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Report of Test 6810-1D-DA

for

BOARD OF REGENTS, UNIVERSITY OF WISCONSIN

WVSS 90.7 MHz MENOMONIE, WI

OBJECTIVE:

The objective of this test was to demonstrate the directional characteristics of a 6810-1D-DA to meet the needs of WVSS and to comply with the requirements of the FCC construction permit, file number BMPED-20010723ABY.

RESULTS:

The measured azimuth pattern for the 6810-1D-DA is shown in Figure 1. Figure 1A shows the Tabulation of the Horizontal Polarization. Figure 1B shows the Tabulation of the Vertical Polarization. The calculated elevation pattern of the antenna is shown in Figure 3. Construction permit file number BMPED-20010723ABY indicates that the Horizontal radiation component shall not exceed 0.59 kW at any azimuth and is restricted to the following values at the azimuths specified:

125-185 Degrees T: 0.28 Kw

From Figure 1, the maximum radiation of the Horizontal component occurs at 317 Degrees T to 052 Degrees T. At the restricted azimuth of 170 Degrees T the Horizontal component is 4.152 dB down from the maximum of 0.59 kW, or 0.23 kW.