GEORGE T. WILKINSON, INC. Energy Efficiency Engineers

Pipeline

Fall 2008

Specialists in Advanced Combustion Technology Since 1951
Call 800-777-1629

FROM THE PRESIDENT

Save money this winter by planning ahead

With cold, New England days nipping at our heels, I'm sure everyone has the same thing on their minds – high fuel prices that translate to higher heating bills.

While I can't predict if the days ahead will bring any relief to the cost of oil or natural gas, I can advise you on how you can keep your heating bill down this winter.

I can't stress enough, how important it is to think and plan ahead. It is imperative to perform annual maintenance on all of your heating equipment, no matter how well it currently operates.

Routine maintenance not only lowers fuel costs but also reduces the risk of system breakdowns and extends the lifetime of the equipment. Scheduling maintenance prior to the winter season also safeguards against any unexpected wintertime break-downs.

I also recommend weekly equipment check-ups preformed by qualified in-house personnel.

In addition to preparing your equipment for increased use during below-zero temperatures, there are a number of ways building occupants can help reduce fuel use:

- Seal any cracks around windows and doors

PRESIDENT, *continued on page 3*

Wilkinson helped Cranston Print Works save hundreds of thousands of dollars in operating costs and become a greener company.

CLIENT SERVICES

Cranston Print Works chooses Wilkinson; reduces NOx emissions by 81 percent

With the help of George T. Wilkinson, Inc., Cranston Print Works Company (CPW) reduced its carbon footprint by decreasing its NOx emissions by 81 percent.

As a facility burning #6 oil, CPW is required to meet specific NOx emissions standards and now functions well below the state limit. CPW also eliminated substantial costs associated with NOx testing required by state protocol.

Plus, thanks to new, green technology, CPW is now an automatic, non-manned plant.

CPW is the oldest textile printing company in the United States, dating back to the establishment of a tiny cotton printing plant founded by Rhode Island governor William Sprague in 1824.

Today, the company provides quality textile printing and finishing.

Earlier this year CPW operated a high-pressure plant converted to low-pressure steam. But the organization sought to operate a more efficient plant and become a greener company.

Because of an excellent reputation throughout the industry, Wilkinson was selected to perform the job.

CRANSTON, *continued on page 2*

Trivia

THIS ISSUE'S QUESTION

Q. During the 1850s steam boiler explosions were occurring at an alarming rate, though it wasn't until 1865 when the worst boiler disaster in U.S. history occurred. This same event is also known as the worst maritime disaster in U.S. History. What is the name of the famous ship involved and on what river did it meet its demise?

E-mail your answer to csandison@gtwilkinson.com by December 1, 2008. Please include your address. Winners will receive a George T. Wilkinson, Inc. gift pack and their names will be listed at www.gtwilkinson.com.

Last Issue's Trivia Question:
In 1863, a confederate gunship traveling on a Florida river stopped to rest in the town of Blountstown. The next morning, as the ship's crew raised steam to move off a sandbar, the boiler exploded and the ship sank in the shallow water. The ship was later raised and repaired. At the end of the war the ship was burned by its crew, but a piece of the ship's hull can be seen today at the Port Columbus National Civil War Naval Museum. What is the name of the ship?

A. The C.S.S. Chattahoochee

MOBILE BOILERS

Wilkinson keeps Boston Medical Center online

When Trigen, the local steam supplier for Boston, needed to shut down steam lines to Boston Medical Center (BMC) to repair and replace several expansion joints in the piping, Wilkinson Mobile Boilers, Inc. was brought onsite to keep the academic medical center up and running.

The Trigen Companies own and operate the largest portfolio of District Energy (heating and cooling) systems in the United States. The company operates facilities in 11 cities.

To prepare for a job of this nature, John Sieminski, service operations manager at Wilkinson, and Steve Giordano of Trigen coordinated the placement of eight mobile boilers to supply BMC with steam during the shutdown.

BMC has the largest 24-hour Level 1 trauma center in New England, so it is vital for the building to remain online at all times.

Wilkinson mobile boiler units are designed to meet a variety of needs with the least inconvenience. Each trailer-mounted room is completely self-contained and contains all essential elements for operation.

The entire plant operates from the trailer ensuring the equipment and operators are fully protected from the elements.

These units are also designed to blend into their environments so they do not detract from the landscape.

Plus, savings in time and cost are possible because no cranes or rigging are required and time is not lost positioning and using them.

Seven of the boilers brought onsite at BMC were high-pressure steam. The eighth was for domestic water.

Wilkinson engineers had a variety of equipment to take into consideration:

Wrenn Dialysis Building: 70 HP high-pressure boiler with a portable generator
Dental Building: 50 HP domestic hot-water boiler

Bio Square: 2- 650 HP high-pressure boilers with 2-5000 gallon temp oil tanks and 2 portable generators
Atrium: 200 HP high-pressure boiler with a portable generator
Power Plant: 200 HP and 350 HP high-pressure boilers with two portable generators
Cathedral Housing: 150 HP high-pressure boiler

The equipment was set-up in just three days under the supervision of Sieminski and Wilkinson senior technician, John Colborne.

Finally, during the week of May 25 all of the boilers were fired and tested.

On Friday, May 30, Trigen shutdown their steam and the Wilkinson mobile boilers powered BMC for the entire weekend.

A weekend shutdown was scheduled to accommodate the substantially lower weekend steam demands.

The steam line was once again energized by Trigen on Monday. The mobile boilers were then taken offline for the duration of the week, with the same scheduled shutdowns occurring the following two weekends.

"In the end, the project was a complete success," said Sieminski. "At no time did Boston Medical Center have any interruption of steam or hot water to any of its buildings."

2

CRANSTON, *from page 1*

CPW researched and visited several suppliers when it came to choosing equipment.

In the end, the company was most impressed with Hurst Boiler, Inc., the manufacturer of a complete line of solid waste, gas, coal and oil fired steam and hot water boilers.

"The people at Hurst were upfront with us from the beginning. They exceeded our expectations at meetings by being prepared for every question we asked," said Canuel.

As for a burner system, CPW was looking to work with a top company in the industry. Canuel explained they not only wanted a manufacturer who would provide state-of-the-art equipment for today, but also who was properly prepared to offer cutting edge equipment well into the future. Power Flame was the perfect choice.

Power Flame manufactures gas, oil, combination gas and oil, low NOx burners and combustion control systems for commercial, industrial and process applications.

CPW decided to use Autoflame® coupled with Power Flame because it was the best software package leading into the future.

The Autoflame® Mark VI™ Combustion Control and Management System burns fossil fuels more efficiently, within constantly decreasing limits, essentially cutting costs.

The Mark VI™ burner management system can achieve and maintain an 82 percent combustion efficiency on natural gas and 86 percent when firing on #2 oil.

Wilkinson is the regional representative of Power Flame in Maine, New Hampshire and Eastern Massachusetts, plus the exclusive representative for Autoflame® in Southern New England, so there was no problem supplying this specialized equipment.

In the end, the installation was seamless. CPW reported they "started up the factory without losing one hour!"

"All in all I was very satisfied. Wilkinson exceeded my expectations," concluded yet another very happy customer.

Industry News

Energy outlook shows decrease in natural gas prices

The Energy Information Administration (EIA) released its short-term energy outlook August 12, reporting a decrease in the price of natural gas.

The Henry Hub spot price of natural gas averaged $11.45 per Mcf in July, which is $1.62 per Mcf below the average spot price in June. This decline marks the end of consecutive increases in the monthly average price since October 2007.

For the most part, commercial uses of natural gas are very similar to residential uses. The commercial sector largely consists of public and private enterprises such as office buildings, schools, churches, hotels, restaurants and government buildings.

Typically, the main uses of natural gas in the commercial sector include space heating, water heating and cooling. For establishments that may require cooking facilities, natural gas is also a popular choice to fulfill these needs.

Recently more and more commercial facilities have reportedly been converting to natural gas powered heating and cooling equipment.

"The commercial HVAC industry has been completely upended by the cost of fuel. Over the past few months Wilkinson has experienced numerous calls for oil to gas conversions," explained Geoffrey Wilkinson, Jr.

According to the EIA, the average price of regular gasoline is expected to remain greater than $4 per gallon until the fourth quarter of 2009.

Natural gas cuts costs and is a more efficient alternative to oil as it loses very little of its energy value as it reaches its point of end-use.

The cleanest of all fossil fuels, natural gas, is essentially composed of methane. The main products of its combustion are actually the same compounds exhaled when breathing – carbon dioxide and water vapor. Natural gas therefore releases lower levels of harmful emissions, including the ratios of carbon emissions, nitrogen oxides and sulfur dioxide, than fuels such as oil and coal.

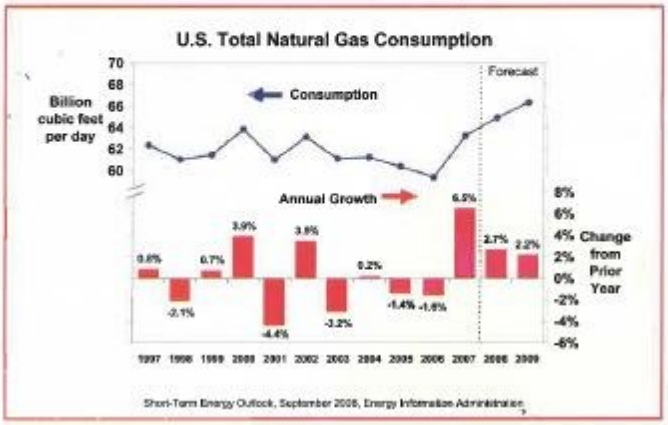
Coal and oil release particles of ash into the air, contributing to pollution, while the combustion of natural gas releases very small amounts of sulfur dioxide and nitrogen oxides, virtually no ash or particulate matter and lower levels of carbon dioxide, carbon monoxide and other reactive hydrocarbons.

Of course, thanks to new green technologies, such as Autoflame®, many harmful emissions derived from burning oil can now be significantly reduced.

Global demand for natural gas appears to be on the rise, particularly in the United States and China. According to the EIA, total U.S. natural gas consumption is expected to increase by 3 percent in 2008 and by 1.7 percent in 2009.

Spot prices are expected to remain below $10 per Mcf until December, when space-heating demand rises. On an annual basis, the Henry Hub spot price is expected to average $10 per Mcf in 2008 and $9 per Mcf in 2009.

Like others across the nation, your organization may benefit from switching to natural gas. Changeovers are quick and less costly than you may think. Call Wilkinson today for a free cost analysis.



Pipeline

GEORGE T. WILKINSON INC.

Geoffrey C. Wilkinson, Sr. . . . . .President
Alan C. Bishop . . . . . .Vice President of Sales
William F. Holloway . . . . . .Vice President Finance & Administration
John F. Sieminski . . . . . .Operations Manager

For changes of address or to suggest story ideas, please contact Carol Sandison at (781) 335-2622 or e-mail ideas and comments to csandison@gtwilkinson.com.

www.gtwilkinson.com

PRESIDENT, *from page 1*

- Set thermostats to a lower temperature when no one is around
- Shut drapes and blinds at night to reduce heat loss
- Use weather stripping around windows and doors

If you're worried about forgetting to schedule your maintenance be sure to ask me about Wilkinson's various maintenance plans. There's sure to be one to fit your needs.

Good luck and keep warm!

Respectfully,

Geoffrey C. Wilkinson
President

GREENBUILD
INTERNATIONAL CONFERENCE AND EXPO

Wilkinson to attend Greenbuild Expo in Boston

The U.S. Green Building Council's Greenbuild International Conference and Expo will be held in Boston at the Boston Convention and Exhibition Center from November 19 to 21. The Greenbuild event includes educational sessions featuring guest speakers, LEED workshops, offsite educational sessions and tours of local "green buildings" in Boston. This is an ideal opportunity to connect with other green building peers, industry experts and influential leaders. Wilkinson will be located at booth #1151. Stop by to learn how you can achieve 7 to10 percent savings on your fuel bills. Learn more at www.greenbuildexpo.org.

4

U.S. Consuming less oil due to high prices

The Energy Information Administration's (EIA) Short-Term Energy Outlook notes the decline in U.S. oil consumption for the first half of 2008 was the largest in the past 26 years. The EIA expects U.S. oil consumption to continue to fall in 2009, dropping 120,000 barrels per day below the 2008 average.

ACHR News, August 2008

New EnergySmart Hospital Initiative promotes energy efficiency

The Department of Energy is providing existing hospitals with various tools to improve energy efficiency by 20 percent and to help develop new hospitals that are 30 percent more efficient than current standards. The nation's 8,000 hospitals are among the most energy intensive commercial buildings in the U.S., with more than 2.5 times the energy intensity and carbon dioxide emissions of commercial office buildings. Last year, hospitals spent more than $5 billion on energy. Learn more at www.eere.energy.gov/buildings/energysmarthospitals.

ACHR News, August 2008

WILKINSON GEORGE T. WILKINSON, INC.
Specialists in Advanced Combustion Technology Since 1951
P.O. Box 890147 • East Weymouth, MA 02189
800-777-1629
energy@gtwilkinson.com
www.gtwilkinson.com

PRSRT STD
U.S. Postage
PAID
Monument Beach, MA
PERMIT NO. 1