



Burner Management Systems

Assure safe startup and operation of fired equipment using software based systems following industry standards and best practices.

Burner management systems for:

Boilers	HRSGs
Process / fluid heaters	Thermal oxidizers
Incinerators	Reformers
Vaporizers	Dryers
Ovens	Sulfur recovery units
Kilns	Calciners
Furnaces	Reboilers
Bath Heater	SRUs

Applications include single and multiple burners, as well as single and multiple fuels.

Systems designed per industry standards

- NFPA 85: Boiler and Combustion Systems Hazard Code
- NFPA 86: Standard for Ovens and Furnaces
- NFPA 87: Recommended Practice for Fluid Heaters
- API 556: Instrumentation, Control, and Protective Systems for Gas Fired Heaters
- API 558: Recommended Practice for Industrial Fired Boilers for General Refinery and Petrochemical Service
- ISA 84 (IEC 61511): Functional Safety: Safety Instrumented Systems for the Process Industry Sector
- CSA B149.3-10: Code for the field approval of fuel-related components on appliances and equipment
- Systems capable of meeting up to SIL 3 requirements

FM-listed systems

We can provide systems that are currently listed with Factory Mutual for combustion safeguard service, or get a new design listed if necessary.



Complete panel design and testing

- FM-approved, UL 508A & 698-certified shop
- Panel design
- Internal wiring
- Software programming
- Human machine interface
- Third party interfaces
- Field wiring (optional)
- Factory acceptance testing
- Systems designed to facilitate functional testing

Experience with multiple safety platforms

- ABB
- Emerson
- HIMA
- Rockwell
- Schneider / Triconex
- Siemens
- Yokogawa

Additional services

- Code compliance audits
- Design equivalency studies (NFPA vs. ISA 84)
- Complete I&C field wiring design services
- Supply of gas / oil trains
- Combustion control / unit optimization
- Facility siting studies to evaluate best location for your new fired device
- Safety instrumented systems design
- PHA / LOPAs on fired devices

We're here to help

Ask us how we can work with you to deliver a burner management system from design, approvals, implementation, installation, operations, and more.