B A Y • T E C

PROJECT PROFILE

Owner:
Stanford University

Project Name:
CISX Toxic Gas Monitoring System

Project Location:
Palo Alto, CA

Technical Summary:
The system is PLC based with a Wonderware operator interface for alarm and event logging. Gas sensors throughout the clean room research lab areas tie back to the central monitoring system (CMS). A gas vault of approximately 40 toxic and highly volatile gases located in a special containment and monitoring cabinets also ties back to the CMS. The CMS monitors and detects gas leakage to prevent emergency and hazardous conditions. When and if an alarm state should occur, the system shuts down gas flow, sounds an alarm horn, and logs the alarm condition on the CMS.

Scope Responsibility:
Contracted by DPR construction for Stanford, Bay-Tec was responsible for the design and build of a central monitoring system for the toxic gases involved in this semi-conductor chip research and development environment. We were responsible for the system design and architecture; PLC and operator interface programming, panel fabrication, installation and start-up, as well as compliance with local Toxic Gas Ordinances.