

N59. Pacific Gas & Electric UPGRADES RADIATION MONITORING

Pacific Gas & Electric has awarded Victoreen a contract to upgrade the radiation monitoring systems at Diablo Canyon (U.S.A.). The new digital system will be based on similar designs produced by Victoreen for Indian Point, Kori 3 and 4, and Yeongwang 1 and 2. Victoreen's Radiation Monitoring & Data Acquisition System will include gaseous, liquid, and area monitoring subsystems, with independent local control and connections via data links to a central radiation processor. It will include:

- A pressurized system to improve sensitivity of the gaseous radiation monitoring subsystem, and an auto-purging switch between normal- and accident-range skids.
- In-house calibration facilities, with no special tools required for either service or calibration.
- A microprocessor base.
- Flexibility of input and output, including 16 analog inputs at the local radiation processor (LRP).
- A combination of interconnections.
- Fibre optic cable links.
- Loop type communications.
- The capability of being run independently.
- Modularity of design and interchangeability of parts between the LRP and remote display units to enhance service and reduce the cost of spare parts.
- Skid design featuring a minimum number of fittings (thus reducing potential particulate loss from the sample stream), easy accessibility, and commonly available parts for maintenance.
- An easily maintained open frame LRP design with 110V capability.
- Reduced hot room time due to an extended range filter.
- A lighter shield design.

For more, see Kirchoff, M., "PG&E upgrades radiation monitoring, " Nuclear Engineering International, pp. 52-53, November 1990; or write Mike Kirchoff, Victoreen, 6000 Cochran Road, Solon, OH 44139-3395, U.S.A.