

Technical Report W296BE Minor Modification

This technical report is submitted for a minor modification to the W296BE CP at Clintonville, WI, FCC file no. BPFT-20090811ACK. A change in channel to IF channel 243 (-53) is requested. The proposed 60 dBu will continue to overlap the licensed 60 dBu and it will rebroadcast the primary signal of WJMQ(FM) 22A at Clintonville, WI, FCC facility I.D. 58581.

The following exhibits are provided to support the FCC form 349 application:

- E-1 W296BE Overlap Study
- E-2 60 dBu Plot within WJMQ(FM) Ch. 222A and Overlap to the Current 60 dBu Contour

W296BE Modification Analysis:

Exhibit E-1 shows that the modification will not cause any interference overlap to any existing facility, and its 60 dBu contour will be completely contained within the 60 dBu contour of its WJMQ(FM) primary facility, shown in exhibit E-2. The translator is to be located at coordinates:

44-43-40 N 88-45-27 W NAD 27.

The facility will employ a single bay Shively 6812B nondirectional antenna, and operate at 0.010 kW ERP at a COR AGL of 9 meters.

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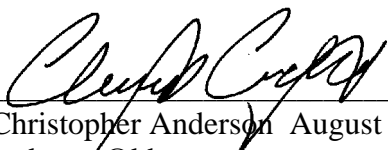
Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

RF Exposure Calculation:

The RF exposure from the 0.010 kW facility was evaluated using the Commission's FMMODEL program for the single bay Shively 6812B antenna. The resulting RF is $2.9 \mu\text{W}/\text{cm}^2$ at a distance of 7 meters from the base of the tower, which is well below the $200 \mu\text{W}/\text{cm}^2$ permissible for general public exposure, and less than the 5% requiring consideration.

Conclusion:

It is concluded that the modification of W296BE complies with all Commission rules and policies.



Christopher Anderson August 13, 2009
andersce@bham.rr.com
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E1 W296BE MODIFICATION TO CHANNEL 243 CHANNEL STUDY

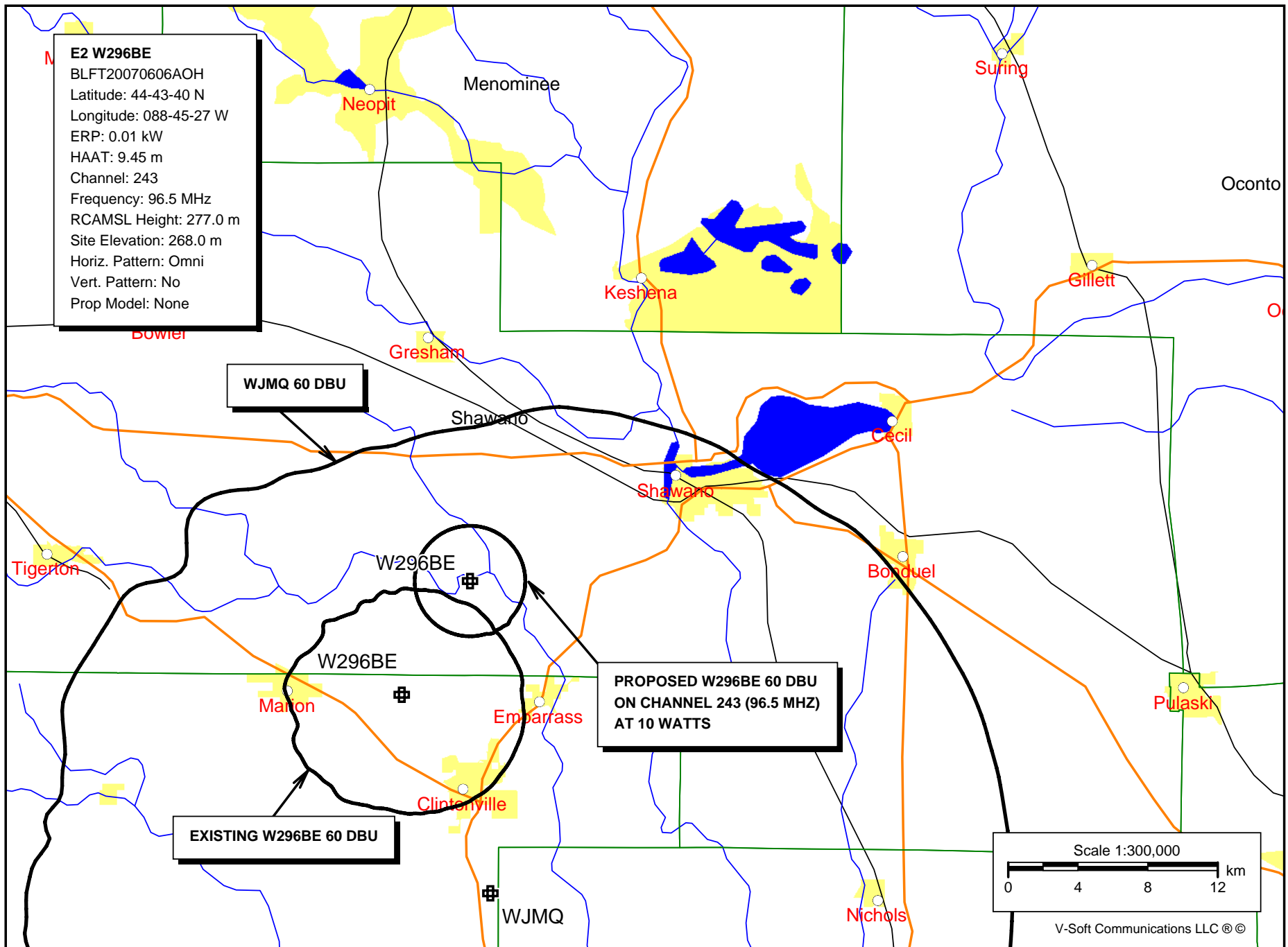
REFERENCE
44 43 40.0 N.
88 45 27.0 W.

CH# 243D - 96.5 MHz, Pwr= 0.01 kW, HAAT= 11.7 M, COR= 277 M
Average Protected F(50-50)= 3.15 km
Omni-directional

DISPLAY DATES
DATA 08-08-09
SEARCH 08-11-09

| CH CITY | CALL | TYPE STATE | ANT STATE | AZI <-- | DIST FILE # | LAT LNG | PWR(kW) HAAT(M) | INT(km) COR(M) | PRO(km) LICENSEE | *IN* (Overlap in km) | *OUT* |
|----------------------|---------|---------------|--------------|----------------|--------------------------|--------------------------|--------------------|-------------------|-------------------------------------|-------------------------|-------|
| 243C3 Rhinelander | AL3858 | VAC WI | --- | 340.8 160.5 | 110.1 RM11045 | 45 39 43.0 89 13 25.0 | 25.000 100 | 112.9 592 | 38.4 | -6.0*< | 61.5 |
| 242C2 Peshtigo | WSFQ | LIC WI | _CN | 58.1 238.7 | 83.8 BLH19960805KB | 45 07 19.0 87 51 07.0 | 49.000 147 | 76.8 346 | 51.1 Armada Media-menominee, Inc | 3.9 | 28.3 |
| 246D Shawano | DW246AZ | CP WI | _C_ | 59.4 239.5 | 11.6 BNPFT20030827AIE | 44 46 51.0 88 37 52.0 | 0.250 | 1.1 279 | 7.1 Starboard Media Foundation | 7.4 | 4.3 |
| 244C2 Whiting | WLJY | LIC WI | _CX | 264.3 83.5 | 87.4 BLH20090713ABV | 44 38 39.0 89 51 12.0 | 26.500 207 | 77.8 559 | 52.7 Nrg License Sub, LLC | 6.4 | 30.2 |
| 240C3 De Pere | WKSZ | LIC WI | NCN | 123.6 304.1 | 73.8 BLH19960529KC | 44 21 32.0 87 59 07.0 | 4.500 236 | 3.6 479 | 41.3 Woodward Communications Inc | 67.0 | 32.3 |
| 245A Oshkosh | WWWX | LIC WI | _CN | 165.6 345.8 | 72.0 BLH19911129KB | 44 06 01.0 88 32 02.0 | 6.000 100 | 2.5 333 | 24.9 Wi Radio, LLC, As Trustee | 66.4 | 46.8 |
| 244C3 Algoma | WBDK | LIC WI | NC_ | 90.8 271.7 | 107.0 BLH19991012AAX | 44 42 26.0 87 24 26.0 | 8.000 164 | 54.3 360 | 36.2 Nicolet Broadcasting, Inc. | 49.6 | 66.4 |

Terrain database is FCC NGDC 30 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 = 2, Co to 3rd adjacent.
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 protected contour.



TOWAIR Determination Results

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates

| | |
|-----------|------------------|
| Latitude | 44-43-40.0 north |
| Longitude | 088-45-27.0 west |

Measurements (Meters)

| | |
|--------------------------------|-----|
| Overall Structure Height (AGL) | 9 |
| Support Structure Height (AGL) | 9 |
| Site Elevation (AMSL) | 268 |

Structure Type

TOWER - Free standing or Guyed Structure used for Communications Purposes

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW