



Gale H. Johnson,
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Long Beach Calif.

Dear Ed;

I see you'r ad in the Western Radio Amateurt that you were compiling data on western commercial stations and I presumed that this would include U.S. Naval stations as well.

I took these pictures while I was attached to U.S. Naval radio station Keyport Wash. call N.P.Z. remote control transmitter for N.P.C. Bremerton Navy Yard Bremerton Wash.

The Towers were 400 ft. high and non guyed, also insulated from ground being built on groups of large insulators. Although these towers were operated grounded except for tests. There were two such towers 1917 to 1919 I understand later the third one was built.

The transmitters were a 30 KW Poulson Arc 2000 meter calling freq; 10500 meter working freq. This was one of the few absorbtion type transmitters, key open the signal was absorbed in a dummy circuit key down the dummy circuit was opened and the signal went out to the antenna. The Arc was 500 Volts DC which burned in alcohol gas for deionizing, Some of the alcohol never found its way to the Arc chamber.

The spark transmitter was a 5 KW 500 cycle quenched gap at freq. of from 500 to 1500 meters as I remember it.

Receiver was a one tube DeForest audion detector with tickler coil on right side top of the I.P.76 receiver. In the picture the tube Western Elec No.? tube as it usually took at least two DeForest tubes to a 8 hours watch, using both filaments.

This transmitter was not completed at the out-break of World War One. Messages were sent from Bremerton to Keyport over a phantom phase telegraph line using the power Co. telephone line, so all messages were sent in Morse Via. sounder, then put on the air in Continental code this was somewhat a problem for some of we Hams. This station was operated this way about a year before a cable was run into Navy Yard so the station could be operated remote control.

The motor generators were for ARC and Spark transmitters. The Main incoming line was 6600 volts stepped down to 230 volts and two ,two or three step motor starters.

If there is any other data on this station that you can think of please let me know and I will try to fill the blanks.

I was originally 7GJ 1913 to 1917 after war W7AB till I moved to Long Beach Calif. and was given the call of W6AG.

Hoping that these pictures and dope will be of some use in compiling data for your history of early radio stations on the West Coast I remain;

You'rs truly 73

Gale H. Johnson
W6AG.