If It Ain't Broke, Be Ready to Fix It

by Alex Taylor

You are probably not familiar with English actor Christopher Parker, but there is a quote attributed to him that is good to know: "Procrastination is like a credit card: it's a lot of fun until you get the bill." It is common knowledge that putting things off until the last minute tends to have poor results, however, sometimes it simply cannot be helped, can it? Whether you are a business owner, facilities manager, purchasing agent, maintenance supervisor, or any other position involved in keeping your facility running, chances are that you are extremely busy. You probably keep a running list of priorities: what can wait and what needs to be handled immediately? While we would all love to be able to knock out every maintenance issue at once, the sad reality is that most of us have to manage our priorities and put off lower priority tasks until more pressing matters are handled. That being said, without having all the information in your hands, you may be accidentally putting something off that will make the "bill" far more serious in the future.

When it comes to boilers, most of you will either concentrate on immediate problems that threaten the continued operation of your facilities, or you will be thinking about upcoming issues that may result from those lower-priority tasks that you're forced to put off until later. But how often have you considered the system components that are NOT in need of immediate attention? The old saying goes "out of sight, out of mind", and with so much on your plate, you're probably happy to not concern yourself with things that are currently running just fine. However, if certain parts of your system fail, do you know how quickly you can repair them and get back online?

Well, we live in a world where just-in-time manufacturing (building it when you get an order) has become an increasingly popular model, as it prevents a lot of up-front spending on inventory that would likely sit on a shelf for months, if not years. The only downside to this model is that if you need an emergency part and it has a long lead time or is not regularly stocked, you could be down for an exceptionally long period of time. While smaller/common valves, gauges, regulators, and pumps may be stocked, many larger, more expensive parts are seldom ordered and will have a long lead time. For example, some pumps for superheated systems can have a standard lead time of 6 months or more! While this may not be the case for you, many other parts can still take a while to produce. How long can you afford to be down? A few days? Several weeks?

To avoid a potential shutdown crisis in the event of a complete parts failure, take inventory of your most important boiler parts—things that you have no way of providing a temporary fix for—and get a price and lead time on them. It might not be feasible to stock spare parts for everything, but you can still get an idea of what your options will be in the event of an outage. Knowing the cost and time that it will take can help you with introducing redundancy measures, prioritizing your maintenance, building a backup plan in case you do have an unexpected shutdown, and having answers ready for the people in your organization that will surely be pressuring you to get back online as soon as possible.

If you need a help sourcing boiler parts or forming a contingency plan for a temporary solution, the experts at WARE are more than happy to help you out! You can check out **boilerwarehouse.com** to see if your critical parts are among the more than 40,000 parts that WARE regularly stocks, or call in to work up a contingency plan. Don't procrastinate—knowingly or otherwise. Instead, make informed decisions when you plan out your priorities, and when that dreaded day of crisis finally arrives, you can remain calm and know that you have prepared for it.

Special Announcement

WARE Announces New Partnership with Victory Energy on Firetube Boilers

WARE is excited to announce our partnership with Victory Energy to provide some of the most advanced and robust firetube boiler solutions on the market. Victory's Frontier Firetube boiler design exceeds the stringent steam demands of our customers. This particular design was engineered with the end user in mind.

This partnership will help to standardize our boiler offering, promoting consistence and reliability across all of our product lines.

When asked about the significance of WARE's partnership with Victory, Director of Sales, Steve Taylor responded, "WARE has partnered with Victory since their inception on watertube boilers and has been utilizing their wetback design for many years. It is a natural progression to further develop the dryback partnership with the fastest growing boiler manufacturer in the US." Taylor went on to say, "This partnership will greatly enhance our rental fleet and the quality of boiler we can offer to our clients."

"The most important thing gained from the partnership is streamlining our product line, so all of our watertube and firetube boilers will come from the same manufacturer, and it strengthens our relationship with Victory Energy," said Taylor.

All standard units are 3 pass boilers and include low NOx burners. WARE stocks firetube boilers from 50hp to 800hp with 150psi to 250psi in order to meet any steam demand that might arise.

Dryback design highlights:

-Engineered to optimize water circulation
-Low maintenance rear wall design – single door to open to access furnace
-Extra wide furnace section to accomplish 55-65% of heat transfer

Wetback design highlights:

-Liberal steam disengaging surface
-Extra-large turn around section to allow easier access to boiler internals
-Most robust design on the market

We are excited about what this partnership is going to bring to WARE and our customers. Our standard offering of firetube rental boilers is well suited to integrate seamlessly into most every application requiring supplementary or emergency steam. At any one time we stock 20 to 25 boiler units for purchase in various sizes and ready if need arises for your facility.

WARE has firetube boilers ready for immediate rental deployment as well as new boilers ready to be installed in your facility. For more information on our wide offering of solutions, call us today at 800-228-8861 or get a quote on-line at **WeRentBoilers.com**

Wetback and Dryback Boilers

The Fraternal Twins of the Boiler World

A question that we hear often is, "What is the difference between a wetback boiler and a dryback boiler?"
Wetback and dryback boilers are sort of like fraternal twins, you can definitely tell that they are twins, however there are a few distinct characteristics that help you tell them apart.

Their Names: Just like twins wouldn't share their first name, neither would these two firetube boilers.

- Dryback boilers, like their name infers, have a dry refractory rear wall.
- Wetback boilers have a water cooled rear wall.

Their Applications:

- Traditional Dryback boilers with low offset furnaces and multi-piece doors are well suited for slower reacting loads such as building heat.
- Victory's centerfired furnace dryback design allows them to not only be well suited for high cycling applications, but for applications with extreme process demands as well.
- Wetback boilers are also well suited to extreme process demands.

Their furnace sections:

- Dryback boilers have an open furnace section and the hot gas actually comes in contact with the rear wall of the boiler in the form of refractory.
- The centerfired furnace dryback design along with the single piece door allows for a more robust furnace section. The other advantage to the centerfired design is that the furnace itself typically accomplishes 60% of the work of the boiler, relying less on the tubes for heat transfer. This furnace design also allows for enhanced water circulation and lower thermal stress.
- Wetback boilers have an encased furnace section and the water on the rear wall will ensure even cooling.

Their rear walls:

- Traditional Dryback boilers have a multi-piece refractory rear wall. One advantage of the dryback rear wall is how easy it is to access. It is as simple as opening up a door.
- The centerfired dryback alows easy access to all of the tubes.
- Wetback boilers have a water cooled rear wall. Accessing the furnace from the rear wall is more challenging on a wetback boiler as it has a tighter manhole cover used to access the internal furnace section.

Their maintenance:

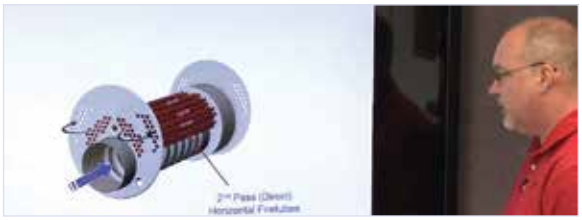
- Traditional Dryback boilers are easier to maintain, however, the multi-piece door design requires regular repair . The fact that the rear wall can be easily accessed by opening a door, means that the furnace and tubes are also easy to access if they need repairs.
- The centerfired dryback design with single piece door design incorporates easy access to the tubes while providing long door life.
- The maintenance on a wetback boiler is slightly more involved when tube or furnace work is required. It requires a technician to climb through a small manhole to access the internal turnaround section of the furnace to access tubes and the furnace section.

Their economics:

- In general, the centerfire dryback boilers are more economical than their counterparts, and in many applications, they will use less fuel.
- Wetback boilers contain more material due to the encased furnace. Those materials have a moderate effect on the cost of the boiler but are also a very durable design.

For more information on our cutting edge steam solutions call us today at 800-228-8861 or visit our website at **wareinc.com.**

Watch the video Dryback vs Wetback boilers on https://www.youtube.com/user/wareboilers



Informative WARE videos

You Tube

BOILING POINT

STEAM CULTURE

PRODUCT VIDEOS

HelioJet industrial cleaning technology - water jet

Heat Sponge

CASE STUDIES

Amelin

EKU - 48,000 Coal Boiler Retube

New York City Housing Authority

SUBSCRIBE to WARE youtube channel

youtube.com/user/wareboilers

For more Boiling Point videos: youtube.com/user/wareboilers

NEW VIDEOS UPLOADED ALL THE TIME.

WARE new and used List

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

Unit	HP/PPH	Year	Manf.	Fuel	Type	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
634	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	
SB138	350	1994	Cleaver Brooks		Steam	150	
SB226	400	2016	Victory Energy (Low NOx)	G/#2	Steam	150	UL/CSD1
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
SB220	175XID	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
SB210	175XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB217	150	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
SB224	150	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
RB769	150	1998	Precision	Electric	Steam	150	UL
SB225	100XID	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
SB221	100XID	2015	York-Shipley	G/#2	Steam	150	UL/CSD1

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

WARE BOILER UNIVERSITY

Next Available 2016 Classes

Chattanooga, TN
July 12 - 14
November 8 - 10

Jeffersonville, IN
September 20 - 22

For more details visit WAREBOILERU.COM

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.

4STEAMWARE.COM

WeRentBoilers.com

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

Unit	HP/PPH	Year	Manf.	Fuel	Type	PSI	Ctrl.
SB-234	50	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-227	50	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-230	70	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-229	70	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-232	100	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-231	100	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-228	100	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SSB33	50	2015	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB35	70	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB37	100	2016	Victory Energy	(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
SSB36	250	2016	Victory Energy	(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

Chillers

Unit	Size	Manf.	Volt.	Type	Year		
RC-24	30 ton	Mc Quay	480v	3 ph	2000		
RC-21	40 Ton	Mc Quay	480 v	3 ph	1999		
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		
RC-5	95 Ton	Mc Quay	480 v	3 ph	1995		
RC-6	105 Ton	Mc Quay	480 v	3 ph	1995		
RC-8	155 Ton	Mc Quay	480 v	3 ph	1995		
RC-10	195 Ton	Mc Quay	480 v	3 ph	1995		
RC-11	195 Ton	Mc Quay	480 v	3 ph	1995		
RC-25	300 Ton	Mc Quay	480 v	3 ph	2003		

VICTORY ENERGY
VAPOR POWER INTERNATIONAL
SPS SKINNER POWER SYSTEMS
PF
PARKER INDUSTRIAL BOILER
UNILUX
SIEMENS
TRI-SOLVE
Reimers
WOOD MASTER Commercial Series
cbw

WARE's annual 2016 Partners Conference

On April 22nd and 23rd WARE held its annual Partners Conference. Thirty three partners attended, representing 23 boiler mechanical companies across the US.

The Partners Conference kicked off with a tour of WARE, our maintenance facility, The Valve Shop and our new "Super High Efficiency" Mobile Boiler Room, followed by an informational meeting. The night ended at LeMoo, one of Louisville's premiere steak houses for a most enjoyable dinner.

The next morning, WARE kicked off the business meeting by handing out sales awards to some very deserving partners.

The High Fire award, to the partner with the highest total sales for the year.
Mr. Gary Jarrel, of Valley Boiler & Mechanical Roanoke, VA.

The Main Flame award, to partners who met their budgets.
Mr. David Grimard of American Combustion Industries, Glen Dale, MD.
Mr. Jim Buckpitt of Buckpitt & Company Rochester, NY.
Mr. James Hite of Combustion Service & Equipment Co Pittsburgh, PA.
Mr. Tim Powell of Hughes Machinery Lenexia, KS.
Mr. Kyle McCain of McCain Engineering Pelham, AL,
Mr. Tim Carberry Package Boiler & Burner Systems Menomonee Falls, WI.
Mr. Tom Schmidt of Stoermer Anderson Cincinnati, OH,
Mr. Lou Okonski of Troy Boiler Works Albany, NY,
Mr. Gary Jarrell of Valley Boiler & Mechanical Roanoke, VA.

The Ignition award, to the Partner that had the best start at the first year.
Mr. Chris Green Jr. of Mechanical Services, Incorporated Portland, ME.

Top Valves Sales
Mr. David Grimard of American Combustion Industries Glen Dale, MD.

The fun continued as the Partners dined at the Riverside Ballroom and watched the largest fireworks show in North America, "THUNDER " over Louisville. All had a wonderful time.

WARE appreciates all the hard work, time and effort of our Partners.

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