

GLENN D. PETERSON
MECHANICAL ENGINEER
FIRE PROTECTION ENGINEER

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EDUCATION, REGISTRATION, AND PROFESSIONAL MEMBERSHIPS

- B.S. in Fire Protection and Safety Engineering, Illinois Institute of Technology
- Registered Professional Engineer: California, Colorado, Alaska, and Washington
- Society of Fire Protection Engineers
- National Fire Protection Association
- Forensic Expert Witness Association
- Western Construction Consultants Association

INVESTIGATION AND LITIGATION SUPPORT

Fire Sprinkler Systems

- Determine the fire spread which would have occurred if the sprinkler systems had been in service.
- Review of an existing sprinkler system and review of the replacement sprinkler system to determine justification for the claimed cost.
- Investigation of a frozen sprinkler system in a food storage warehouse.
- Review of failures of hangers and sprinklers and a complete evaluation of a high rise sprinkler system to determine if the system was properly installed in accordance with local codes.
- Analysis of plans and specifications to determine the viability of a contractor's claim.
- Review of several cases of water damage including incidents caused by a missing drain plug, a cracked plastic fitting, a popped sprinkler, an improperly rated fire pump relief valve, an improperly installed grooved coupling, water hammer, faulty components, and an earthquake.
- Analysis of a residential fire to determine whether sprinklers would have prevented a fatality.
- Review of sprinkler systems in several condominium projects.
- Investigate corrosion and premature failure of sprinkler system piping.
- Review of an incident where it was alleged that improper installation of a sprinkler system contributed to an accident during remodeling.
- Review of sprinkler system maintenance.
- Review of several dry pipe system failures including residential and commercial occupancies.

Fire Alarm Systems

- Analysis to determine if a fire alarm system provided equivalent protection to systems required by code.
- Investigation of several fire alarm systems to determine if improper operation of the systems increased the fire loss; i.e., were systems properly designed, installed in accordance with applicable codes, and functioning properly.
- Review of fire alarm systems in several condominium projects.
- Review of a system where induced voltage caused numerous trouble signals on the panel.

Special Hazard Systems and Fire Extinguishers

- Investigation to determine why a halon cylinder rocketed.
- Study of several restaurant extinguishing systems to determine the cause of failure.