

Mt. Hebo Repeater Group

Rev. 2 – May 04, 2007

The 147.220 repeater on Mt. Hebo was completely destroyed by lightning in December 2000. The repeater group was formed by Amateur Radio operators interested in rebuilding and maintaining the system. Primary coverage and service area for this repeater is Tillamook County and North Lincoln County.

The group consists of all those who have contributed to the project. MHRG is the sponsor and is managed by Carl Somdahl, W7LI. The call sign on the repeater belongs to Daryl Creech, W7HNR, who is the coordination trustee. MHRG maintains a bank account for maintenance purposes.

The W7HNR call sign is unique in that it was the original call of Ed Weston who built the system back in the early 1970's. Daryl Creech is the grandson of Ed Weston.

Repeater technical support and maintenance is provided by W7HH, N7HQR, W7LI, W7HNR, MHRG members, and the Oregon Coast Repeater Group.

MHRG has a site agreement contract for operation of the repeater at the South Point county facility on Mt. Hebo. MHRG has agreed to provide this repeater to the Tillamook County Department of Emergency Management as a primary point of communications due to its wide coverage and reliability.

The repeater supports both RACES and ARES activities within Lincoln and Tillamook County, but is not associated directly with any other radio clubs or organizations. In the event of an emergency, the 147.220 may be closed to all outside traffic at the discretion of the Emergency Manager for either county, control operators, trustee, or the administrator.

The Mount Hebo Repeater Group maintains its own financial resources and contributions can be designated "Mount Hebo Repeater Group" and sent to Carl Somdahl, W7LI, P.O. Box 605, Pacific City, Oregon 97135. A community bank account for this purpose is maintained at U.S. Bank in Cloverdale, Oregon.

The MAIN repeater is located on a secured and limited access site 20 miles south of Tillamook at 3100 feet above sea level. Equipment is as follows:

GE Master II Repeater, 100 watts Output continuous duty,
Tone Access is 100.0 Hz.

Advanced Receiver Research P144VDG GasFet Preamplifier (24 dB gain)

Link Comm RLC Squelch Module

Link Comm RLC-Club computer programmable voice controller

RLC-Club controller includes auto-patch capability for future use

Separate Antenna Filters and Transmit Isolator

Telewave ANT150F6-2 6dBd gain Collinear omni Receive Antenna at 70 feet.

Sinclair SC-229B 6 dBd gain Collinear omni Transmit Antenna at 40 feet.

Polyphasor Lightning Protection – All Heliac Feedlines

G.E. Battery Backup and Transfer Circuit

D.C. Battery (Heavy Duty Marine)

Onan Emergency Generator (Automatic Operation).

C.A.T. WX-200 Controller provides rebroadcast of all NOAA SAME emergency alerts on this repeater courtesy of the Oregon Coast Repeater Group (W7GC).
