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LIPTEN

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ISA MEMBER
CHP EPA COMBINED HEAT AND POWER PARTNERSHIP

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www.lipten.com

The LIPTEN LETTER

A PERIODIC REPORT FROM LIPTEN COMPANY

Inside this issue:

News Bits:

Lipten has been awarded a contract to retrofit two coal boilers at Ford Motor Company's Cleveland Casting Plant with low NOx vertically up-fired gas burners and *Combustion Pac* control systems.

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For Owens Corning's Trumbull division, Lipten is upgrading the controls on a thermal oxidizer at their Jacksonville, Florida plant with a *Combustion Pac* system.

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Lipten is implementing a PLC based control system for a Deaerator System at DaimlerChrysler's Detroit Axle Plant.

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Lipten has opened a new office in California to handle the needs of the west coast region. The office will be headed by Tony Walvoord.

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Powerhouse Upgrades

Hamburg, PA. —

Lipten Company was contracted to supply and install new controls & instrumentation equipment for the Hamburg Center State Hospital Powerhouse . Within this scope, Lipten provided three (3) new *Combustion Pac* Boiler Control System Packages; two for field erected coal fired boilers and one for a packaged watertube, fuel oil fired boiler. All systems were designed to fit within the existing control enclosures. A new Plant Master Control System was also included to accommodate the ancillary equipment.

The project included staged demolition of the old control equipment to maintain two boilers in operation at all times.

The new control systems are based on Programmable Logic Controllers (Allen-Bradley) and

touchscreen operator interface panels (EZ Automation).

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Innovative Stone Dryer Installation

Navarre, OH —

Lipten Company has completed the installation and commissioning of a unique low cost dryer concept for the Cultured Stone division of Owens Corning. To implement drying for cultured stone products, Lipten combined standard insulated refrigeration shipping containers with off-the-shelf HVAC furnaces and the versatile Lipten *Combustion Pac* control system to create a simple yet effective drying system. The automated system allows unattended operation of the drying process.

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New Personnel

Wixom, MI — Lipten has two new additions to our staff.

Robert Davis has joined Lipten's engineering staff in the position of Control Systems Engineer. Working at Lipten's main office in Wixom, his responsibilities include control systems engineering and development.

Scott McCullough is Lipten's newest Project Manager. Scott will be taking the lead on several current and new projects for the company.

Bemark Associates

Mark , Michael Scott and Bernie Macknis

Bemark Associates, Inc. became a Lipten Sales Rep in 2005. The company was incorporated on April 22, 1997 as a manufacturer's representative company. The charter for the company is to provide the best solutions possible within the constraints of economic limitations reserving integrity as their primary guide.

Their markets include the utility, petro-chemical, chemical, cement, pharmaceutical and manufacturing industries as well as municipal and privately held projects in the mid-Atlantic region which covers southern New Jersey, eastern Pennsylvania, Delaware, Maryland and Washington, DC.

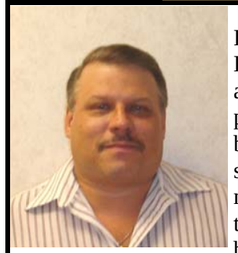
They address capital projects as well as maintenance and service related projects associated with steam, electricity and process systems for manufacturing or heating. Their goal is to identify all of the relevant projects in the assigned territory and present them for consideration .

Mark, Michael Scott and Bernie are ardent sports fans, particularly in baseball and football, with allegiances to the collegiate scene as a result of their degrees from the University of Delaware, the University of Alabama and the U. S. Naval Academy, respectively. Professional followings are for the Philadelphia Phillies and the Philadelphia Eagles.

Mark's interests extend to nurturing his two daughters, along with his wife Kim, while Michael Scott has interests in hiking and thoroughbred racing. Bernie's interests have a long history in stamp and coin collecting and installation of paver systems. None are successful at Texas Hold-em!

Spotlight On ...

Robert Davis



Robert joined Lipten this May. He specializes in the design and development of programmable controller based combustion control systems for ovens, HVAC and most recently boilers and thermal oxidizers. Robert brings 18 years of controls system experience to Lipten's staff. His professional accomplishments include control systems for many major manufacturers including:

- DaimlerChrysler—Detroit Axle (Deaerator Tank Controls Upgrade)
- DaimlerChrysler, Toledo Ohio (Jeep)
- Toyota, Tijuana Mexico
- Ford, Brownstown Michigan
- Kenworth, Seattle Washington
- Boeing, Wichita Kansas
- Tappon Corona, Mexico City Mexico
- John Deer, Saltillo Mexico
- J.I. Case, Fargo North Dakota
- Gorky Automobile Plant, Nihzney Novgorod Russia
- Honda, Marysville Ohio
- Manville Corp, Toledo Ohio
- International Harvester, Indianapolis Indiana

Education / Training

Electrical Engineering Technology
National Institute of Training

UAW Electrical Apprentice
Macomb Community College

Employment History

Haden International
Controls Engineer

Dynamic Electric Controls
Control Panel Builder and Designer

Personal

A self-declared "boat nut" Robert enjoys many outdoor activities including fishing, snowmobiling and hunting. Robert and his family are long time residents of Livonia, Michigan.

Combined Heat and Power Applications

by Jim Spencer

Wixom, Michigan –

Combined Heat and Power (CHP) may be used in a variety of applications ranging from small 1 Kilowatt systems to very large utility-scale applications approaching 1000 Megawatts. The first step in assessing which CHP application is right for your particular facility is to identify whether there is a coincident demand of electrical and thermal energy at your site.

The CHP project will be most economically viable when the system provides the maximum amount of energy that can be used. Therefore, CHP project development begins with an analysis of site electrical and thermal load profiles. Based on these profiles, the type of CHP technology which most closely matches your facility's power and demand can be chosen.

Additional factors influencing CHP project economics and design include: the need for reliable backup power, the cost of electricity, the availability and cost of fuel, the system operating hours, and the impact of favorable or unfavorable policies and incentives in the region where the project is being considered. Due to the variety of CHP equipment available today, CHP applications have been implemented at a wide variety of facilities nationwide, including:

- *Industrial manufacturers* – chemical, refining, ethanol, pulp and paper, food processing, glass manufacturing
- *Institutions* – colleges and universities, hospitals, prisons, military bases
- *Commercial buildings* – hotels and casinos, airports, high-tech campuses, large office buildings, nursing homes
- *Municipal* – district energy systems, waste water treatment facilities, landfills, K-12 schools

Is your facility a good candidate for CHP?

- *Do you pay more than $.06/ kWh on average for electricity (including generation, transmission and distribution)?*
- *Are you concerned about the impact of current or future energy costs on your business?*
- *Is your facility located in a deregulated electricity market?*
- *Are you concerned about power reliability? Is there a substantial financial impact to your business if the power goes out for 1 hour? For 5 minutes?*
- *Does your facility operate for more than 5000 hours/ year?*
- *Do you have thermal loads throughout the year (including steam, hot water, chilled water, process heat, etc.)?*
- *Does your facility have an existing central plant?*
- *Do you expect to replace, upgrade or retrofit central plant equipment within the next 3-5 years?*
- *Do you anticipate a facility expansion or new construction project within the next 3-5 years?*
- *Have you already implemented energy efficiency measures and still have high energy costs?*
- *Are you interested in reducing your facility's impact on the environment?*

If your answer is yes to any of the questions above you owe it to yourself to contact Lipten Company for an evaluation of your system.