

FCC Form 340 - Exhibit No. 18

FM Channel Study

Exhibit 18 - FM Channel Study

WORQ Power Increase & New Dirl Antenna

REFERENCE CH# 211C2- 90.1 MHz, Pwr= 17 kW DA, HAAT= 197.0 M, COR= 440.7 M DISPLAY DATES
 44 21 32.0 N. Average Protected F(50-50)= 47.4 km DATA 06-03-15
 87 59 07.0 W. Standard Directional SEARCH 06-25-15

| 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* |
|------------------------|---------|------|--------------|----------------|---------------------------|--------------------------|----------------------|---------------------|------------------------------------|-------------------------|----------|
| 211C2 Green Bay | WORQ! | LIC | DCX WI | 0.0 0.0 | 0.00 BLED20021015AAY | 44 21 32.0 87 59 07.0 | 11.000 197 | 115.1 439 | 46.4 Lakeshore Communications, | -164.1 | -167.3 |
| 212A Oshkosh | WRST-FM | LIC | CN WI | 231.2 50.8 | 58.19 BLED1160 | 44 01 45.0 88 33 08.0 | 0.960 38 | 18.5 276 | 12.6 Board Of Regents, Universi | 7.5 | -2.6< /1 |
| 211C1 Marquette | WNMU-FM | LIC | CX MI | 2.6 182.7 | 221.91 BLED20131113BSN | 46 21 10.0 87 51 15.0 | 100.000 283 | 172.2 730 | 72.5 Board Of Control, Northern | 0.8 | 28.5 |
| 210A Fond Du Lac | WVFL | LIC | DVX WI | 204.6 24.4 | 67.98 BLED20070514AGG | 43 48 09.0 88 20 18.0 | 1.000 117 | 27.8 396 | 18.9 Vcy America, Inc. | 8.4 | 1.2 |
| 213C1 Sturgeon Bay | WPFF | LIC | C WI | 38.6 219.0 | 77.71 BLED19980211KA | 44 54 14.0 87 22 13.0 | 100.000 195 | 7.8 390 | 62.0 Educational Media Foundati | 22.9 | 10.8 |
| 210C2 Stevens Point | WWSP | LIC | DCX WI | 276.4 95.2 | 134.97 BLED20080611ABK | 44 28 55.0 89 40 35.0 | 30.000 98 | 51.9 425 | 33.6 Board Of Regents, Universi | 35.6 | 31.2 |
| 212C1 Twin Lake | WBLV | LIC | CN MI | 119.4 300.7 | 179.60 BLED19901002KB | 43 32 60.0 86 02 34.0 | 100.000 185 | 92.7 427 | 62.3 Blue Lake Fine Arts Camp | 41.3 | 49.9 |

Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, 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)
 << = Station meets FCC minimum distance spacing for its class.
 < = Contour Overlap

/1 Please see next page for map showing compliance with 47 C.F.R. §73.509(e) due to the contour overlap being entirely over water.

NOTE: This study uses more accurate USGS 03 Second datum per 47 C.F.R. 73.312.

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