

**Project: Wind Monitoring
Station**
Client: Hoover Dam
Location: Las Vegas, Nevada
Year: 2002

Application Notes:

Hoover Dam is located about 10 miles southeast of Las Vegas, Nevada. It is one of the largest dams in the United States and creates Lake Mead on the Colorado River drainage. West Wind Laboratories of Corina, California were contracted to do a wind study as part of preparation for building a bridge across the canyon. Currently all traffic through the area must travel across the Hoover Dam. The bridges purpose will be to allow traffic to move more smoothly by creating a bypass.



Installation and System Design:

The Westwind Laboratories selected a site, and IEI personnel installed a 10 ft. tripod instrument tower (IT10). To the tower we attached an enclosure that housed a data logger (CR10X) cellular digital packet modem (COM405), and sensors to monitor wind speed and direction (WS5103).



West wind Laboratories personnel can monitor and collect data from the site via an Internet link. At their office in California they use PC208W Data logger Support Software to communicate with the wind-monitoring site via the Internet.

The system is powered by a 7 Amp Hour battery, (PS12LA) that is trickle charged during the day with a 10-watt solar panel (SX10).

Intermountain Environmental has been contracted to maintain the sites annually for several years. Each spring, IEI personnel visit the site, clean and calibrate the sensor, check the tower and mounting fixtures, test the power supply, and change out the desiccant in the enclosure.

For Information on this project or these products please contact:

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Intermountain Environmental personnel making final adjustments to CDPD modem antenna.