

1090 KHZ .



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PHIL ROBERTS, Manager

January 16, 1969

Dear Kenmit:

Thank you very much for your letter of signal report on our equipment tests during the experimental period of the morning of January 13, 1969. Your letter described a very good skip signal into the ~~PA~~ Pennsylvania area.

Your assumption of a 1000 watt transmitter was caused by my assistant engineer identifying the station as operating at 1000 watts and possibly you thought we were doing so then but we weren't.

Our reason for being on in the experimental period was to test some new equipment involved in taking our transmitter power~~x~~ output at low power position of 250 watts and reducing that to our new Pre-Sunrise Authorization power output rating of 7.85 watts!

To explain a rather complicated situation let me say that on 1090 kilohertz there are two class 1B stations: WBAL in Baltimore, Md. and KAAZ in Little Rock, Ark. There are many class 1A stations like WGOC on 1090 Kilohertz some with powers of 5000 watts or more! Since the class 1B stations are fulltimers they must do something to be able to operate simultaneously; so they operate directional; KAAZ a bipolar nighttime pattern approximately NNW by SSE and WBAL a "half-circular" pattern arranged to cover the East coast nighttime with all stations on 1090 Kilohertz or at least most of them omni-direction daytime since distance is used then to keep interference down. Since we aren't able to sign-on until the sun rises with 1000 watts we will not interfere with them. There is a power~~x~~ output rating however that will permit us to operate "pre-sunrise" without bothering them yet allowing us to serve our town with a reasonable power with additional time and that is 7.85 watts. The advent of very low power commercial broadcast stations has revolutionized the business. Extreme care must be taken with the antenna system so the very low power~~x~~ will also be very efficient however~~x~~. We have accomplished this as you have heard. So let me add a rare piece of DX to your files.

Kermit, when all of the paperwork is completed on this type of operation i will mail to you a list of other stations like WGOC who have decided to dive into the field of very low power operation. I'm sure that they, like us, eventually will be on the air during the experimental period testing their low power operation and will QSL you also.

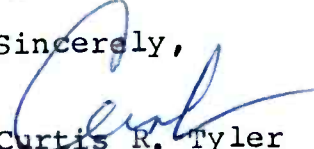
Also when i get some regular BC DX QSL cards i will send you one complete for your files as your letter will go in my personal file and will be marked to mail a QSL card for the low power signal report.

Kermit as you may have guessed I'm also an amateur radio operator (Conditional Class from a few years back) either too lazy or too busy to move to the higher class amateur tickets. Conditional class gives me all band operation which is all i really want, tho. Also I'm a very poor typist as you can see but i am in a little rush at the moment wanting to get some type of reply out to you.

Kermit, I must get back to the shaft=mine now but will be awaiting any questions you may have pertaining to the business or anything else i can help you with.

Again I thank you very much for the signal report.

Sincerely,



Curtis R. Tyler
Chief Engineer WGOC RADIO