

WYLO RADIO

FIRST ON THE DIAL AT 540

5567 North 36 Street
Milwaukee, WI 53209

March 5, 1974

universal broadcasting of milwaukee, inc.

Mr. Stanwood R. Morss
RR# 3
Bradford, MA 01830

p.o. box 3096
milwaukee, wisconsin 53218
area code 414-353-5300

Dear Stanwood,

In response to your recent report, we are pleased to verify your reception of our equipment test over WYLO Radio, on February 25, 1974, from 2:30 to 2:38 am, CDT. Your reception was 8th best, distance wise, in that Bradford (Haverhill) is 857 miles from Jackson. I received another report from Mass. from Raymond Arruda, North Dartmouth. He reported reception as extremely weak. Farthest letter was from NW California.

WYLO is 0.8 mile NE of Jackson, Wisconsin, a town of 691, located 23 air miles NW of Milwaukee, our exact site being $43^{\circ}20'00''$ N., $88^{\circ}09'13''$ W. Waylow began regular broadcast operations on May 1, 1964.

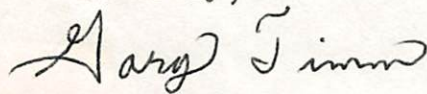
The Big Country Sound is a daytime only station, operating with a power of 250 watts, on 540 kHz, a Canadian clear channel, making us ineligible for any pre-sunrise authorization. The directional radiation pattern resembles a four-leaf clover. Our major lobe is on a bearing of 174° , in a southern direction. Minor lobes are NE at 70° , West at 280° , and North at 352° . The nulls are NE at 33° , East at 92° (protecting CBEF, Windsor, Ontario), SW at 253° (protecting KWMT, Ft. Dodge, Iowa), and NW at 316° (protecting CBK, Regina, Saskatchewan). You are located 93 miles north of the bearing of our east null.

The WYLO antenna system consists of three series-fed, uniform-triangular-cross-section, guyed towers, in an in-line array on a bearing 354° . The end towers are each a distance of 90° (456 feet) from the center tower, with the base of each tower at an elevation of 842' above mean sea level. The radiating portion of each tower is 320' (63°), with top loading using horizontal cables, interconnecting the 80.3' of each of the three guy wires, just above the top insulator, thus simulating a height of 74'. With each tower built on a 4' high, concrete base, the top of the tower is at 1166' above mean sea level.

The antenna ground system utilizes 237,000' of #10 copper ground wire, and 2,900' of 4" copper ground strap. Some 240 ground rods, spaced at 1.5' intervals, radiate out from the base of each tower, to alternate lengths of 200' and 470'. All towers are interconnected by the copper bonding strap, which then continues on into the transmitter building. The studios and transmitter are housed in a building just south of the antenna array. We use a Gates BC250GY transmitter, with most other equipment made by Collins, including phasor cabinet, audio board, and cart machines.

Again, thanx much for your report, and best of luck in your DXing .

Sincerely,



Gary Timm
WYLO Staff Engineer