



City of Santa Fe Water Division

PRV STATION REMOTE MONITORING SYSTEM INFORMATION SHEET

The City of Santa Fe Water Division is scheduled to begin construction on March 24, 2008 on the first phase of a remote monitoring system for pressure regulating valve (PRV) stations. The remote monitoring system utilizes dedicated radio telemetry to send water pressure data from PRV stations located throughout the city to a master control unit located at the Water Division.

The water system has over 50 PRV stations that regulate water pressure within the distribution system. PRV stations are a critical component in the water system. Failure of a PRV station could result in very high water pressure which could cause plumbing or water main breaks. Failure could result in low water pressure and reduced water flow that cannot meet customer demand or adequate water to fire hydrants in the event of a fire.

At this time the Water Division has no way of knowing about low or high system water pressure until we receive a complaint or have a water main break. With the installation of the new monitoring system, if a pressure is outside an acceptable operating range (pressure is too high or too low), an alarm condition will automatically dispatch on-call staff to investigate and correct the problem.

Each PRV station will be equipped with an onsite electronic control unit, a radio telemetry system consisting of a radio transceiver with antennae mast, electric service, and pressure measurement devices. The antennae mast will be 20 feet above ground and the electronic control equipment will be mounted to the 4 inch diameter steel mast. Electric service will be installed in the vicinity of the antennae mast and consists of an 8 inch diameter wooden service drop pole a minimum of 20 feet above ground level or an underground electric service pedestal 5 feet above ground level or a combination of the two depending on specific site conditions. The typical above ground equipment is shown on the attached sketch.

Field installation will begin in March and is scheduled for completion by the end of the year. Residents will be given notice prior to construction. The installation work should take approximately two weeks per site. McDade-Woodcock, Inc. is under contract with the City to install the monitoring system.

Contact the City of Santa Fe for general project information or McDade-Woodcock, Inc. during construction. Contacts are listed as follows:

City of Santa Fe: Robert Jorgensen, Water Division (505) 955-4265

McDade-Woodcock, Inc.: Chuck Roberts (505) 507-1273; Doug Swank (505) 507-1291