

Personal Security

If you lost your wallet tomorrow, what would you do? Here's little personal homeland security tip: take your wallet to the copy machine and photocopy the front and back of ever credit card, debit card, etc., that you carry. Now you'll know what was in there along with all the account numbers and phone numbers you'll need to report the theft.

If your wallet is stolen, cancel your cards and file a police report immediately. Then, to thwart any attempts at credit or identity theft, call the three national credit reporting agencies and place a fraud alert on your name and Social Security Number. This will force any company that checks your credit to contact you by phone before authorizing any new credit.

Security Tip: Don't carry your Social Security card or even your number in your wallet. When it comes to identity theft, that Social Security Number is gold.

Equifax
1-800-525-6285

Experian (TRW)
1-888-397-3742

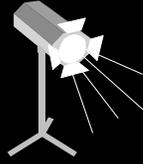
Trans Union
1-800-680-7289

Social Security Administration (fraud line)
1-800-269-0271



Did you know ...?

As little as one percent loss in boiler efficiency can cost you tens of thousands of dollars annually in unnecessary additional fuel costs, depending on the size of your boiler. Only regular testing, calibration and tuning can keep your system running at peak efficiency. Lipten's highly trained technicians are ready to perform all the test and calibrations you'll need. Call us today for an appointment..



Spotlight On ...

Jim Marshall



While one of Lipten's Regional Operation Managers, Jim is also our top instrumentation expert. He has over twenty years experience in the design and application of process instrumentation and control valves. In his time at Lipten, Jim has many professional

accomplishments including:

- Project manager for a General Motors Plant conversion project, converting three coal fired boilers to natural gas that included the replacement of the Deaerator and Feedwater System, Condensate Pump System, Heat Recovery System and Water Softener System.
- Managed last year's project at Oakwood Hospital in Dearborn, Michigan, replacing an aging Absorption Chiller and Cooling Tower with a new Centrifugal Chiller, Cooling Tower, Chilled Water Circulation Pumps and instrumentation.
- Lipten's Project Manager for the Boiler Conversion and Upgrade Project at Holy Cross Services, St. Mary's College featured in this issue.

Education & Training

Bachelor of Electronic Engineering
University of Dayton

FlowServe/Valtek

Control Valves 101 & 301 Training

Dale Carnegie

Sales Training

Career History

Great Lakes Process Control, Inc.
Instrumentation/Valve Sales Engineer

Cegelec Automation
Control Systems/PLC Engineer

Jim resides with his wife and children in Howell, Michigan. In his spare time, Jim enjoys life on Thompson Lake, driving his Ski Sanger boat, skiing, and spending time with his family.



PLC based Boiler Control Systems Provide Many Benefits

by Frank Hrlac, Purchasing Manager

In a never-ending pursuit to find more cost-effective solutions for boiler controls, Lipten Company set a focus on using Programmable Logic Controllers (PLC). Recognizing how PLC's revolutionized control systems in the machine tool industry, Lipten's engineers realized PLC's could have the same impact on the boiler control arena. From that creative spark a decade ago evolved Lipten's current state-of-the-art products.

These PLC based system use a mix of analog and discrete I/O to interface with the control and measurement elements. Programming is typically in standard ladder logic with software function blocks for PID loops.

NFPA requirements are met with separate Combustion Control (CCS) and Burner Management (BMS) controllers. This dual controller system is housed in a single NEMA 12 enclosure. All critical safety shutdown conditions are monitored separately from the PLC by independent electromechanical relay based circuits. These hardwired circuits assure that an unsafe condition is acted upon independently of any software commands.



A independent ultraviolet and/or infrared flame switch is employed to add further redundancy to the safety circuits. A color touchscreen display (HMI) is mounted on the door of the enclosure giving access to all boiler operating controls and allows monitoring of all critical parameters.

A PLC based system provides numerous advantages over the more commonly applied single loop controllers (SLC) or distributed control systems (DCS). The PLC-based system is less expensive than a DCS and provides flexibility that SLC's can't match. What's more, Lipten's industrial clients, including many major automobile manufacturers, already have thousands of PLC's throughout their facilities. This means maintenance personnel are more familiar with them than SLC's or a DCS. Further, PLC components are readily available from a variety of local distributors. One of the great features of the PLC based system is its modular configuration. Each boiler has its own control panel

and each of these panels are essentially the same regardless of the size of the boiler or the fuel burned. This common design approach reduces cost and simplifies the interface with operating personnel.

Lipten's boiler control scheme uses PLC's on the plant floor to provide complete plant automation.



To provide a centralized point for monitoring and control, a Power House Monitoring and

Control Console is available. This console is a PC based monitoring system networked to the Boiler Controls, Plant Master Controls and other auxiliary control systems. This console has all of the features of each boiler and plant master HMI and enables operating personnel to monitor and control all critical control functions in the powerhouse from one location. The graphic display facilitates alarm monitoring, report generation and process tracking and trending. Alarm and data logging printers rounds out the scope of supply.

Lipten now has scores of PLC based systems operating successfully throughout the country.



Lipten now has scores of PLC based systems operating successfully throughout the country. These installation have PLC controls applied to both new equipment and retrofits of existing installations. Indeed, many of Lipten's clients have now standardized their control systems based on this design.



LIPTEN COMPANY

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Lipten would also like to thank the following organizations for their assistance in making this a successful project:

- Douglas D. Corwin Associates
- Detroit Boiler Company
- Bancroft Electric
- Engineered Solutions
- Fenton Systems
- Interstate Environmental Services



The next phase of this project will include installation of a replacement burner and controls on a third gas fired boiler and replacement of the deareator system



LIPTEN

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