

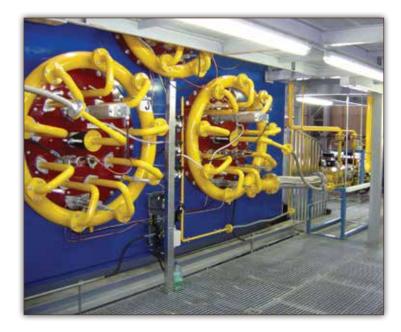
OUT WITH THE OLD AND IN WITH THE NEW Coal-to-natural gas conversions

Spring cleaning – you dread doing it, but you feel so much better when it's done. Spring cleaning might look a little different at industrial facilities across the county, this year and in years to come. Not only will they have to knock out the cobwebs, but there's a chance they might have to convert their coal fired facility to a natural gas fired facility.

There are two main factors on why a facility would convert from coal to natural gas.

1) It is more economically favorable to burn natural gas

As natural gas reserves become easier to access through means of modern technology, opportunities are created



that can alter entire industries. Due to the increase in supply of natural gas, the price has dropped, making it economically viable for plants to undergo coal-to-natural gas conversions. Though natural gas won't solve the world's energy problems, it is a step in the right direction for cleaner and more sustainable energy.

2) It could be mandated by legislation

The last several years have been uncertain times for coal fired facilities. Legislators have proposed a wide variety of government mandated regulations around emissions requirements. Those facilities have one of two options:

• Retrofit their existing coal fired boilers to meet the new emissions standards.

OR

 Convert the facility to natural gas. Fives North American is a leading provider of specialty low NOx burners that can help facilitate upcoming plant conversions.

The more affordable option for plants is to complete the natural gas conversion due to its favorable economic situation and future. As emissions regulations continue to tighten, you will see an increasing number of coal fired facilities convert to natural gas. For more information about how these regulations might affect your facility, call Ware today.

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Ware Cares – Safety Through Boiler Lockout Tagout

Boilers contain a massive amount of potential energy when in operation. If dealt with improperly, the results can be catastrophic. Whether we are supplying rental equipment or selling new equipment, we genuinely care about the safety of our clients and our employees.

When the time comes to shut down your boiler, critical steps must be taken to ensure the safety of all involved parties. OSHA section 1910.147 outlines the considerations that should be taken when preforming lockout tagout (LOTO). Here are some of the key aspects as it relates to OSHA's guidelines for LOTO.

Communication is key to any healthy relationship

Make sure you do not have "A failure to communicate." An employer must communicate and train equipment operators on:

- Recognition of hazardous energy sources
- The magnitude of available energy in the workplace
- Energy control procedure
- Recognition and understanding of all applicable • tags

Keep it Orderly – Equipment Shutdown

The equipment shall be turned off or shut down

using the procedures established for the equipment An orderly shutdown must be utilized to avoid any additional or increased hazards to employees.

- ٠ Isolate equipment from all energy sources
- Affix all lock out tag out devices to all energy isolating devices so they cannot be engaged

A typical boiler Shutdow and LOTO will follow these basic steps:

- 1. Turn off boiler at the control panel
- Turn off control power on control panel. 2.
- 3. Turn off power at main breaker panel then lock the control pannel
- 4. Shut off main gas valve and lock
- 5. Close pilot light valve
- 6. After boiler has stopped generating steam, close main header valve and lock
- 7. Lock blow down line in closed position
- 8. Switch feed water pump off to boiler
- 9. Close feed water valve
- 10. Open atmospheric valve on main steam header valve

Any questions? For more information about boiler safety call WARE today!

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All equipment listed is for sale or lease and subject to availability

Unit	HP/PPH	Year	Manf.	Fuel	Туре	PSI	Ctrl.
779	82,500	2013	Victory Energy Limpsfield	G/#2	Steam	350	IRI
767	75,000	2011	Victory Energy	G/#2	Steam/SH	750/750	IRI
747	75,000	2000	B&W (Low NOx)	G/#2	Steam/SH	750/750	IRI
750	70,000	1996	Nebraska (Low NOx)	G/#2	Steam/SH	750/750	IRI
709	60,000	1979	Zurn (Low NOx)	G/#2	Steam	500	IRI
741	60,000	1979	Zurn	G/#2	Steam	550	IRI
SB79	40,000	1986	Cleaver Brooks	Gas	Steam	260	IRI
496	800	1990	York-Shipley (Low NOx)	G/#2	Steam	200	IRI
6 <mark>3</mark> 4	800	1972	York-Shipley	G/#2	Steam	150	IRI
620	800	1975	York-Shipley	G/#2	Steam	250	IRI
SB139	500	2001	Cleaver Brooks		Steam	150	
SB200	400	2014	York-Shipley (Low NOx)	G/#2	Steam	150	UL/CSD1
SB138	350	1994	Cleaver Brooks		Steam	150	BELL. M
SB137	250	1994	Cleaver Brooks		Steam	150	
415	250	1980	Eclipse	#2 Oil	HT/HW	954	IRI
SB148	200	1995	Kewanee	Gas	Steam	325	IRI
SB146	200	1995	Kewanee	Gas	Steam	325	IRI
SB216	250XID	2015	York-Shipley(Low NOx)	G/#2	Steam	150	UL/CSD1
SB213	175XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB194	175XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB210	175XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB204	150	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB214	150	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
SB209	150	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
RB769	150	1998	Precision	Electric	Steam	150	UL
SB212	100XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB217	100XID	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
SB208	100XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB206	70	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB207	50	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB211	50	2014	York-Shipley	G/#2	Steam	150	UL/CSD1

One hour quote on-line at www.wareinc.com or call 800-228-8861

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	and the second						
Unit	HP/PPH	Year	Manf.	Fuel	Туре	PSI	Ctrl.
SSB33	50 hp	2015	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB21	70 hp	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB31	100XID	2014	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB32	150	2015	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB20	175XID	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB25	250XID	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB14	300XID	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB15	500XID	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB28	600XID	2012	York Shipley	(Low NOx) G/#2	Steam	250	UL/CSD-1
SSB30	800XID	2014	York Shipley	(Low NOx) G#2	Steam	250	UL/CSD-1
			A star				
Unit	Size	Manf.	Volt.	Туре	Year	-	
RC-24	/ 30 ton	Mc Quay	480v	3 ph	2000		
RC-21	40 Ton	Mc Quay	480 v	3 ph	1999	y	
RC-1	60 Ton	Mc Quay	480 v	3 ph	1995		
RC-2	60 Ton	Mc Quay	480 v	3 ph	1995		
RC-13	60 Ton	Trane	200-230 v	3 ph	1989		2.861
RC-5	95 Ton	Mc Quay	480 v	3 ph	1995		M M
RC-6	105 Ton	Mc Quay	480 v	3 ph	1995		AGA
RC-8	155 Ton	Mc Quay	480 v	3 ph	1995		
RC-10	195 Ton	Mc Quay	480 v	3 ph	1995		7/3
RC-11	195 Ton	Mc Quay	480 v	3 ph	1995	6	174
RC-25	300 Ton	Mc Quay	480 v	3 ph	2003		



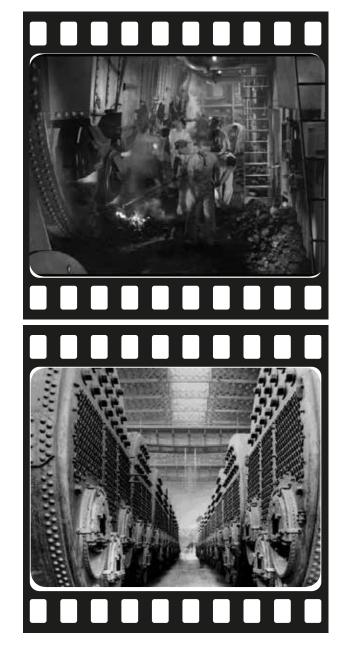
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STEAM IN CINEMA PART 3

A pril 14, 2015 marks the 103rd anniversary of the most infamous maritime disaster in history—the sinking of the Titanic. Our devotion to boilers drew our attention in James Cameron's 1997 blockbuster film, which ended up grossing over \$2 billion worldwide and made it the 2nd highest grossing film of all time. You might remember seeing the ship's boiler rooms in several scenes, most notably when the ship begins to take on water and all the watertight doors are being shut to slow down the flow of water into the ship's compartments.

While the Titanic was ironically called "unsinkable", the ship's size certainly justified its name, so we wondered, just what did it take to move a ship like that? As it turns out, to power the vessel, there were 29 boilers onboard that each stood about 2 stories tall and produce a steam supply at 215 psi. Many of them had furnaces on both sides, which amounted to a total of 159 furnaces. With that many coal-hungry furnaces, it took a crew of 200 men just to keep them full of stone. If the ship wished to remain at full speed, it would need to consume over one million pounds of coal each day!

Those boilers fed steam to the main engines to propel the ship, and they also made steam for dynamos and heat exchangers to generate electricity and hot water. While the average person may not be very familiar with boilers, the fact remains that steam generation is the backbone of many of humanity's great undertakings, and it continues to allow us to produce goods and services on a scale that would make even a vessel as large as the Titanic feel small.



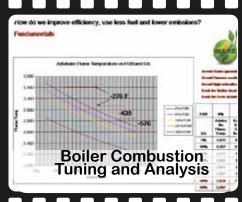




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Heat Sponge

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Links WARE Likes

National Board Synopsis of Boiler and Pressure Vessel Laws, Rules and Regulations http://www.nationalboard.org/ViewAllSynopses.aspx

American Boiler Manufacturer Association http://www.ABMA.com

Natural Gas Futures Prices - NYMEX http://www.wtrg.com/daily/gasprice.html

> Boiler Mact Compliance http://www.boilermactsolutions.org

More Links To Come

WARE BOILER UNIVERSITY \$100.00 dollars off when you register on-line for Boiler University at www.wareboileru.com

2015 Class Dates and Locations

Chattanooga, TN July 14 -16, 2015 December 8 - 10, 2015

Jeffersonville, IN May 5 - 7, 2015 September 15 - 17, 2015

for more details: WAREBOILERU.COM



TEE SHIRTS FOR SALE

All net proceeds from the sale of SteamWARE T-shirts go to Kosair Charities, where health care is provided to Children when there is no one else to turn to.

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