

HOUSTON GROUNDWATER PRODUCTION - SCADA SYSTEM ADDITIONS PHASE II



OWNER:	City of Houston
GENERAL CONTRACTOR:	Boyer, Inc.
ENGINEERING FIRM:	Montgomery-Watson
BOYER CONTRACT:	\$3,300,000
TYPE OF CONTRACT:	Prime Contractor
PROJECT TYPE:	SCADA at 48 Existing Sites
COMPLETION DATE:	March 2000

Established a new PLC based supervisory control & data acquisition (SCADA) system at 48 existing water plants that export to a central command center created during the Project's Phase I via ISDN Lines/Modems. Work consists of Siemens 545 master PLCs, Siemens S-7 sub PLCs for chlorination, wells, and automatic transfer switch control. Existing Multilin motor protection relays on all water wells and SAMMS motor protection relays on all booster pumps were retrofitted. Other miscellaneous instrumentation included in this Phase were plant discharge pressure transmitters, ground storage tank level transmitters, water well flowmeter/transmitters and power quality relays. There were also thirty-four grid pressure and elevated storage sites around the city that were monitored via phone lines. As in Phase I, all work was accomplished without any water service outage.

