

Channel Study

| REFERENCE         |        | CH# 202D - 88.3 MHz, Pwr= 0.04 kW, HAAT=55.2M, COR= 237 M      |       |                  |          |         |         |                            |                 | DISPLAY DATES |          |
|-------------------|--------|--|-------|------------------|----------|---------|---------|----------------------------|-----------------|---------------|----------|
| 42 20 42 N.       |        | Average Protected F(50-50)= 6.1 km                             |       |                  |          |         |         |                            |                 | DATA          | 09-26-06 |
| 83 00 30 W.       |        | Ave. F(50-10) 40 dBu= 20.3 54 dBu= 8.7 80 dBu= 2.0 100 dBu= .4 |       |                  |          |         |         |                            |                 | SEARCH        | 09-27-06 |
| CH                | CALL   | TYPE   | AZI.  | DIST             | LAT.     | Pwr(kW) | COR(M)  | PRO(km)                    | *IN*            | *OUT*         |          |
| CITY              |        | STATE  | <--   | FILE #           | LNG.     | HAAT(M) | INT(km) | LICENSEE                   | (Overlap in km) |               |          |
| 202A              | WSHJ   | LIC CX   | 303.6 | 25.23            | 42 28 12 | 0.105   | 237     | 6.3                        | 2.44            | 15.43         |          |
| Southfield        |        | MI   | 123.4 | BLED20041104APT  | 83 15 51 | 38      | 21.2    | Board Of Education Of Sout |                 |               |          |
| 202D              | W256AY | APP DC   | 20.7  | 5.28             | 42 23 22 | 0.007   | 223     | 3.5                        | -7.11           | -1.49         |          |
| Detroit           |        | MI   | 200.7 | BMPFT20060126AEH | 82 59 08 | 43      | 11.1    | Educational Media Foundati |                 |               |          |
| 204C1             | CIMX   | OPE HN   | 175.9 | 19.39            | 42 10 15 | 100.000 | 360     | 74.7                       | 7.21            | -57.41*       |          |
| Windsor           |        | ON   | 355.9 |                  | 82 59 29 | 172     | 7.6     |                            |                 |               |          |
| 202D              | AP202  | APP C  | 21.9  | 23.33            | 42 32 23 | 0.120   | 217     | 6.3                        | 1.05            | 13.75         |          |
| Harrison Township |        | MI   | 202.0 | BNPFT20000419AAL | 82 54 07 | 35      | 21.0    | Northland Community Broadc |                 |               |          |
| 202A              | WXOU   | LIC DCN  | 335.9 | 44.44            | 42 42 35 | 0.004   | 360     | 4.7                        | 28.10           | 36.65         |          |
| Auburn Hills      |        | MI   | 155.7 | BLED19950808KA   | 83 13 50 | 112     | 15.0    | Oakland University         |                 |               |          |
| 202D              | AP202  | APP C  | 212.6 | 39.60            | 42 02 41 | 0.250   | 197     | 7.1                        | 9.59            | 11.61         |          |
| Berlin Township   |        | MI   | 32.4  | BNPFT20000327AAL | 83 16 00 | 23      | 23.8    | Northland Community Broadc |                 |               |          |
| 202A              | WCBNFM | LIC VN   | 263.0 | 60.41            | 42 16 37 | 0.200   | 318     | 10.7                       | 19.34           | 34.08         |          |
| Ann Arbor         |        | MI   | 82.5  | BLED19870202KB   | 83 44 07 | 76      | 36.2    | Regents Of The University  |                 |               |          |
| 203A              | AP203  | APP DVX  | 21.4  | 23.78            | 42 32 39 | 0.111   | 259     | 9.3                        | 9.48            | 12.89         |          |
| Mount Clemens     |        | MI   | 201.4 | BNPED20000222AAP | 82 54 09 | 76      | 13.0    | Pensacola Christian Colleg |                 |               |          |
| 201D              | WHPRFM | LIC H  | 316.6 | 10.56            | 42 24 50 | 0.011   | 221     | 3.6                        | 4.17            | 5.38          |          |
| Highland Park     |        | MI   | 136.5 | BMLED19990723KB  | 83 05 48 | 37      | 5.1     | R.j.'s Late Night Entertai |                 |               |          |
| 202A              | WNFA   | LIC CN   | 31.3  | 84.54            | 42 59 36 | 1.300   | 251     | 15.2                       | 28.55           | 65.79         |          |
| Port Huron        |        | MI   | 211.7 | BLED19860528KD   | 82 28 06 | 61      | 54.7    | Ross Bible Church          |                 |               |          |
| 201A              | AP201  | APP DCX  | 319.0 | 34.39            | 42 34 41 | 0.010   | 311     | 5.6                        | 25.17           | 27.14         |          |
| Bloomfield Hills  |        | MI   | 138.8 | BNPED20041001AWW | 83 17 01 | 94      | 7.9     | R B Schools                |                 |               |          |
| 201A              | WBFH   | LIC DCN  | 318.8 | 34.55            | 42 34 42 | 0.012   | 310     | 5.9                        | 24.97           | 27.06         |          |
| Bloomfield Hills  |        | MI   | 138.6 | BLED19920406KC   | 83 17 10 | 93      | 8.3     | Bloomfield Hills School Di |                 |               |          |
| 202A              | WXTSFM | LIC CN   | 211.1 | 87.69            | 41 40 07 | 0.105   | 224     | 7.5                        | 56.27           | 59.40         |          |
| Toledo            |        | OH   | 30.8  | BLED198111130AM  | 83 33 15 | 52      | 25.2    | Board Of Education Toledo  |                 |               |          |
| 201A              | WSDP   | LIC CN   | 270.5 | 40.31            | 42 20 50 | 0.200   | 251     | 9.2                        | 23.07           | 24.97         |          |
| Plymouth          |        | MI   | 90.2  | BLED19791211AG   | 83 29 51 | 55      | 12.8    | Plymouth-canton Community  |                 |               |          |
| 202A              | WXUT   | LIC HN   | 213.5 | 91.48            | 41 39 26 | 0.100   | 248     | 8.5                        | 57.06           | 62.00         |          |
| Toledo            |        | OH   | 33.1  | BLED19901120KF   | 83 36 57 | 68      | 28.1    | University Of Toledo       |                 |               |          |
| 201A              | WDTR.C | CP DEX   | 205.6 | 47.77            | 41 57 26 | 2.800   | 311     | 27.3                       | 0.20            | 11.80         |          |
| Monroe            |        | MI   | 25.5  | BPED20051216ACF  | 83 15 30 | 137     | 41.5    | Northland Community Broadc |                 |               |          |
| 202A              | WAQQ   | LIC V  | 251.5 | 100.10           | 42 03 16 | 0.250   | 316     | 7.8                        | 68.26           | 73.90         |          |
| Onsted            |        | MI   | 70.7  | BLED20010809AAA  | 84 09 20 | 37      | 26.3    | Great Lakes Community Broa |                 |               |          |
| 202A              | WAQQ.C | CP VX  | 252.7 | 104.59           | 42 03 33 | 0.250   | 324     | 7.3                        | 74.53           | 79.19         |          |
| Onsted            |        | MI   | 71.9  | BPED20040225ABJ  | 84 12 54 | 32      | 24.6    | Great Lakes Community Broa |                 |               |          |
| 201A              | WDTR   | LIC CX   | 212.7 | 56.26            | 41 55 08 | 1.200   | 218     | 12.6                       | 31.46           | 34.71         |          |
| Monroe            |        | MI   | 32.5  | BLED20051216ACG  | 83 22 34 | 43      | 18.5    | Northland Community Broadc |                 |               |          |
| 201B              | WHYT.A | APP DEX  | 357.0 | 92.33            | 43 10 30 | 0.396   | 425     | 20.1                       | 61.29           | 70.67         |          |
| Goodland Township |        | MI   | 177.0 | BPED20040812ABS  | 83 04 02 | 185     | 29.7    | Superior Communications    |                 |               |          |
| 201B              | WHYT.A | APP DEX  | 357.0 | 92.33            | 43 10 30 | 2.111   | 421     | 29.1                       | 47.16           | 61.63         |          |
| Goodland Township |        | MI   | 177.0 | BPED20040812ABS  | 83 04 02 | 181     | 43.8    | Superior Communications    |                 |               |          |

# Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 12

Detroit, MI

| Page # 2                  |        |               |                |                           |                      |                    |                   |                                     |                         |         |
|---------------------------|--------|---------------|----------------|---------------------------|----------------------|--------------------|-------------------|-------------------------------------|-------------------------|---------|
| CH<br>CITY                | CALL   | TYPE<br>STATE | AZI.<br><--    | DIST<br>FILE #            | LAT.<br>LNG.         | Pwr(kW)<br>HAAT(M) | COR(M)<br>INT(km) | PRO(km)<br>LICENSEE                 | *IN*<br>(Overlap in km) | *OUT*   |
| 202A<br>Berea             | WBWC.A | APP DCN<br>OH | 138.0<br>318.7 | 138.02<br>BMPED19970303IB | 41 25 05<br>81 54 03 | 5.000<br>105       | 295<br>84.6       | 27.8<br>Baldwin-wallace College     | 51.81                   | 106.15  |
| 202A<br>Berea             | WBWC   | LIC DC<br>OH  | 138.0<br>318.7 | 138.02<br>BLED20001215AAR | 41 25 05<br>81 54 03 | 4.000<br>105       | 295<br>81.2       | 26.4<br>Baldwin-wallace College     | 55.25                   | 107.50  |
| 201A<br>Chatham           | CBEEFM | OPE CN<br>ON  | 80.9<br>261.6  | 77.03                     | 42 27 00<br>82 05 00 | 1.450<br>-175      | 0<br>15.7         | 15.6                                | 59.97                   | 59.13   |
| 203B1<br>Sandusky         | 981005 | APP DCN<br>OH | 171.4<br>351.5 | 105.81<br>BPED19981005MC  | 41 24 11<br>82 49 05 | 0.922<br>128       | 302<br>30.3       | 20.6<br>Public Broadcasting Founda  | 71.31                   | 79.35   |
| 203B1<br>Sandusky         | 980522 | APP DCN<br>OH | 171.4<br>351.5 | 105.81<br>BPED19980522MD  | 41 24 11<br>82 49 05 | 0.887<br>128       | 302<br>30.0       | 20.4<br>Kent State University       | 71.60                   | 79.54   |
| 201A<br>Goodland Township | WHYT   | LIC VX<br>MI  | 357.0<br>177.0 | 92.33<br>BLED20031016AAT  | 43 10 30<br>83 04 02 | 0.400<br>185       | 425<br>29.8       | 20.1<br>Superior Communications     | 61.22                   | 70.62   |
| 205A<br>Flint             | WAKL   | LIC DVX<br>MI | 326.8<br>146.4 | 84.62<br>BLED20041102AEF  | 42 58 49<br>83 34 40 | 0.216<br>60        | 330<br>1.0        | 9.8<br>Educational Media Foundati   | 82.25                   | 74.82   |
| 06-<br>Windsor            | AP585  | AP HN<br>ON   | 219.0<br>39.0  | 4.14                      | 42 18 58<br>83 02 24 | 0.560              | 0<br>6.2          | 7.7<br>South Western Ontario B/ca   | 146.0R                  | -141.9M |
| 06-2C<br>Lansing          | WLNSTV | LI HN<br>MI   | 289.3<br>108.4 | 118.73<br>BLCT20020103AAA | 42 41 19<br>84 22 35 | 100.000<br>305     | 577<br>4.2        | 104.1<br>Young Broadcasting Of Lans | 146.0R                  | -27.3M• |
| 06Z2<br>Stevenson         | CIII-D | AP HN<br>ON   | 126.0<br>306.4 | 53.49<br>BPFS20041023AAN  | 42 03 41<br>82 29 05 | 3.000<br>300       | 484<br>1.9        | 67.0                                | 146.0R                  | -92.5M  |

ERP and HAAT on direct-line with reference station.

• affixed to TV6 Margin= no direct-line contour overlap.

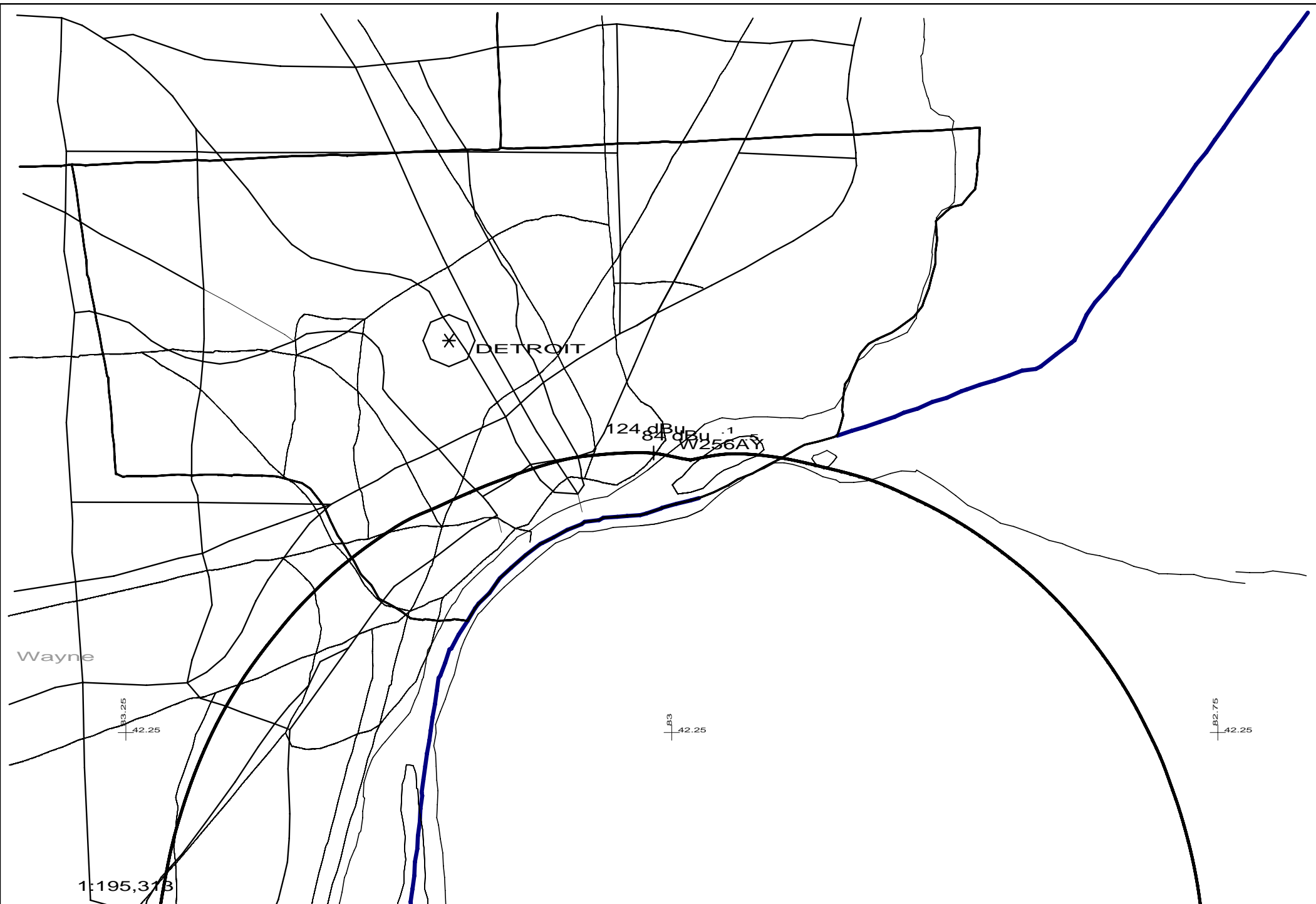
\*\*\*affixed to 'IN' or 'Out' values = site inside protected contour.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station CIMX, channel 204C1, Windsor, ON. The predicted F(50-50) field strength of CIMX at the proposed translator site is 84.0 dBu (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 124.0 dBu. This interfering contour extends approximately 27.9 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 54 meter level on a 59 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see exhibit 12C) and the attached aerial photo (see exhibit 12D); both indicate a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 27.9 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.



1:195,313

Scale in km

W256AY 202D .04kW 237M AMSL

N. Lat. 42 20 42 W. Lng. 83 00 30

W256AY vs. CIMX

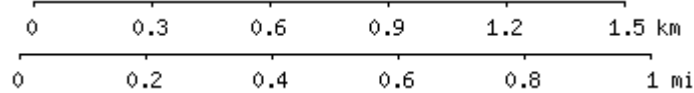
EMF - 08/06

FMCommander Allocation Study  
08-23-2006W256AY CH 202 D  
0.04 kW 237 M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBuAP202 CH 202 D BNPFT20000419AAL  
0.12 kW, 217 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

Scale = 1:500,000







42° 20' 42"N, 83° 00' 30"W (NAD27)  
**USGS Detroit (MI) Quadrangle**  
 Projection is UTM Zone 17 NAD83 Datum



M=-5.131  
G=-1.353





Tower

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Pointer 42°20'41.99" N 83°00'29.99" W elev 594 ft

Streaming ||||| 100%

Eye alt 1135 ft

**Compliance with C.F.R. 74.1235 (U.S. vs. Canada)**

EMF's proposed FM translator's predicted 34 dBu interfering contour extends beyond the Canadian border. The interfering contour of the originally granted application for W256AY (BNPFT-20030829BDN, granted on 8/31/04) extended beyond the Canadian border as well (see attached Exhibit 12E-1).

The area of predicted interference caused by the original CP that is within Canadian territory is approximately 738.22 square kilometers. The area of predicted interference within Canadian territory caused by the facility proposed herein, is approximately 274.01 square kilometers (see Exhibit 12E-1).

Therefore, EMF respectfully requests a waiver of C.F.R 74.1235 based on a decrease in predicted interference.



**Exhibit 12E-1****W256AY.C**

BNPFT20030829BDN

Latitude: 42-23-22 N

Longitude: 082-59-08 W

ERP: 0.08 kW

Channel: 256

Frequency: 99.1 MHz

AMSL Height: 223.0 m

Elevation: 183.0 m

Horiz. Pattern: Omni

**W256AY.P**

BNPFT20030829BDN

Latitude: 42-20-42 N

Longitude: 083-00-30 W

ERP: 0.04 kW

Channel: 202

Frequency: 88.3 MHz

AMSL Height: 237.0 m

Elevation: 183.0 m

Horiz. Pattern: Directional

