

Technical Report W296BE Minor Modification

This technical report is submitted for a minor modification to W296BE at Clintonville, WI, FCC file no. BLFT-20070606AOH. A change in tower site, antenna and ERP is requested, in addition for the facility to 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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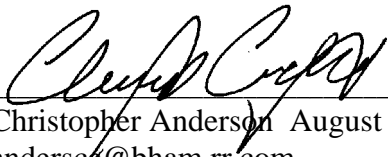
Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

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 11, 2009
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E1 W296BE MODIFICATION TO CHANNEL 243 CHANNEL STUDY

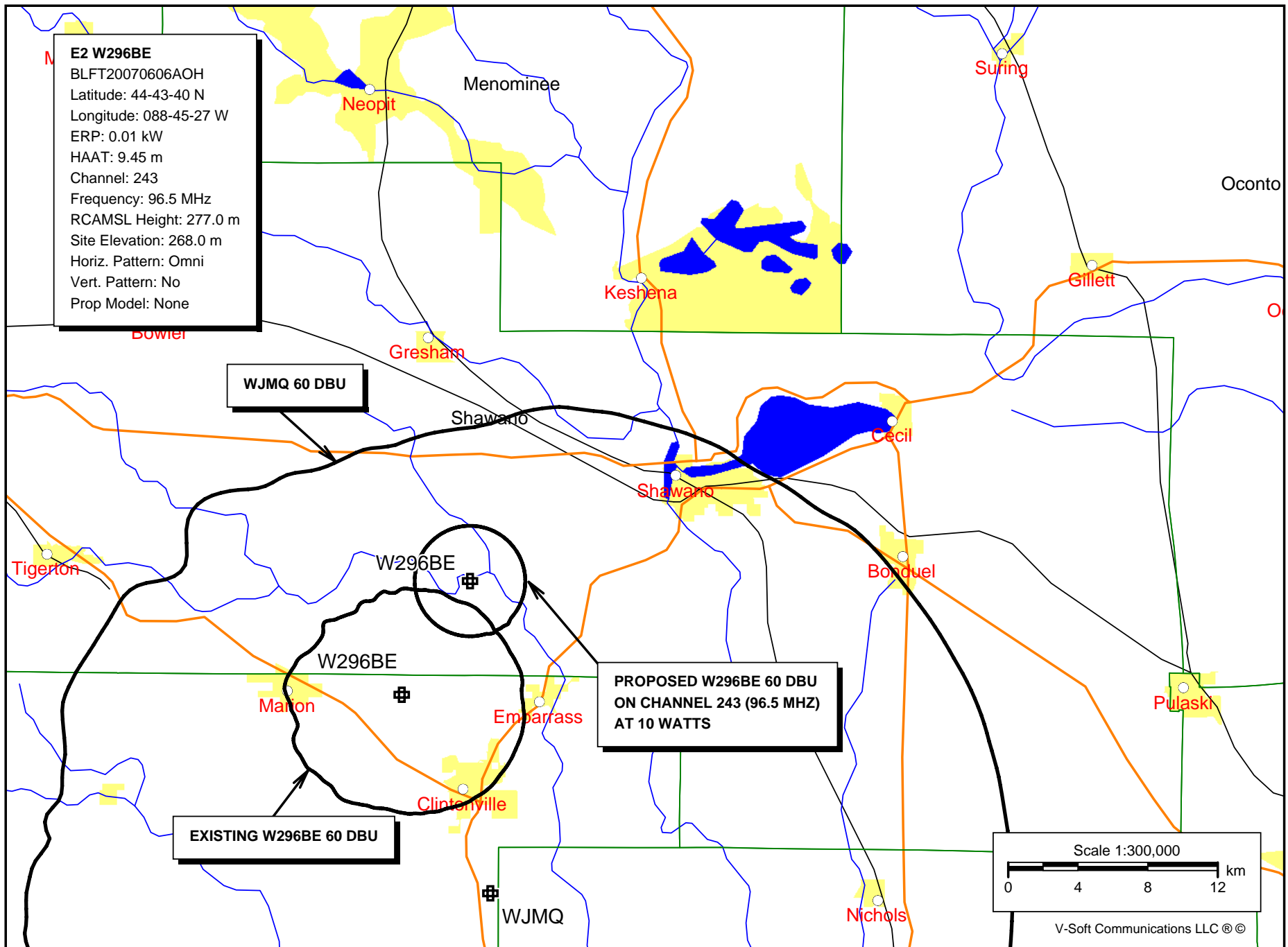
REFERENCE
44 43 40.0 N.
88 45 27.0 W.

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