

**ENGINEER: MECHANICAL
PROCESS
UTILITIES**

KENNETH R. RIDINGS, P.E.
Engineering Design and Testing Corp.
1170 Burnett Avenue, Suite P
Concord, California 94520
925.674.8010
kenridings@edtengineers.com

EDUCATION

August, 1979 Bachelor of Science in Mechanical Engineering
University of Utah

PROFESSIONAL EXPERIENCE:

2005
to present **Engineering Design and Testing Corp., Oakland, California**
Consulting Engineer - Investigation of incidents involving natural gas piping systems and facilities, cranes/heavy equipment, water damage, piping systems, refrigeration systems, fire suppression systems, commercial kitchen fire suppression systems, construction defects, infrastructure utilities, machinery and equipment. Services provided include failure analysis and causation identification, standards and codes interpretation, estimate of repair and/or replacement costs, scope of damage evaluations, fire origin and cause, and construction monitoring and timeline scheduling.

1998 - 2004 **Pacific Gas & Electric Company, San Francisco, California**
Manager – Directed and implemented construction, engineering, operations and maintenance standards, procedures, tools, and technologies for gas distribution piping systems, asset records and associated databases. Prepared expert testimony and testified in California Courts on behalf of PG&E's gas distribution capital and expense investments for the 1999 regulatory funding proceedings.

1993 – 1998 **Pacific Gas & Electric Company, San Francisco, California**
Senior Distribution Engineer – Developed engineering, construction, and operations and maintenance standards for pipe rehabilitation, valves, fittings, pressure control facilities and substructure enclosures for gas distribution piping systems and stations. Analyzed system operations, material, equipment, and facility failures. Investigated cause and emergency response of distribution and transmission incidents.

1989 – 1993;
1984 – 1988 **Pacific Gas & Electric Company, Fresno, California**
Division Engineer – Supervised multi-disciplined work group responsible for the engineering, design, operations and maintenance of a transmission and distribution system. Managed pipeline projects, prepared engineering designs and solutions, and diagnosed system operations.

- 1988 – 1989 **Pacific Gas & Electric Company, Fresno, California**
Transmission and Regulation Supervisor – Supervise technical workgroup that is responsible for operations and maintenance on 2700 miles of pipeline and 165 pressure control stations. Scheduled work, prepared and directed system sequence of operations changes, and diagnosed system operations.
- 1984 **Pacific Gas & Electric Company, Antioch, California**
Area Engineer - Responsible for cathodic protection, facility records management, design and cost estimate preparation, engineering of gas transmission pipelines and associated facilities.
- 1979 – 1984 **Pacific Gas & Electric Company, Walnut Creek, California**
Engineer - Designed and engineered gas transmission pipe line, metering, and compressor station facilities. Specified water treatment and heat exchanger operations and maintenance at compressor stations. Performed pipe loading and stress analysis, and hydraulic capacity and system planning analysis.
- 1978-1979 **Northwest Pipe Line Company, Salt Lake City, Utah**
Engineering Intern – Facility engineering, perform cathodic protection analysis and prepare recommendations.

PROFESSIONAL ORGANIZATIONS:

American Society of Mechanical Engineers (ASME)
ASM International (ASM)
The American Society of Safety Engineers (ASSE)
National Fire Protection Association (NFPA)
National Association of Fire Investigators (NAFI)
California Conference of Arson Investigators (CCAI)

PROFESSIONAL REGISTRATIONS:

Registered Professional Engineer – Arizona (#44546)
Registered Professional Engineer – California (#M27526)
Registered Professional Engineer – Idaho (#14379)
Registered Professional Engineer – Montana (#19897)
Registered Professional Engineer – Nevada (#021117)
Registered Professional Engineer – Oregon (#78334PE)
Registered Professional Engineer – Utah (#180944-2202)
Registered Professional Engineer – Washington (#42731)
National Council of Examiners for Engineering and Surveying (#28431)

CONTINUING EDUCATION:

- 2010 Fire Pump Seminar
 National Fire Protection Association
 Reno, Nevada
- 2007 Investigation of Gas & Electric Appliance Fires
 Western Michigan University
 Kalamazoo, Michigan
- 2006 Fire and Explosion Investigation
 National Association of Fire Investigators
 Sarasota, Florida
- 2006 Mechanical and Electrical Estimating
 RS Means
 Las Vegas, Nevada