

Situation	<p>AEC upgraded the existing Monitoring and Data Acquisition system for the Boilerhouse of a manufacturing plant.</p> <p>Operations require real-time display of plant performance. Ease of use, intuitive screen navigation, and user-friendliness requirements were specified.</p> <p>Process Engineers require readily available access to real-time trending and historical trending. It was necessary to present real-time and historical information on the same trend for any combination of parameters.</p> <p>Engineering and Maintenance require access to fault and alarm history.</p> <p>Existing plant includes several proprietary networks to acquire data from instruments, dedicated single loop controllers, and PLCs.</p>
Solution	<p>Operator Interface screens provide a detailed graphic presentation of equipment status and operation. Faceplates of remote devices are duplicated on InTouch screens.</p> <p>Data logging, production reporting, and alarm reporting are implemented using WonderWare Industrial SQL Server. Production data and process data are saved to a remote data store. This information is available via preprogrammed reports. Technicians can develop custom reports to aid in problem or economic analysis.</p> <p>Logged historical data is automatically backed up to a re-writeable CD on a daily basis. Operator is prompted to change to a new CD every month. Logged data for any day can be copied to the Industrial SQL "Circular" directory to make it accessible to SQL Server client tools.</p> <p>Screen text and screen navigation commands are stored in a local spreadsheet. This provides a flexibility to Operators and Technicians that is not usually available in packaged software of this type (unless an expensive development license is installed on the target machine).</p>
Technologies	<p>WonderWare InTouch and Industrial SQL Server</p> <p>Allen Bradley PLC5</p> <p>Moore Industries Input / Output Modules</p>

