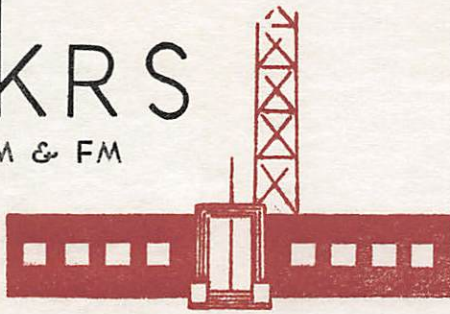


WKRS
AM & FM



Telephone: Ontario 9000
1,000 watts am • 1,220 kilocycles
12,000 watts fm • 106.7 megacycles
owned and operated by The Waukegan News-Sun
Post Office Box 500 • Waukegan, Illinois
Joseph B. Kirby • General Manager

●
November 2, 1949

Mr. J. W. Brauner
23 Howard Avenue
Williamsville 21, New York

Dear Mr. Brauner:

Thank you very much for your report of October 30, 1949, concerning reception of radio station WKRS from 4:55 to 5:15 P.M., CST. This letter is to confirm the items and announcements heard during the broadcast period that you monitored. Thank you also for your comments on the signal quality of WKRS.

WKRS is the AM sister to WKRS-FM, which has been operating on 106.7 megacycles (channel 294), since July 25, 1948. WKRS, authorized to operate with 1,000 watts on 1220 kilocycles, commenced its program test on September 25 of this year. The station employs Western Electric speech input equipment, microphones, limiting amplifier and Gates Model BC1F one kilowatt transmitter. Phasing equipment is by Gates, and the two tower directional array employs a Blaw Knox type CFN insulated, self-supporting vertical radiator 320 feet over all and a Wincharger type 101 insulated guyed cross-section vertical radiator 228 feet over all.

WKRS-FM shares studios and control facilities with its AM affiliate and employs a Western Electric Model 504B2 three kilowatt FM transmitter, working into a Western Electric Model 54A eight bay cloverleaf antenna mounted on top of the CFN tower, giving an effective radiated power of 12,000 watts.

Undoubtedly, the reception of our signal at Williamsville was due to sky wave, and even considering the peculiarities of sky wave it was quite a surprise to me to realize that you could receive WKRS with such clarity through WCAR in Cleveland. Our directional array was primarily designed to protect WCAR on 1220 kilocycles, as well as WKAM, Warsaw, Indiana, operating on the same frequency. WCAR operates with a directionalized power of 50,000 watts instead of 5,000 as you stated, and our radiation along the radial to Cleveland is limited to approximately 70 watts.

Mr. J. W. Brauner

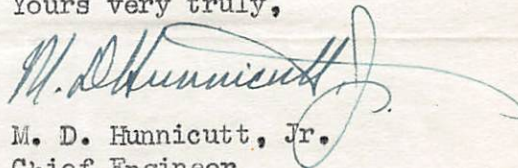
-2-

November 2, 1949

I will appreciate any further reports on either WKRS or WKRS-FM.

With my very best wishes for continued DX listening, I am

Yours very truly,

A handwritten signature in blue ink, appearing to read "M. D. Hunnicutt, Jr.", with a large, decorative flourish extending to the right.

M. D. Hunnicutt, Jr.
Chief Engineer

MDH/mz