



**EXHIBIT #1
ENGINEERING STATEMENT**

Milwaukee Board of School Directors

Minor Change To
WYMS
BMLED19820930AA
Channel 205 – 1.45 kW H & V
Milwaukee, Wisconsin

June 2005

CH 205B1

1.45 kW H & V

This engineering statement supports the application of the Milwaukee Board of School Directors to make a minor change to NCE FM station WYMS, Milwaukee, Wisconsin to correct the transmit coordinates, change to a circularly polarized antenna, decrease power and increase antenna height. There are no further changes at this time.

A 60 dBu coverage map is included as Page #3. A total of 8 evenly spaced radials were used to determine the antenna height above average terrain. The N.G.D.C. 30 arc second database was employed to determine the elevations along the radials that were averaged using the required four-point interpolation method. The resulting averaged radial antenna heights were employed using the Commission's own TVFMINT algorithm to project the distances to signal contours. A tabular listing of the distance to the one mV/m contour of the modified facility can be found on page #4 of this exhibit.

Exhibit #15 is an Allocation Report. The first page is a computer channel study of all stations having a frequency and distance relationship. The exhibit gives current operating powers, HAAT's bearings and distances. (All distances were computed according to the method described under Section 73.208 of the Commission's Rules.) The second page is a narrative of the methods and conventions used in the report. There are no pertinent I.F. relationships and the station is okay with regard to Canada, Mexico, AM stations, FCC monitoring stations, Table Mountain and the West Virginia Quiet Zone. There are two existing contour overlaps with WMXM, Lake Forest and WBSD, Burlington. The instant proposal will not exacerbate either overlap. Pages 3-6 consist of a map and FMOVER report with the proposed facilities relationship with co-channel station WMXM. For comparison purposes, an FMOVER table using WYMS's

licensed parameters is included as pages 7-9. At no point on the overlap arc does the proposed interference signal value at the protected 60 dBu exceed that of the existing facility.

The same information (pages 10-14) is provided regarding the relationship between the proposed facility and first adjacent WBSD, Burlington.

Exhibit #18 concerns protection to television channel six. WYMS is co-located with WITI, Milwaukee.

Exhibit #22 is an R.F. emissions compliance statement.

Page #5 of Exhibit #1 is a statement of the qualifications of the preparer.

Kate Michler

WYMS Proposed 60 dBu Coverage Area

WYMS

Modify BMLED-19820930AA

Latitude: 43-05-26 N

Longitude: 087-53-50 W

ERP: 1.45 kW

Channel: 205

Frequency: 88.9 MHz

AMSL Height: 484.0 m

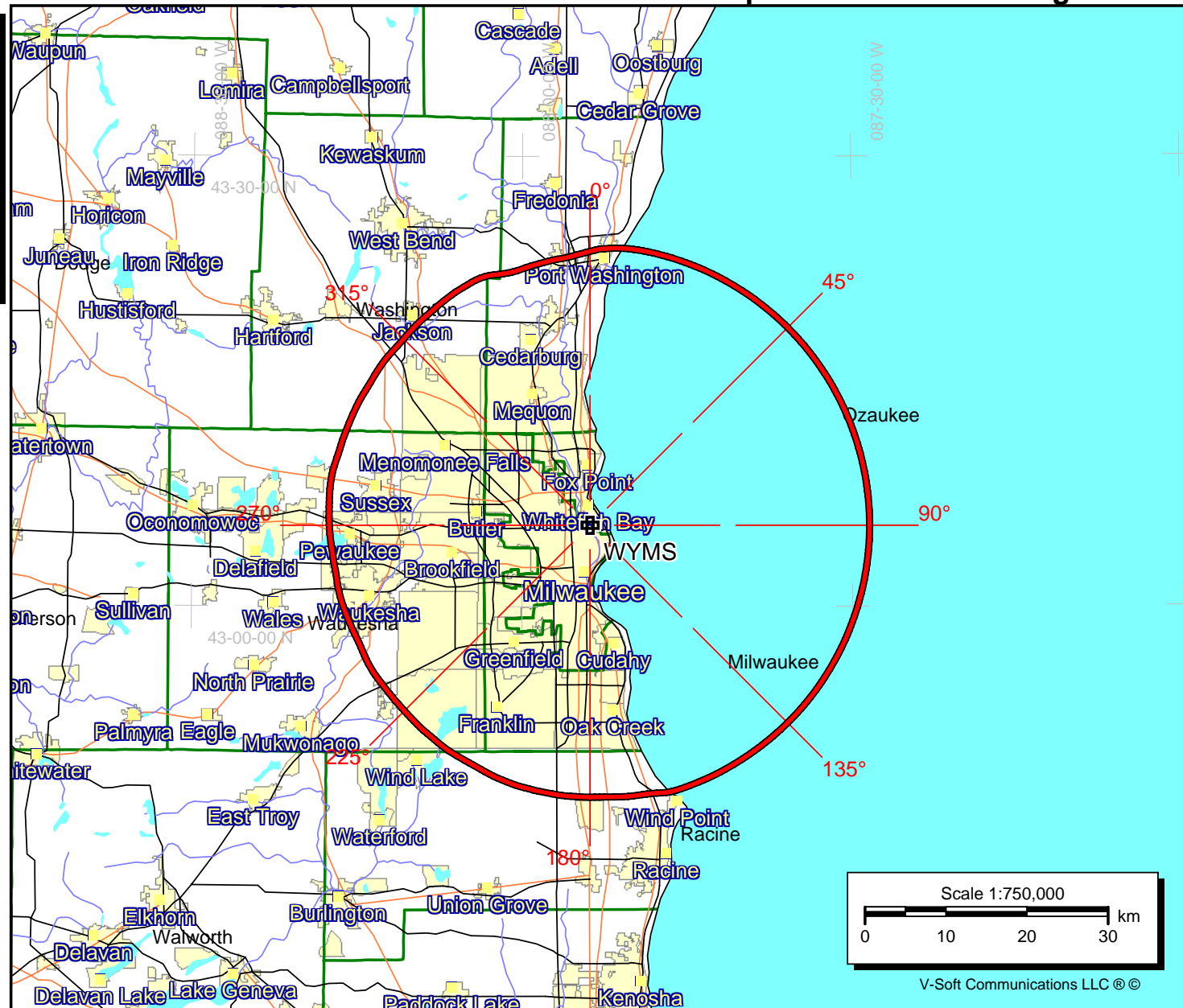
HAAT: 288.98 m

Horiz. Pattern: Omni

Vert. Pattern: No

6/15/2005

V
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Telecommunications Consultants



V-Soft Communications LLC ©

N. Lat. = 43 05 26 W. Lng. = 87 53 50
 HAAT and Distance to Contour - FCC Method - 30 Arc. Sec.
 WYMS - Modifies BMLD-19820930AA
 Azi. AV EL HAAT ERP kW Field 60-F5

000	189.8	294.2	1.4500	1.000	33.78
045	177.0	307.0	1.4500	1.000	34.47
090	177.0	307.0	1.4500	1.000	34.47
135	177.4	306.6	1.4500	1.000	34.45
180	194.2	289.8	1.4500	1.000	33.54
225	214.4	269.6	1.4500	1.000	32.37
270	218.1	265.9	1.4500	1.000	32.14
315	212.2	271.8	1.4500	1.000	32.50

Ave El = 195.02 M HAAT= 288.98 M AMSL= 484

Declaration:

I, Katherine A. Michler, have received a Bachelor of Science degree from the University of Northern Iowa, and;

That, I declare that I have received training as a technical consultant as a member of the staff of Doug Vernier Telecommunications Consultants, and;

That, I have apprenticed under Douglas Vernier for over seven years, and;

That, he has been active in broadcast consulting for over 30 years, and;


That, his qualifications are a matter of record with the Federal Communications Commission, and;

That, I am an Associate Member (#20792) of the Society of Broadcast Engineers, Indianapolis, Indiana, and;

That, the consulting firm of Doug Vernier Telecommunications Consultants has been retained by the Milwaukee Board of School Directors;

That, I have personally prepared these engineering showings, the technical information contained in same and the facts stated within are true to my knowledge, and;

That, under penalty of perjury, I declare that the foregoing is correct.

 Katherine A. Michler

Executed on June 15, 2005