These operations proceeded with equipment of the following kind.

- Bear c. J. S. Porter, BD.
- Beaver c. E. S. Porter ass'il. BD.
- Fl. c. Governor G. W. Fa'c'en.
- Bear c. W. & B. d. China was W. A.
- Atlas was G. M.
- W. Y. Newby on her.
- Persia - W. T. 9 was on her.

-- Joe in D. 32.

Society of Wireless Pioneers - California Historical Radio Society
At first we used noisy open SPK gaps. The first innovation on this was a rotary SPK gap, a small improvement. Later a synchronous gap was designed which gave out the inspiring note of a saw-mill negotiating a knot in lumber.

The first quenched gap I ever saw was one I installed on Borden's very. Maht, the Adventurers around 1914 - at that time I was installing for Marconi, Sprado and Moorhead were my helpers. On the Pacific Coast, the Navy
was the first to put radio on the air using 500 cycles instead of 60 cycles. This gave a musical note and was very popular.

About this time Federal Red came out with the arc which for the first time put out an undamped wave but with a hell of a lot of "mush" with it.

While working for Navy I dealt with arcs a lot. I tried to eliminate the objectionable side interference then called "mush". This mush was eliminated simultaneously with the arc.

That was when we began creating CW with vacuum tubes.

Hell I talk too much!

Hubbard.