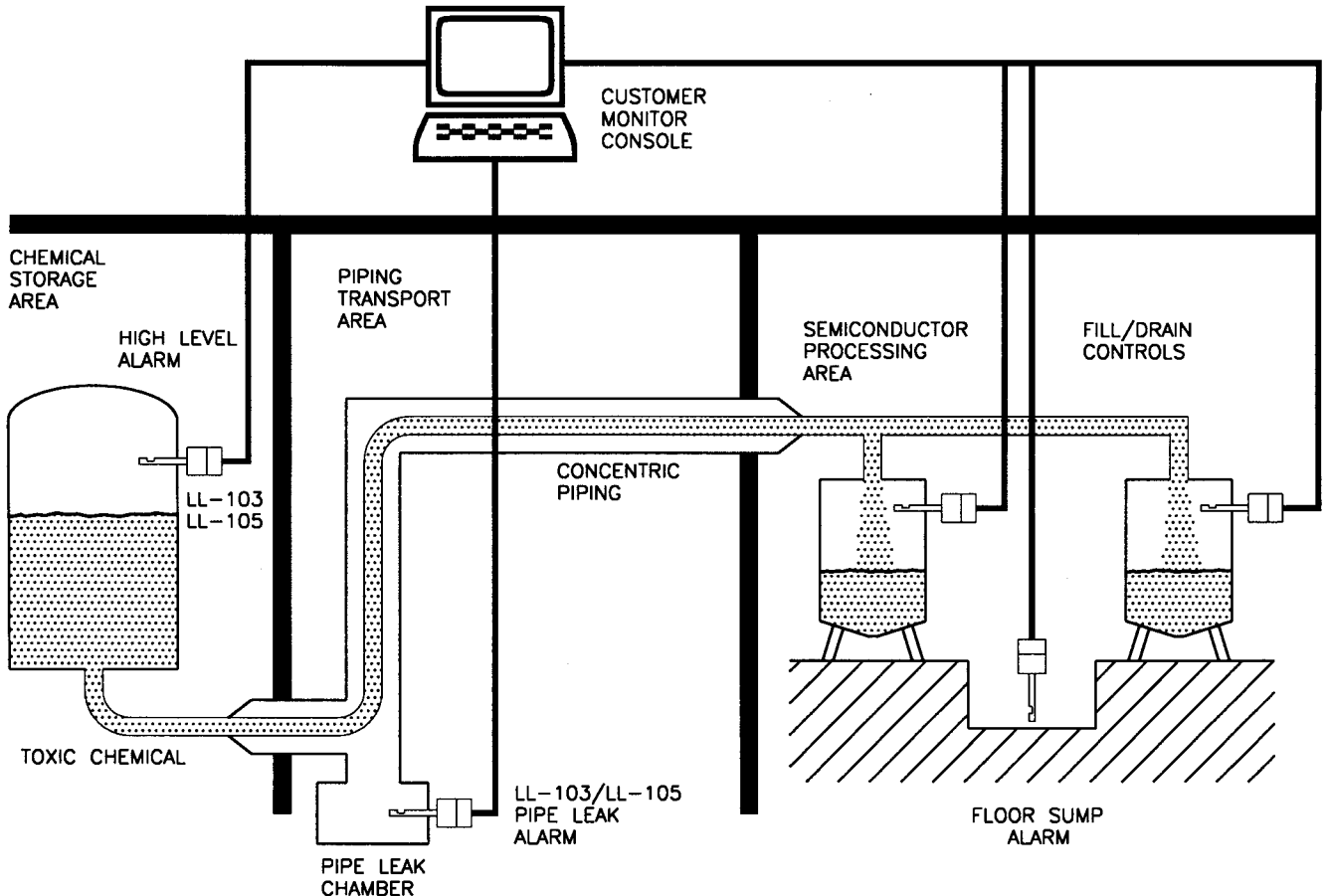




**USING ADVANCED SELF-TESTING LEVEL  
SENSORS FOR LEAK DETECTION**



**PROBLEM:** A SEMICONDUCTOR MANUFACTURER USES MANY TOXIC CHEMICALS FOR CLEANING, ETCHING AND PLATING OPERATIONS. TRANSFERRING THE CHEMICALS BETWEEN OPERATIONS REQUIRES RELIABLE MONITORING FOR DANGEROUS SPILLS.

**SOLUTION:** THIS CUSTOMER INSTALLED CONCENTRIC PIPING FOR TRANSFERRING THE MOST TOXIC CHEMICALS - CHROMIC ACID, HYDROFLUORIC ACID, SULFURIC ACID AND VARIOUS SOLVENTS. IF A PIPE LEAK DEVELOPS, THE LIQUID SPILLS INTO THE OUTER JACKET FOR COLLECTION AND IS INSTANTLY DETECTED BY LL-103/LL-105 SENSORS. FOR LESS TOXIC SERVICE, THE CUSTOMER INSTALLED FLOOR SUMPS AND TANK CATCH BASINS INTO WHICH THEY INSERTED SENSORS. THE TOTAL INSTALLATION CONSISTED OF SOME 100 SENSING POINTS TIED INTO THE CUSTOMER'S COMPUTER MONITOR. RELIABILITY AND REPEATABILITY OF MEASURING LEVEL WERE THE CUSTOMER'S INITIAL OBJECTIVES IN SELECTING LL-103/LL-105 AND NOW THE SELF-TESTING FEATURE IS RELIED ON TO ASCERTAIN THAT EACH SENSOR POINT, WHICH MAY NEVER SEE A LIQUID LEAK, IS CONSTANTLY WORKING AND READY.

THIS CUSTOMER USES LL103/LL-105 SELF-CHECKING AND RELIABILITY TO ASSURE SAFE OPERATION. MANY SIMILAR CHEMICAL HANDLERS COULD USE THESE APPROACHES TO DETECT LEAKS AND PREVENT OVERFILLING TANKS.

FOR FURTHER INFORMATION, CONTACT YOUR NEAREST COSENSE REPRESENTATIVE OR CALL (631) 231-0735 OR E-MAIL SALES@COSENSE.COM.