

July 22, 1994

Bill Nittler
PO Box 824
Mancos, CO 81328



Good Morning!

Thank you very much for the signal report from our station KLCO on July 10th. Your report is accurate.

KLCO is a 3200 watt (H & V) station licensed to Lane Community College in Eugene, and is a satellite of the main outlet KLCC (81Kw H and 54Kw V), also in Eugene. It's located in a marvelous part of the world known as the Oregon Coast, about 9 miles north of Newport at a place called Otter Crest. The actual transmitting site is about a mile inland from the ocean at an elevation of 1100 feet AMSL.

We installed it about 4 years ago to serve coastal communities. The coast is cut off from the inland portions of Oregon by the Coastal Range which effectively blocks most FM reception.

What you heard at 7:30 on July 10th was the end of a days broadcast from the Oregon County Faire. We do a 3 day, live stereo remote each year from a wooded site about 20 miles west of Eugene and it's an engineering challenge to say the least. We rent a 19 ft RV trailer and set up a temporary studio behind the music stage with digital and cassette recorders, microphones, audio processing, digital editor (to edit interviews of people), and off-air monitoring. This year the remote was complicated by the fact that the announcers wanted to be out with the crowds so we set up a battery powered mixer and moved the microphones out of the trailer to this other location about 500 ft away. Cable was strung between that site and the trailer to allow audio, intercommunications and phone capabilities there. We get a stereo music feed from the professional sound reinforcement people so at least we don't have to mess with all that mikeing! We then send the stereo audio through about 800 feet of audio cable strung (literally) through the tree tops to a pair of 15 watt, 450 MHz transmitters at the highest location on the property to relay the R & L channels back to our transmitting tower in Eugene and then a pair of 950 MHz links to get it to our studio. We run it through our audio board and it then travels over a 950 MHz microwave system to get back to our main Eugene transmitting location and then two more hops before it gets to the KLCO transmitter! So what you heard came through a process almost as amazing as your hearing a 3 Kw station from Oregon.

This is a long and perhaps boring way of confirming your reception! Good luck in future DXing. I'd love to have a report on our main transmitter at 89.7 MHz if it ever happens.

Sincerely,

John Bredesen
Chief Engineer