



Wilson-Mohr

Burner Management Systems

Projects...Definition to Operation

WILSON-MOHR BMS QUALIFICATIONS

- Over 40 Years of BMS Experience
- Over 1000 Systems Supplied
- Complete BMS Scope Project Execution Capabilities
- Expertise with All BMS Related Instruments & Controls

CODES & STANDARDS COMPLIANCE

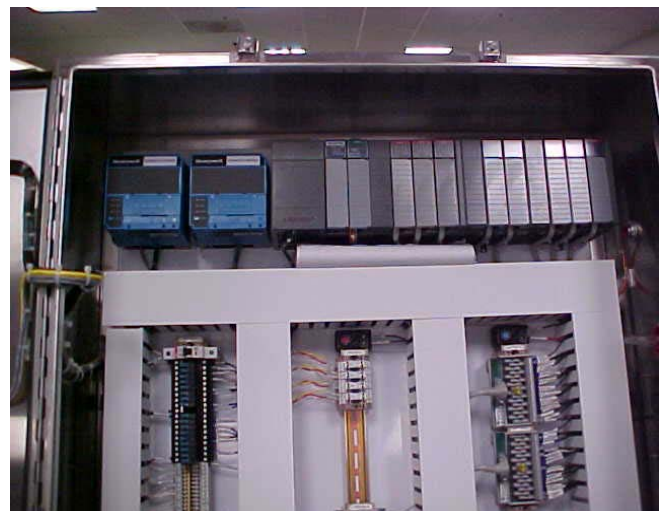
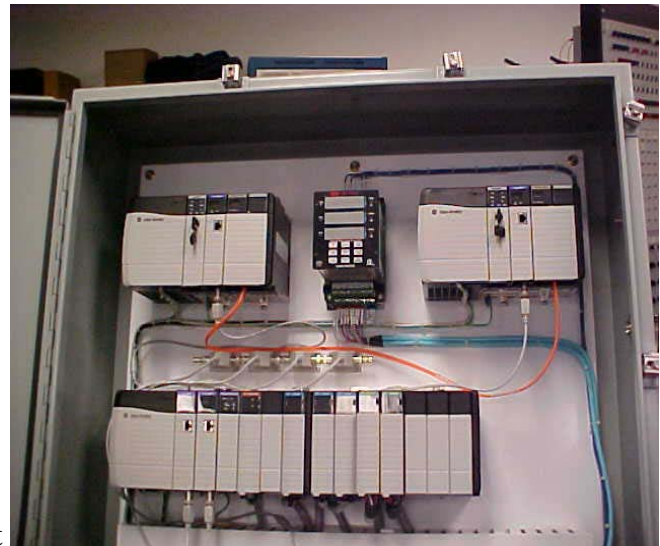
- NFPA Codes & Standards
- FM & Other Insurance Requirements
- IEC Standards
- ISA Standards
- Customer Specifications & Standards
- Wilson-Mohr's Internal QA Program

DESIGN, ASSEMBLY, AND TESTING

- BMS Logic, Electrical & Mechanical Design
- BMS & HMI Programming / Network Development
- Fuel Skid Process & Mechanical Design
- Control cabinets & Fuel Skids Professionally Fabricated
- Full Burn-In, De-Bug & Factory Acceptance Test

PROJECT COMPLETION & ONGOING SUPPORT

- Complete "As-Built Documentation Package
- On-Site Commissioning & Training Services
- Periodic System Inspection & Maintenance
- Management Of Change Support



WILSON-MOHR BURNER MANAGEMENT SYSTEMS APPLICATION HISTORY

- Industries Served:**

- | | | |
|---------------------------|-------------------|---------------------------|
| Oil Refining | Gas Processing | Oil & Gas Production |
| Chemical Processing | Pulp & Paper | Cement & Basic Industries |
| Environmental Remediation | Metals Processing | Power Generation |
| Building Controls | | |

- Burner Management Systems For:**

- | | | |
|------------------------|-----------------------|-------------------------|
| Process Steam Boilers | Power Boilers | Recovery Boilers |
| Lime Kilns | Cement Kilns | Heat Medium Heaters |
| Regen Gas Heaters | Crude Heaters | Other Refinery Heaters |
| Thermal Oxidizers | Reboilers | Claus Reaction Furnaces |
| Heat Treating Furnaces | Institutional Boilers | |

- Fuel Types:**

- | | | |
|-------------------|----------------|-----------------------|
| Natural Gas | No. 2 Fuel Oil | No. 6 Fuel Oil |
| Refinery Fuel Gas | Acid Gas | Process Waste Streams |
| Coke Oven Gas | Low BTU Fuels | Variable BTU Fuels |

- Burner Management System Logic Solvers:**

- | | |
|-----|-------------------|
| PLC | Hardwired Systems |
| TMR | Programmer |

CODES & STANDARDS COMPLIANCE

- NFPA (National Fire Protection Association)**

- NFPA-85 – Boiler and Combustion Systems Hazards Code
- NFPA-86 – Standard for Ovens and Furnaces

- FM (Factory Mutual)**

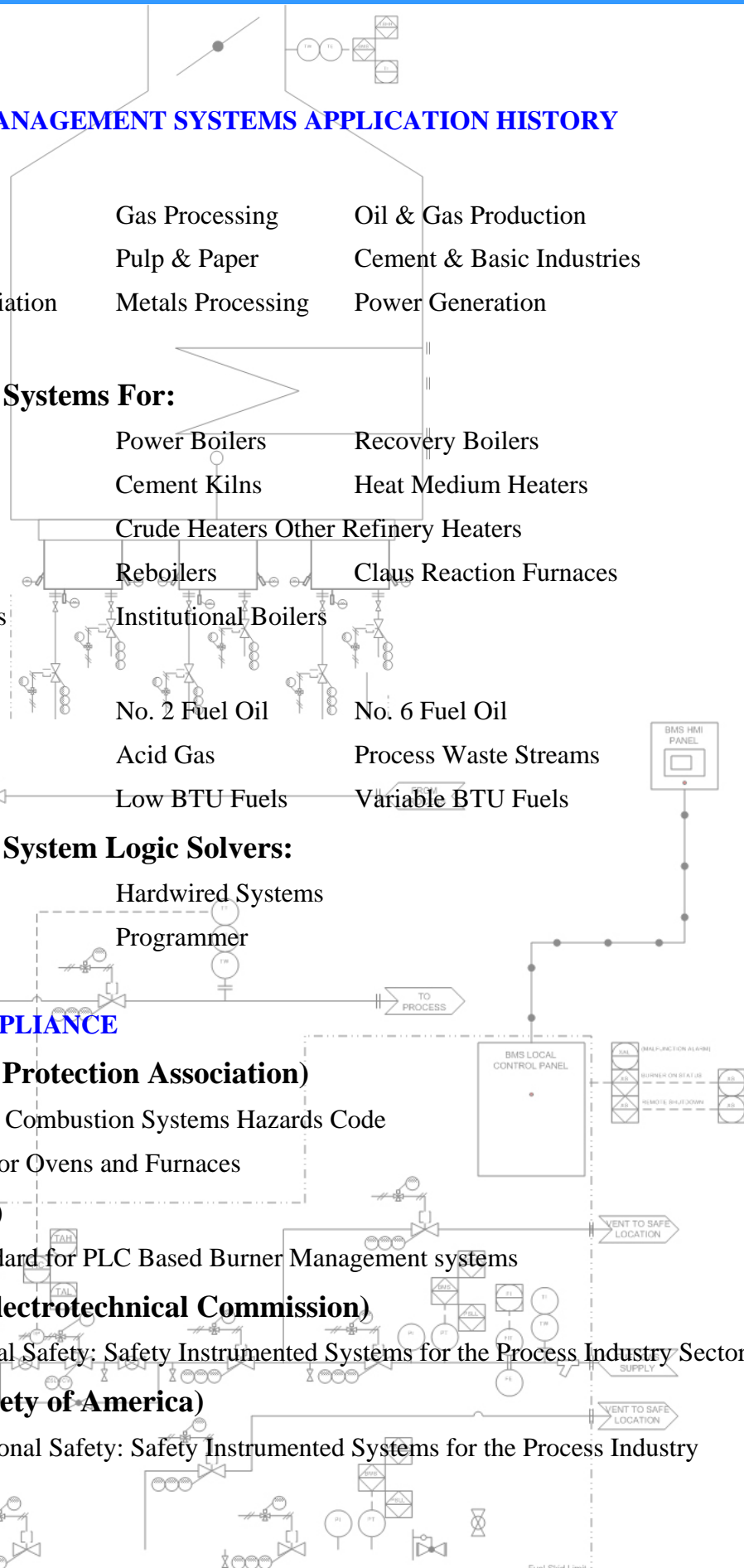
- 7605 – Approval Standard for PLC Based Burner Management systems

- IEC (International Electrotechnical Commission)**

- IEC-61511 – Functional Safety: Safety Instrumented Systems for the Process Industry Sector

- ISA (Instrument Society of America)**

- ISA-84.00.01 – Functional Safety: Safety Instrumented Systems for the Process Industry Sector



BURNER MANAGEMENT ACCESSORIES OFFERED BY W-M

- **Flame Monitoring Systems**

Honeywell – Burner programmers, flame switches, and self-checking UV flame detectors for natural gas & fuel oil flame detection

Iris Systems – Flame signal processors and self-checking UV, IR & combination high frequency flicker flame viewing heads for detection of flames from all fossil fuels

Fireye – Flame signal processors and self-checking UV & IR flame scanners for detection of flames from all fossil fuels



- **Ignition Equipment**

Honeywell – Ignition transformers and electrodes for electric ignition of pilots and direct spark ignited burners

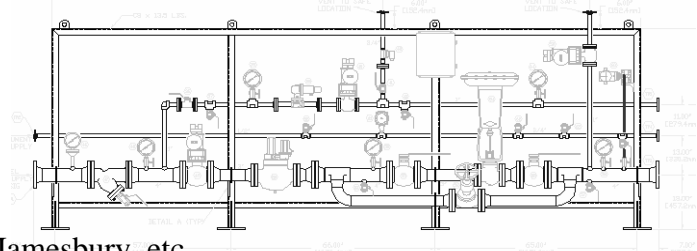
Iris Systems – High energy spark igniters for ignition of boiler and furnace burners of all types



- **Fuel Skid Packages**

Prepackaged Fuel Skid Assemblies

With all required shut-off & vent valves, control valves, pressure regulators, interlock switches & transmitters, indicators, etc. for a complete, pre-fabricated, pre-wired and pre-tested fuel handling system.



- **Shut-Off & Vent Valves** – Maxon, Jamesbury, etc.
- **Control Valves & Regulators** – Fisher, Valtek, Masonelian, etc.
- **Interlock Switches** – United Electric, SOR, Neodyne, etc.
- **Interlock Transmitters** – Honeywell, etc.
- **Indicators** – Ashcroft, Wika, etc.



- **Combustion Equipment**

North American – Forced draft burners & blowers, natural draft burners and accessories

Maxon – Forced draft burners & blowers, natural draft burners and accessories