

N. Main St.
Wolfeboro, 03884
12/15/76

Dear John,

Just a report on the
Wolfeboro Repeater which is now operating
under what we call hostile environment,
conditions. The temp this morning is just
20°f and its still plugging away.

The ^{duplexers} have not been
touched since you so kindly installed them.
They have maintained their stability in
great shape and we are completely happy
with their performance.

You will no doubt recall
the difficulty experienced in getting all of the
^{desensitizing} down to a minimum. I know
at the time you were not completely satisfied
with the final performance but it seemed
quite adequate for operation. Well we
found the source of the stray RF - and
quite by accident too.

We had a walkie talkie
at the site during some amplifier adjustments
we were making at the site and noticed that
we still had some RF indications after normal
shut down. (Power on ~~VCC~~ off). This was a
complete mystery. However in ^{prodding} around
in the rack with the walkie talkie and
its rubber duck antenna, we located the ^{emissions}
coming from the low voltage power
supply. The 6030 regulator chip was putting
out like a small transmitter - and there was
it.

The end result was a redesign of the power supply with a new circuit a different chip and no extraneous RF floating around the shack.

Reinstallation of the Interface and control equipment and test for possible desensitizing indicated the problem cured and now with full legal power the whole function is operating to our satisfaction.

As a result of our relocation to the present site. (we moved last May) we have been assigned new call letters and instead of the original WR1ADP we are now WR1AJH. which is a function of FCC regulations.

In behalf of the Association I would like to express our thanks and appreciation for the very great help you have been to us, and to send this report along to you in recognition of the fine workmanship put into the duplexers and the engineering that went into their development.

Sincerely
Ellis F Miller W1JG
Tech Committee LARRA