



Burner Management Safety

BMS helps keep your operators safe and your plant running

According to FM Global, the property insurer for the ERM Safety Group, fuel burner malfunctions account for numerous losses every year. These incidents cause plants to lose production if not maintained properly.

ICM's Burner Management Safety (BMS) Program helps prevent these types of incidents through annual safety inspections of your plant's fuel burner, much like an annual boiler inspection.

Meeting your NFPA obligations

Per National Fire Prevention Association (NFPA) recommendations, ethanol plant owners are responsible for scheduling and enforcing the frequency and extent of inspections, testing, and maintenance.

ICM's BMS program will help you meet your NFPA obligations. It covers dryer burners and thermal oxidizer burners, ensuring safe operation with the latest NFPA codes, standards, and recommended practices. Our program provides documentation and procedures per NFPA recommended safety checks, based on NFPA 86: Standards for Ovens and Furnaces; 2007 Edition.

Examples of the NFPA 86 recommendations covered by this program:

- 7.5.4 - All safety interlocks shall be tested for function at least annually
- 7.5.6 - All safety device testing shall be documented at least annually
- 7.5.13 - Excess temperature controller shall be verified accurate
- 7.5.14 - Any replaced safety device shall be tested and documented
- 7.6 - Safety and maintenance records shall be retained for 1 year or until next inspection

ICM will inspect and test burner management safety according to manufacturers' recommendations. The test results will be recorded on a Master Burner Management Report that lists safety set points, valve leaks, and all hardware interlocks.

We will provide your plant with documentation upon completion of testing, and we will also maintain backup files of the documentation at ICM.

Scheduled around you

All safety checks associated with this service require the burners to be off. For the most economical safety check possible, we recommend scheduling this service during a planned shutdown for regularly scheduled maintenance or boiler inspection.

Considerations

ICM has designed and commissioned gas trains, burners, and combustion controls for 102 ethanol plants, including yours. Our experienced field crews will work quickly and accurately to get the job done. Our pricing includes the following assumptions:

- Inspection will require 2 ICM employees
- Burner safety checks require ~4 hours per burner
- Planned dryer or thermal oxidizer work must be considered in shutdown schedule
- ICM has developed an alliance with a reputable service company to provide additional manpower when the schedule requires
- Pricing is dependent upon extent of plant's inspection, testing, and maintenance requirements



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