

Large Building Complex Program Increases Safety, Fuel Efficiency & Operations Efficiency

Application Note

“We are proud that we can prove all state and legal rules and regulations are being followed.”

Challenge

An automotive manufacturer began a focused safety program for gas-fired equipment used in space heating and hot water production at 2,000,000 sq. ft of office and research facilities housing 10,000 employees. Since most sites were not conducting testing of safety shut-off valves, relief valves, interlocks, or establishing consistent checklists or procedures, the risk of an incident was high.

Solution

Honeywell Combustion Safety engineers put together a multi-pronged, multi-media approach to training and inspections. This was accomplished by developing 12 proprietary checklists detailing how to approach the gas-fired equipment. Honeywell used these checklists with automotive personnel to conduct the gas fired plant equipment testing and inspections. Training videos were disseminated to the group demonstrating how to apply the checklists, and practices were reinforced with in-person training.

Benefit

Honeywell evaluated more than 524 pieces of equipment with inputs 400,000 btu/hr and lower, 84 firing over 400,000 btu/hr, 50 boilers and 34 rooftop make up air houses. Notable findings included:

- 11 of 25 air house MUA units had failed heat exchangers – a total of 44%
- Shut-off valves were not operable or leaking when in the closed position
- Abandoned units and gas lines lacked blanks or caps and the shut off valves were found open
- Low water cut outs on boilers were non-functional

This process provided the group with the ability to identify problems and schedule maintenance in advance to create more efficient use of manpower.



World Leader in Combustion Safety Services

With 30 years of industry experience, Honeywell Combustion Safety, formerly known as CEC Combustion Safety, is the world leader in managing and mitigating combustion equipment and fuel gas piping risk exposure. The company provides expert testing, inspection, training and engineering services for all types of fuel-fired systems across numerous industries throughout the world.

National Code Committee Member

- **NFPA 85** - Boilers greater than 12.5 MM BTU/HR
- **NFPA 86** - Furnaces & Ovens
- **NFPA 87** - Fluid Heaters
- **NFPA 56** - Standard for fire & explosion prevention during cleaning & purging of flammable gas piping systems

Facts and Figures

- Global service, engineering & upgrade capabilities
- Domain expertise with all types of fuel-fired systems across numerous industries
- 30,000+ fuel-fired systems inspected and safety tested
- SafeView - A unique online reporting system featuring a dashboard that trends and tracks issues, and empowers proactive decisions across one to 100+ facilities and thousands of fuel-fired systems
- Corporate-wide creation, implementation and management of safety programs
- Thousands trained annually with client-specific hazards, live-fire demos and online training
- Proven safety services to increase safety, reduce costs and increase reliability, efficiencies, and competitiveness while ensuring facility capacity

Our Mission

To save lives and prevent explosions while increasing the efficiency and reliability of combustion equipment.

For more information

Learn more about Honeywell Combustion Safety, contact info@combustionsafety.com, visit www.combustionsafety.com or contact your Honeywell Sales Engineer.

Honeywell Process Solutions

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