



Timothy M. Sinasac
Fire Protection Designer

Education

Computer Integrated Drafting and Design, Tennessee Technology Center at Knoxville, TN
Mechanical, Structural, Architectural Drafting Diploma, 2004

Professional Affiliations

Certified Drafter, American Design Drafting Association
NICET Level II Certified, Water-Based Fire Protection Systems Layout (formerly Automatic Sprinkler)
NICET Level I Certified, Fire Alarm Systems
NICET Level I Certified, Special Hazards Suppression Systems

Professional Experience

February 2005 through Present - Performance Design Technologies, Inc.
Fire Protection Designer

Mr. Sinasac is a Fire Protection Designer who supports a variety of design and analysis projects with graphic presentations, drawings, and field support. He has assisted in the design and installation of fire protection system upgrades for various industrial projects, schools, and commercial facilities. He has assisted in the assessment of both new and existing fixed fire protection systems.

Mr. Sinasac is experienced in the development of fire protection design drawings for fire sprinkler systems, underground fire water mains, fire alarm systems, and special extinguishing systems, including water spray systems, foam systems, etc. This includes drawing development and revisions of wet pipe, dry pipe, pre-action, deluge, and electric and diesel-driven fire pump sprinkler systems. He is also experienced in the following:

- modification of existing fire protection design drawings, based on comments from fire protection design engineers, authorities having jurisdiction, contractor-requested modifications, and owner-desired modifications.
- creating initial fire sprinkler design drawings in accordance with NFPA 13 for review and approval by fire protection design engineers.
- field surveying, installation and acceptance testing oversight, water supply analysis, and hydraulic calculations.
- use of AutoCAD, MicroStation, and Revit to perform drawing design, modifications, and final submittal development.
- creating as-built and record drawings based on both on-site walkdowns and notes made by others.

Mr. Sinasac's specific fire alarm experience includes development and review of conceptual system layouts and wiring diagrams, layout and placement of initiating devices, notification devices and wiring, coordination of devices information (addition/removal, location details, circuit information, etc.), drawing development and revisions, field surveying, and installation and testing oversight.

Mr. Sinasac's experience in special hazards suppression systems includes performing the system layout in accordance with the engineer's design; layout and placement of initiating and notification devices, release station, cylinder, etc.; drawing detailed isometric and plan layouts of CO² systems, foam systems, dry chemical systems, etc.; drawing development and revisions; field surveying; and installation and testing oversight.

Mr. Sinasac has experience working on several nuclear facilities, including multiple nuclear power plants. This experience includes general fire protection support and walk-downs of Crystal River 3 Nuclear Plant in Crystal River, FL; Ontario Power Generation, Darlington and Pickering Nuclear Generating Station in Ontario, Canada.

Areas of Specialization

Fire Suppression Design and Hydraulic Calculation (HASS)

Fire Alarm System Design

Multi-Platform Drafting and Design (MicroStation, AutoCAD and Revit)

Network Management of Multi-user Drafting Projects

Archive Maintenance of Multiple-Phased Design Projects

Inspection, Testing, and Maintenance Program for Fire Protection Systems and Equipment