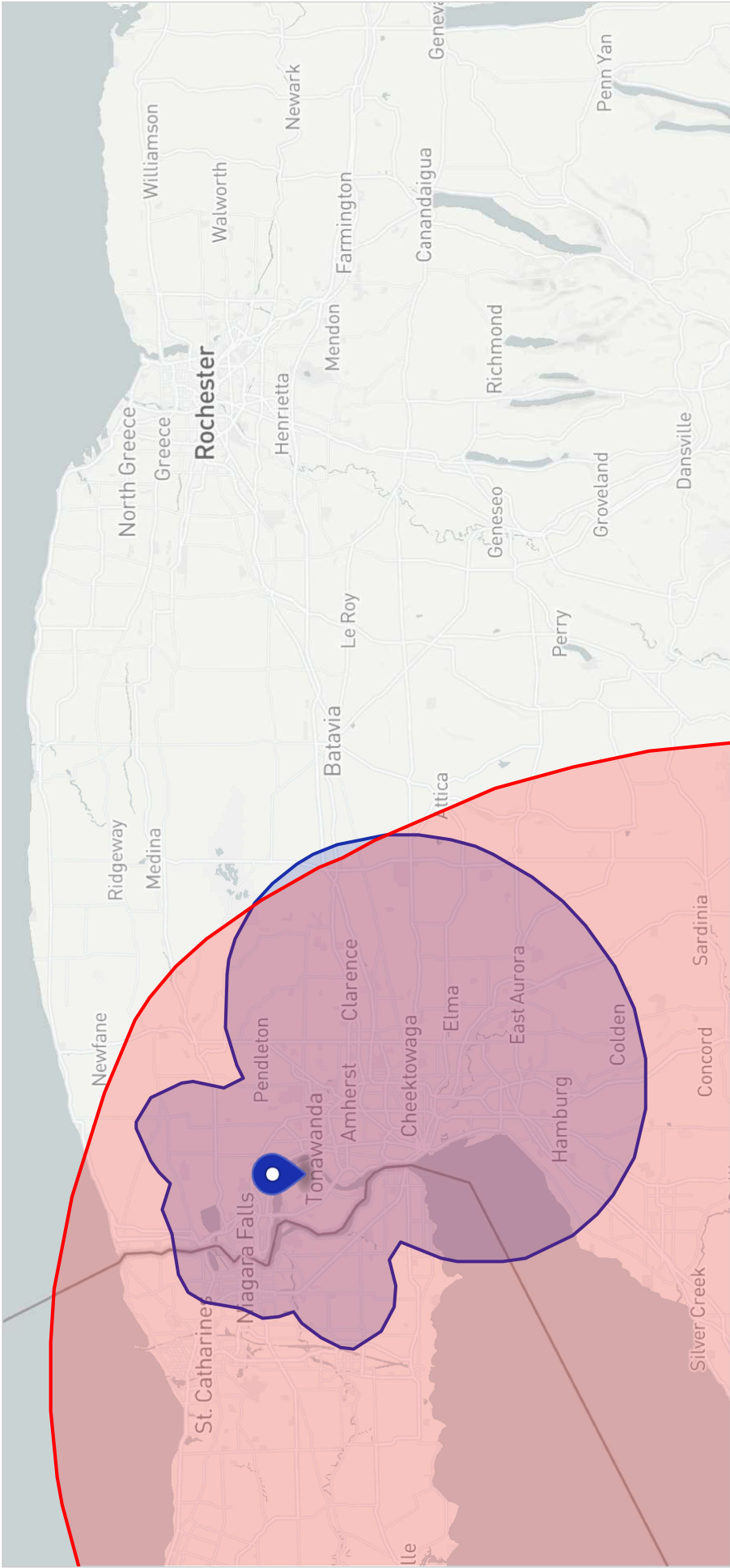


# Engineering Tools

## Overlap Evaluation



### Legend

Subject Station:0000241338

📍 Site ID: 2, 51 dBu F(5090)

Study Station:BLCDT-20090508ABW

📍 Site ID: 1, 41 dBu F(5090)    Distance from Subject Station:75.098 (km)

**Subject Station: 0000241338**

Call Sign: WNYB

Service: Digital Replacement Translator

Status: Pending

Authorization Type: CP

Channel: 27

Site 1:

NAD83 Coordinates: 43 1' 48.2" N 78 55' 14.1" W

Antenna Type: Directional Custom

Rotation: 135

Effective ERP: 15.0 kW

RCAMSL (Radiation center-above mean sea level):419.7 meters

HAAT (Antenna Height Above Average Terrain.):

RCAGL (Radiation Center-Above Ground Level.):243.8 meters

Directional Antenna Relative Field Values (Pre-rotated Pattern)

| Rad | Field | ERP      | Rad | Field | ERP     | Rad | Field | ERP     | Rad | Field | ERP      |
|-----|-------|----------|-----|-------|---------|-----|-------|---------|-----|-------|----------|
| 0   | 1.0   | 15.0     | 90  | 0.032 | 0.01536 | 180 | 0.062 | 0.05766 | 270 | 0.032 | 0.01517  |
| 10  | 0.96  | 13.824   | 100 | 0.053 | 0.04213 | 190 | 0.054 | 0.04374 | 280 | 0.03  | 0.01977  |
| 20  | 0.848 | 10.78656 | 110 | 0.069 | 0.07141 | 200 | 0.048 | 0.03456 | 290 | 0.093 | 0.16068  |
| 30  | 0.693 | 7.20373  | 120 | 0.074 | 0.08214 | 210 | 0.049 | 0.03602 | 300 | 0.198 | 0.68053  |
| 40  | 0.518 | 4.02486  | 130 | 0.057 | 0.04873 | 220 | 0.042 | 0.02646 | 310 | 0.348 | 1.99837  |
| 50  | 0.348 | 1.81656  | 140 | 0.042 | 0.02646 | 230 | 0.057 | 0.05169 | 320 | 0.518 | 4.3014   |
| 60  | 0.198 | 0.58806  | 150 | 0.049 | 0.03602 | 240 | 0.074 | 0.08103 | 330 | 0.693 | 7.52958  |
| 70  | 0.093 | 0.12974  | 160 | 0.048 | 0.03456 | 250 | 0.069 | 0.06814 | 340 | 0.848 | 11.07337 |
| 80  | 0.03  | 0.0135   | 170 | 0.054 | 0.04374 | 260 | 0.053 | 0.03886 | 350 | 0.96  | 13.93944 |

Study Station 1 : BLCDT-20090508ABW

File Information:

Call Sign:WNYB

Service:Full Service Television

Status:Granted

Authorization Type:License

Channel:26

Site 1:

NAD83 Coordinates:42 23' 36.0" N 79 13' 43.0" W

Antenna Type:Directional Custom

Rotation:0

Effective ERP:243 kW

RCAMSL (Radiation center-above mean sea level.):858 meters

HAAT (Antenna Height Above Average Terrain.):463 meters

RCAGL (Radiation Center-Above Ground Level.):313 meters

Directional Antenna Relative Field Values (Pre-rotated Pattern)

| Rad | Field | ERP       | Rad | Field | ERP      | Rad | Field | ERP      | Rad | Field | ERP       |
|-----|-------|-----------|-----|-------|----------|-----|-------|----------|-----|-------|-----------|
| 0   | 1.0   | 243.0     | 90  | 0.554 | 74.58059 | 180 | 0.322 | 25.19521 | 270 | 0.554 | 74.58059  |
| 10  | 0.989 | 237.6834  | 100 | 0.489 | 58.1064  | 190 | 0.306 | 22.75355 | 280 | 0.612 | 91.01419  |
| 20  | 0.956 | 222.08645 | 110 | 0.413 | 41.44827 | 200 | 0.262 | 16.68049 | 290 | 0.667 | 108.10803 |
| 30  | 0.907 | 199.90371 | 120 | 0.328 | 26.14291 | 210 | 0.214 | 11.12843 | 300 | 0.723 | 127.02315 |
| 40  | 0.848 | 174.74227 | 130 | 0.247 | 14.82519 | 220 | 0.2   | 9.72     | 310 | 0.785 | 149.74268 |
| 50  | 0.785 | 149.74268 | 140 | 0.2   | 9.72     | 230 | 0.247 | 14.82519 | 320 | 0.848 | 174.74227 |

| Rad | Field | ERP       | Rad | Field | ERP      | Rad | Field | ERP      | Rad | Field | ERP       |
|-----|-------|-----------|-----|-------|----------|-----|-------|----------|-----|-------|-----------|
| 60  | 0.723 | 127.02315 | 150 | 0.214 | 11.12843 | 240 | 0.328 | 26.14291 | 330 | 0.907 | 199.90371 |
| 70  | 0.667 | 108.10803 | 160 | 0.262 | 16.68049 | 250 | 0.413 | 41.44827 | 340 | 0.956 | 222.08645 |
| 80  | 0.612 | 91.01419  | 170 | 0.306 | 22.75355 | 260 | 0.489 | 58.1064  | 350 | 0.989 | 237.6834  |