



LIPTENTM
ENERGY SOLUTIONS

the **LIPTEN**TM *advantage*

1st Quarter, 2017 Newsletter

GREAT QUOTES:

"Life is 10% what happens to you and 90% how you react to it.

- Charles R. Swindoll

"Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence."

- Helen Keller

**Steamin' Hot
NEWS**

- Lipten completed the supply, installation and startup for replacement of burners, fuel trains, fans instruments and controls on four watertube boilers.

- Engineering of a boiler replacement project for GM will be complete

Dealing With Boiler Steam Load Swings?

Keep in mind that boilers are most efficient when operating near their maximum design rating. Consider splitting the load between two or more boilers. For example, if your maximum steam generation requirement is 150,000 lbs/hr but can consistently be half or less, consider using two 75,000 lbs/hr boilers. Then the second boiler can be brought online for the high demand periods when needed, leaving the main boiler to operate more efficiently closer to design capacity.

Here are some more tips for dealing with steam load swings:

- Design the boiler steam chest larger than usual. This will allow the boiler to act as a steam accumulator without needing a separate steam accumulator vessel.
- Place a heater in the lower section of a standby boiler to allow for faster ramp up.
- Use a secondary burner for low turndown and to maintain temperature (similar to a stand-by heater). Lipten typically employs this strategy in steel mill vacuum arc degasser applications which need a large blast of steam for only a few seconds.

soon.

- Lipten will soon begin startup of the Bloomsburg University boiler and balance of steam plant equipment as part of a controls contract of over \$1 Million.

- If the plant knows when they will have increased steam load the boilers can be staged so that they are up to temperature when needed.



DILBERT _ 2013_ Scott Adams. Used by permission of UNIVERSAL UCLICK. All rights reserved.

Did you know ...



Coal fired boilers are being converted to natural gas. But, did you know that in 1978, the EPA published a study (EPA-450/3-78-123) examining the feasibility of converting natural gas fired boilers to coal! For those of us old enough to remember, the 70's were a tumultuous time for world fuel supplies. There was the 1973 OPEC oil embargo prompting passage of the Energy Policy and Conservation Act of 1975. Then, the natural gas shortages in 1977 prompting the passage of the Natural Gas Policy Act of 1978 authorizing the federal government to take emergency actions to resolve the problem. Coal, it seemed, was the only viable alternative to the grip of foreign oil suppliers. How it has all turned around where, due to innovative fracking techniques, natural gas is now abundant and the fuel of choice. Coal boilers are now being converted to natural gas, and Lipten is an expert at boiler fuel conversions.



2016 was a successful year for Spencer Racing and its sole driver Eric Filgueiras in the Cooper Tires USF2000 Championship Powered by Mazda National Class. The team wrapped up the final weekend at the 11-13th rounds of the series for the class in Mansfield, OH with wins in each outing, securing the championship for the young driver and team.

During the successful season, the team and driver racked up 9 wins out of 12 races entered, a tremendous feat for both, with highlights ranging from the season opener in St. Petersburg to winning and standing on the podium at the historic Indianapolis Motor Speedway. Although the team had a few issues at the Road America rounds, the team rebounded to win at Toronto.

In Toronto, the team surviving carnage filled practice sessions and the #12 Lipten Energy Solutions car rolled into race one 1st in class and 17th overall. After two cautions and hard racing from everyone, Filgueiras came across the stripe for the final time 1st in class and 14th overall. Race two would be a similar scenario, with chaos striking right off the line from the start, and lots of attrition to dodge. Ultimately the Spencer Racing pilot would bring the car home clean for 2 wins in class and 13th overall in race two - a season best!

"It was truly a great year for us, to be able to come into the series and show success means a lot about what we're trying to do as we continue to grow our team and for me to move forward as a driver" driver Eric Filgueiras explained "I really owe everything this year to team owner Jim Spencer, my father and everyone who continues to believe in me and continues to support my ambitions!"

Lipten is Hiring!

Lipten is looking for experienced power plant mechanical engineers, project managers, software developers and service technicians.

If you're interested in a dynamic career with a healthy, growing firm, you've come to the right place. Lipten Company offers competitive salaries and a comprehensive benefits package including medical, dental and 401(k) as well as three weeks paid personal time off in addition to ten paid holidays. Lipten is an equal opportunity employer

[Click here](#) to see if you are interested in potentially being part of the Lipten winning team.

Lipten Mission Statement

*Lipten will make "power" a source of value for our clients by providing superior engineering, procurement and construction of steam, hot water, compressed air, chilled water and electrical systems. Lipten operates profitably throughout the world in an ethical, environmentally sensitive and socially responsible manner while focusing on the core principals of systems' safety, reliability and efficiency. **Essential to achieving our goals is our dedication to maintaining a positive working environment.***

Please [Click Here](#) to view newsletters and more on the LIPTEN website.

Lipten is an Engineering, Procurement and Construction (EPC) firm that specializes in Central Energy Plant (CEP) design and construction. Lipten also has a controls group that provides standard and custom control solutions.

Lipten provides steam generation, power generation, chilled water systems, compressed air systems, water treatment systems, controls and related Energy Center equipment and services. Lipten's level of support can vary from an advisory role to complete turn-key facility construction. Services include: design, engineering, drafting (CAD), equipment specifications, procurement, installation, construction management, site audits, start-up, operator training and maintenance.

