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World's Largest Superheat Mobile Boiler and Urea-Based CataStak SCR System Installation

THE NATIONWIDE BOILER STEAMLINES

July
2019

"...Integrity, Dependability, Real Customer Service."

Another 'World's Largest' Officially in Operation

Nationwide Boiler is known for doing big things; introducing the world's largest trailer-mounted saturated steam boilers (currently at 125,000 lb/hr), producing the world's first 1,000 hp mobile boiler room, launching the first urea-based SCR rental systems, and the list goes on.

In 2017, Nationwide Boiler came out with the world's largest trailer-mounted superheated steam boiler, weighing 220,000 lbs and measuring over 97 ft long! Built to deliver 110,000 lbs/hr of superheated steam with allowable operating pressures up to 680 psig, the first unit didn't even make it to the rental fleet. Instead, it was removed from its trailer and sold outright to a refiner in Canada.

The second 'World's Largest' superheat mobile boiler has officially made its debut in the rental market and is now in operation. This boiler found its temporary home for the next two plus years at a large refinery in the Midwest, and will be providing steam to support them in process-



ing over 200,000 barrels of crude oil per day.

The boiler, economizer, and associated equipment shipped in the spring with multiple truckloads from various locations, and was installed in what we suspect to be a record amount of time for this large of a system. During the install, Na-

tionwide Boiler performed an upgrade to the pre-existing burner management system from a standard Siemens 353 push-button controller to an Allen-Bradley PLC-based system with touchscreen controls. The customer is utilizing an Ethernet connection for communication.

To satisfy emissions requirements at the site, the boiler has been installed with a urea-based CataStak™ SCR system, guaranteed to reduce NOx emissions to 12 ppm or less. In addition, Nationwide Boiler partnered with Montrose Environmental to provide a temporary CEMS system for continuous monitoring and recording of NOx, CO, and NH3 emissions output per state requirements. The unit is operating great and exceeding NOx expectations, providing a steady output of around 8 ppm.

Along with our customer, we are pleased with the results thus far, and expect this unit to provide reliable steam and peace of mind throughout the duration of the rental.

100+ Number of boilers in our rental fleet

30 Representatives across the country

8 Storage and maintenance facilities across the US

The Millennial Mindset



I wanted to take a moment to touch on a major change we are seeing in our industry. That being, our aging workforce and the influx of young, aspiring adults tackling the boiler business.

We've all read a lot of negativity about the millennial generation. How they have different values and work habits of past generations, and how you have to treat and motivate them differently. Nationwide's employee base is now made up of about 25% millennials and I don't know about other companies, but I am very impressed by and encouraged with our millennial base.

We have many remarkable and enthusiastic young men and women in key roles throughout the company, including sales, engineering, accounting, marketing, service, and shop production. I feel it is our role as the leaders and elder statesmen (and women) of the company to help pass down our experience and knowledge to these young people so they can carry the torch and, as I like to say, help this business last another 50 years.

Sam

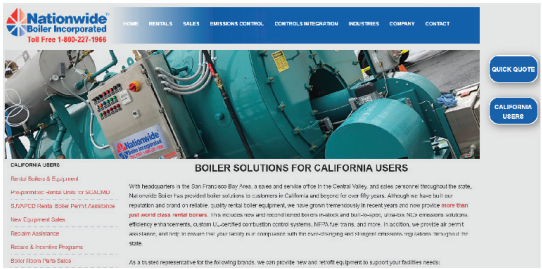
Continuing our Commitment to California

Although we serve customers across the globe, Nationwide Boiler is strategically positioned and committed to providing quality boiler solutions to industrial facilities throughout the state of California.

We recently launched a new section on our website containing valuable information for California boiler users. The focus of this section is to educate and provide resources related to temporary boilers, new equipment, emissions compliance, and rebates and incentives available for those pursuing qualifying equipment upgrades related to emissions and efficiency enhancements. In addition, the content provides details on air

permit assistance, the TREU program for SJVAPCD users, and the new RECLAIM rules for boiler owners in the SCAQMD.

With headquarters in the Bay Area and personnel located throughout the Central Valley and Southern California, Nationwide can assist with your next temporary, new, or replacement boiler project, as well as emissions compliance and efficiency upgrades. Check out our website for the full scoop!



Young Professionals Doing Big Things Employee Recognition: Nicolas Petty

Speaking of millennials, we would like to recognize our youngest engineer excelling in the field, Nicolas Petty. Joining us as an associate engineer a little over three years ago, Nic recently passed the P.E. exam, and has made quite the millennial mark here at Nationwide Boiler.

Nic takes the lead on the engineering side for much of the rental fleet at our HQ in Fremont. He along with our shop team is nearing completion on a brand new 650 hp ultra low NOx mobile boiler room. Nic has also begun managing a number of equipment sales projects.

At the end of 2018, Nationwide & Pacific Combustion Engineering were awarded two jobs by the VA, in which Nic was chosen as the lead project engineer. When asked about his experience thus far, Nic commented that he has gained a lot of knowledge and project management skills. He also said that it requires a lot of prioritization

and hard work, but he is excited to see the successful completion of the project. Not only is Nic excelling at work, he is also living his non-work life to the fullest.

In particular, Nic enjoys the outdoors, with his most recent hiking adventure at Half Dome in Yosemite National Park. He also enjoys many indoor activities such as playing intellectual games (like Setters of Catan) and watching his favorite TV shows (a current favorite being Madam Secretary). Nic is also a big foodie. His top two favorite cuisines are Thai and Korean, and his favorite restaurant is Gen Korean BBQ House in Fremont.



We are excited to see Nic continue to grow in his position, and help build the foundation for Nationwide to succeed another 50 years.

New and Replacement Boiler Room Parts

Nationwide Boiler is known for providing world class rental boilers, but we are also a one-stop shop for new and replacement boiler room parts. Not only are we a West Coast representative for Superior boilers and Webster burners, but we also represent multiple controls and instrumentation lines, including Honeywell, Rosemount, Fireye, Modicon, and more.

We stock a large inventory of new and replacement parts and equipment for a large variety of boiler room equipment, including boilers, economizers, deaerators & feedwater systems, and control panels, as well as burners built for high efficiency, high turndown, and ultra-low NOx emissions. If we have it in stock, your part can be shipped immediately for quick recovery time.

Let us know your needs, and we will find a solution.



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Industrial Emissions Conf.

Environmental compliance is not an option, which is why CIBO coordinates this event each year to provide insight into regulations and solutions for boiler owners. The conference is being held at the Holiday Inn By the Bay in Portland, Maine. Visit us at table #11.



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Southern Co. Technical Conf.

One of the world's premier utility-hosted technical events, this conference will be held in Birmingham, AL to discuss best practices, experiences around equipment and processes, and more. Take a moment to visit Nationwide Boiler and ADCO at booth #208.



03

Power-Gen Asia

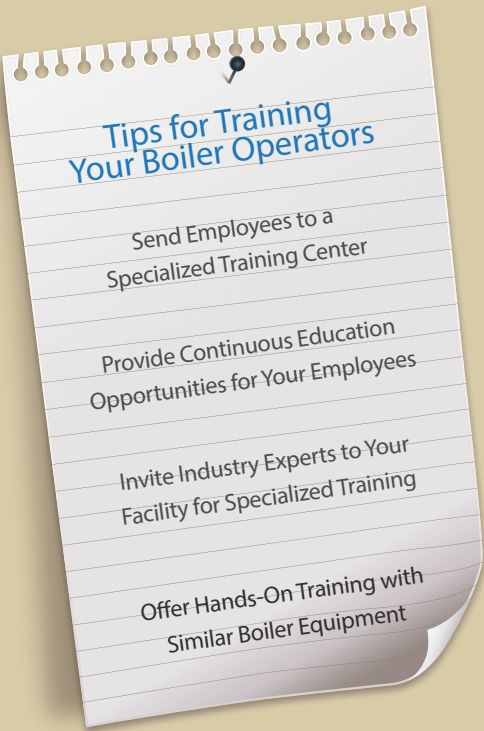
Being held in Kuala Lumpur, Malaysia, Power-Gen Asia has served as a premier forum for the power generation industry for more than 25 years. Nationwide will be exhibiting with our representative Giantech Engineering along with other reputable manufacturers.



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Reliability & Maintenance Conf.

The IDCON Reliability & Maintenance Conference provides profound knowledge and experiences to processors who are striving to improve reliability, reduce production cost, and keep their team members safe. Located in Raleigh, NC, Nationwide will be exhibiting for the first time this year.



Benefits of a Trained Boiler Professional

On average and with normal wear and tear, the typical boiler will last around 30 years. However, the lifeline of a boiler can be increased significantly if it is properly maintained and operated. Therefore, it's not only necessary, but very valuable to have trained boiler professionals in the boiler room.

What your trained boiler professional should know:

- 01 How to properly run and perform maintenance on boilers, and know which practices to avoid.
- 02 How to inspect for wear and tear, recognize risk, and follow risk-mitigating guidelines.
- 03 How to monitor the combustion process and ensure emissions are in compliance with local regulations.
- 04 How to regulate water quality, perform blowdown operations, and maintain proper feedwater temperature.

Note: there are additional responsibilities that boiler operators must be aware of, some of which will vary based on the type of boiler system.

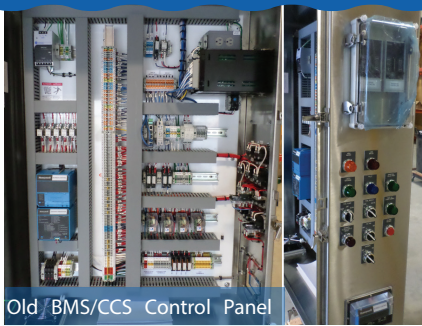


New and Improved Control Systems

Did you know that Pacific Combustion Engineering (PCE) was building and upgrading control panels for our fleet of rental boilers well before they became a part of Nationwide Boiler? If not, now you know!

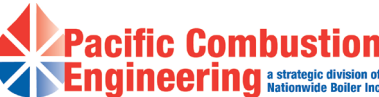
Since 2000, Nationwide Boiler utilized PCE to build panels for our new boilers and SCR systems, too. This choice was based on their experience, know-how, and quality of workmanship.

We are currently working on upgrading our entire fleet of rental boilers with PLC-based controls and touch screen capabilities. Most recently, we completed the conversion of our 110,000 lb/hr unit (did you read the front-page article?) from our old standard Siemens 353 push-button controller.



Another similar upgrade that was completed was for a brand new, unutilized panel originally built by PCE, that we will be installing on a used 80,000 lb/hr reconditioned boiler. The now PLC-based BMS is fully integrated with the CCS, and a PanelView HMI touch-screen controller was mounted on the side. This upgrade improves the troubleshooting process and provides ease of operation and understanding for users. A robust system with many operator benefits.

Check out these before (above) and after (left) shots to see the high quality of workmanship of Nationwide's controls division in action.



A Record Breaking Tournament

Nationwide Boiler's 39th Annual Charity Golf Tournament at the renowned Pebble Beach Golf Links was a



great success this year. We are excited to announce that we raised a record-breaking \$64,000, which was donated to Make-A-Wish® Greater Bay Area and the ABMA's Randy Rawson Scholarship Fund.

We would not have been able to break our previous record without the outpouring of generosity from everyone involved in this year's event, and for that we thank you!

We'd like to encourage you to join us next year to continue supporting two amazing organizations. Save the Date for a fun & rewarding event, May 6-7, 2020.

[Read More About This Year's Golf Tournament on the Nationwide Boiler Blog](#)

Training & Team-Building: The Foundation of Success

At Nationwide Boiler, we believe in creating a work environment where collaboration and cooperation between employees is the key to success.

Much too often, companies create a competitive work environment in which employees are not rewarded. Studies have shown that team building improves productivity, increases motivation, and encourages creativity as well as out-of-the-box problem solving among employees.

Recently, a group of our managers got together for a training session followed by a team building activity. The training focused on effective and various management styles, and encouraged implementation of open communication and collaboration between their team members.

After the seminar, managers were put to the test

with an escape room style activity, called the 'Diamond Heist'. As the name implies, the mission was to capture the diamond by working together to solve clues to move through multiple rooms. Safe to say it was a success, but we will let you guess whether each team completed the mission in time or not!

Nationwide Boiler encourages other companies to incorporate more team building events and activities to uplift the company's culture.



Rep Spotlight: Le Groupe Simoneau

Located in the greater Montreal area, Le Groupe Simoneau has been a Nationwide Boiler representative for nearly 10 years but has been manufacturing industrial and commercial boilers since 1984. In addition to low- and high-pressure steam boilers, Simoneau builds hot water boilers, biomass boilers, thermal fluid heaters, and boiler auxiliaries.

Serving customers worldwide, Simoneau has had great success utilizing Nationwide's

fleet of rental boilers to help support their customer base throughout Quebec, Canada, and beyond. Most recently, Nationwide and Simoneau worked together to successfully secure a 2 ½ year project at a large 978 MW Canadian electrical generating station. An 82,500 lb/hr trailer-mounted boiler with EconoStak economizer will be provided for a six-month on / six-month off operation throughout the duration of the rental.

Servicing customers worldwide would be near impossible without the support of our partner companies and representatives, which is why we truly value our relationship with Le Groupe Simoneau and all others who are a part of our team.



SIMONEAU

Inventory Spotlight



300 HP, 450 PSIG
Used Simoneau ULN High-Temperature Hot Water Boiler

700 HP, 175 PSIG
Used Transportable Steam Plant

800 HP, 450 PSIG
Used Simoneau ULN High-Temperature Hot Water Boilers

80,000 PPH, 250 PSIG
Used Nebraska Pkg. Watertube Boiler

75,000 PPH
750 PSIG / 750 F
New Babcock & Wilcox Pkg. Watertube Boiler

200,000 PPH
750 PSIG / 750 F
New Babcock & Wilcox Pkg. Watertube Boiler

Contact Tim McBride for a quick quote today:
tmcbride@nationwideboiler.com