**447.650 MHz Repeater Move**

On October 15th, the club’s UHF repeater was moved to the ARES/RACES shed and tower. 7/8 inch hardline coax, the new tower bracket, the Scala antenna, lightning protection, the repeater, and the transmitter amplifier have been moved and installed and are now back up and running. The repeater is now putting out about 60 watts of power and the C4FM digital mode is now turned on. The repeater will automatically switch from FM to C4FM, as it detects a mode change.

The height of the antenna is about the same, but the antenna is now side mounted on the ARES/RACES tower. It is possible that the tower may have adversely impacted the radiation pattern. Initial reports indicate that the signal strength and sensitivity of the repeater are down. Doug NO1D feels that there is an intermittent problem that is causing the repeater performance to be way down from where the initial performance tests were after the installation. Doug plans to get back up on Mt. Union within the week to narrow down what the problem is.

The output of the repeater now has a 100 Hz PL tone. If you don’t have a Yaesu Fusion radio and don’t want to hear the digital signals, you can set your receiver to only come on when it decodes the 100 HZ PL. Depending on your radio, this feature might be called Tone Squelch, sometimes full CTSS, or Decode Squelch. Refer to your radio’s manual to set this feature.

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