 0.044 | -13.615 | 37.14 | 3.24 | 0.25 | CLEAR |
| -90 | 0.000 | 0.000 | -43.010 | 37.00 | - | 0.00 | CLEAR |

At a distance of 2m above the ground, the proposed facility will not cause an RF field that is equal or greater than $1,000 \mu\text{W}/\text{cm}^2$ limit for controlled exposure at any point. Additionally, the proposed facility will not cause an RF field equal or greater than the $200 \mu\text{W}/\text{cm}^2$ limit at any location accessible to the general public around the area supporting the radiating antenna. Hence, the proposed facility complies with the requirements of OET 65.

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."

Only professionals, certified by American Tower, the owner of the tower structure, are permitted access to the tower. A warning sign is clearly posted on the fencing of the structure stating the danger of RF exposure with a phone number to call to the facility operator.

Applicant certifies it, in coordination with other users of the site, will reduce power or cease operations, as necessary, to protect persons needing access to the site, tower, or antenna from RF exposure.

Certification

This Consolidated Engineering report, relative to an application to for a new facility at 95.5 MHz has been prepared by the undersigned. Applicant confirms that WOKR-AM is a class B radio station and has been invited to submit a long form application in the AM Revitalization Auction 100 filing window. It is submitted that this statement, the amendments contained within, and all supporting exhibits, comply with the Rules and Regulations of the Federal Communications Commission and all representations contained herein are true to the best of my knowledge.

A handwritten signature in black ink, appearing to read 'Brian P. McGlynn', with a stylized, flowing script.

Brian P. McGlynn

Genesee Media Corporation

October 4, 2018