

FLOOD MONITORING SYSTEM TARRANT WATER DISTRICT, TX



7/5/2006

FLOOD MONITORING SYSTEM, TARRANT REGIONAL WATER DISTRICT, TX

Tarrant Regional Water District (TRWD) awarded a contract to Sutron Corporation to provide hardware, software, installation assistance, and training for an LOS based Flood Monitoring System including data recorders (RTUs), telemetry equipment, sensors, Sutron standard software (PCBase2) and Wonderware's Intouch.

The purpose of the real-time data acquisition system is to modernize the District's water level monitoring capabilities within the river basins served by TRWD in the vicinity of Fort Worth, TX.

From the hydrological and meteorological sites located over a wide geographic area the flood monitoring system will make observations available to the District as well as the National Weather Service in Fort Worth, TX. The present project stipulates real-time data collection of rainfall, stream flow, reservoir level and discharge from twenty-three (23) remote station by virtue of five (5) repeater sites.

This data will be displayed at two master stations using custom developed Intouch screens with real-time maps detailing current parameter values at each site across the region. The first master, TRWD, acts as a primary, which initiates polling of all remote stations. It is proposed, however, that the second master, NWS, will receive schedules updates from TRWD via spread spectrum communication. In the event that TRWD is unable to perform polling operations, NWS will automatically assume polling responsibility until communications at TRWD can be recovered. This is referred to as a "Listen and Recover" operation.

Sutron Corporation responsibilities include:

- Design of proposed radio telemetry system
- Procurement all remote site equipment with exception of masts and/or towers, all base station equipment with exception of PCs and towers



OWNER:	Tarrant Regional Water District Fr. Worth, Texas
CONTACT:	Steve Sieja
# & EMAIL:	(817)335-2491, ssieja@trwd.com
TOTAL:	\$224,379
DATES:	1999
EQUIPMENT:	Provide hardware, software, installation assistance, and training for an LOS based Flood Monitoring System; provide data for National Weather Service. LOS Radio Telemetry, 23 remote stations, 5 repeater sites, 2 master stations

- System integration with existing sites
- Master station installation, remote site installation assistance and training
- Training for all hardware and maintenance, as well as software furnished (both standard and non-standard products)
- Technical support for TRWD installed sites
- Documentation of system operation and system component data