

19 October 1968

Serving Influential
Metropolitan Baltimore

WTOW

102 FM / 157 AM

ONE INVESTMENT PLACE
BALTIMORE, MARYLAND 21204

301 / 823-1570

Mr. Kermit Geary,
RD 2, Box 298,
Walnutport, Penna, 18088

Dear Mr. Geary:

I am pleased to be able to confirm your report of reception of our FM signal in your location. It is seldom that we get reports on FM reception, it seems that most IRCA members concentrate on AM reception.

Our FM is stereo, and has been so since 1961, when it was moved from an "in-town" location to the present location of our AM/FM towers on the outskirts of Towson, Maryland.

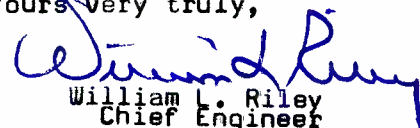
We broadcast a horizontally polarized signal at 20 KW ERP, and at that time were in a test period using a new 10 KW CCA FM transmitter (it's second day on the air), with power scaled down to 3.5 KW output into a 1 5/8 Prodelin Co-axial cable reaching 148 feet underground to a 200 foot AM tower, on which we have mounted eight bays of Jampro FM radiators with a power gain of 7.2. It is surprising that we reached you that well, since our antenna is oriented in the exact opposite direction from you, although presumably (engineering-wise) radiating a nearly circular non-directional pattern.

The actual height of the antenna array would be difficult to determine exactly, since eight bays are concerned, and each bay must be situated exactly one wave-length apart, and the array must terminate at least 15 feet below the actual top of the tower

As best as we can determine from the program log for that time your report is accurate, with only two exceptions...the promotional announcement for the 6 to 10 AM show is NOT country oriented, and the public service announcement concerning United Appeal was by Dale Anderson, Baltimore County Executive Officer, not Henderson.

Thank you for your good wishes, we are now in a phase of reconstruction, changing the orientation of our 5 KW 1570 KC AM pattern to a more north/south polar pattern, changing our studio location from the "country-side" to a new building in the center of Towson, replacing all old audio equipment with solid-state devices with the aim to terminate reconstruction by moving the FM radiators to a 130 foot "Unipole" tower atop this 546 Foot building, and increasing our effective radiated power to 50 KW (25 horizontal and 25 vertical). When this is completed you should have no difficulty at all in reading our signal. Try us on AM too, since we should have the new pattern in operation by the time you receive this letter. AM is a daytime station, now on the air from 7:15 AM EDT to 6:30 PM EDT, at 1570 Kc/s. If you are successful in logging the AM, please be sure to let us know.

Yours very truly,


William L. Riley
Chief Engineer