

# WAUX

# radio am / fm

330 WISCONSIN AVE. • WAUKESHA, WISCONSIN • LIBERTY 2-6636  
BROADWAY 2-4311

March 29, 1963

Mr. David F. Thomas  
Procterville, Ohio

Dear Mr. Thomas:

Thank you very much for your fine reception report dated February 25, 1963.

The Waukesha Broadcasting Company has gone through a number of expansion programs since your verie in 1947 so we would like to tell a litte of our history and operation which may be of interest to you. WAUX began regular programming on March 26, 1947 and operated with 250 watts carrier power (non-directional) until September 1, 1961 when we began programming with our new Collins 21M transmitter, 10kw. Our audio equipment at the AM transmitter consists of a program controlled expander/compressor amplifier similar to the WLW Comex automatic amplifier, with modifications. This is followed by a Symmetra-peak unit in cascade with an instantaneous action peak limiter of our own design which feeds the transmitter. This system and a strong maintenance schedule allows us to maintain an extremely high average modulation level, flat 30 cycles to 12 kilocycles with less than 2% overall harmonic distortion studio to antenna, and without pumping or increase in noise level during absence of program. Most listeners can hear the difference. Our transmitter plant and three tower in-line radiating system is located ten miles southwest of Milwaukee. Our directional pattern is reproduced on the reverse side of this letter. Incidentally, you will find that we are still radiating approximately 250 watts, in your direction!

We are pleased to confirm your report of our signal during the period 0305 to 0333 on February 25, 1963.

Very truly yours,

RADIO STATION WAUX



Adin E. Randall  
Chief Engineer

AER:tz