

NATIONWIDE BOILER HOSTS AMMONIA-FREE CATASTAK-FT SCR SYSTEM OPEN HOUSE

More than fifty guests representing the food, refining, and district heating industries, including boiler service and equipment providers, attended Nationwide Boiler's Open House in Fremont, CA for the launch of the new Ammonia-Free CataStak™-FT selective catalytic reduction (SCR) system. Despite unfavorable weather conditions, guests gathered into Nationwide's shop facility to view the Ammonia-Free CataStak™-FT mounted on an 800 HP Cleaver-Brooks boiler, firing natural gas at full load conditions. The boiler easily demonstrated 1 ppm NOx emissions with only 0.25 ppm slip.

The innovative Ammonia-Free CataStak™-FT uses a 32% urea solution, commercially called diesel exhaust fluid (DEF). This eliminates the need for end-users to store or handle ammonia, typically requiring a HAZMAT safety program (if stored in volumes exceeding five-hundred pounds).

The system utilizes the Combustion Components Associates, Inc. (CCA) patented TRIM-NOx™ urea injection system, a proven technology with over one-hundred successful installations.

The TRIM-NOx™ urea injection system is comprised of three primary components: a tank, PLC control panel and two injectors. Precise amounts of urea are injected directly into the exhaust gas of the boiler where the urea decomposes to ammonia (NH₃) and reacts with oxides of NOx across catalyst, located downstream of the injection points. The conversion of NOx results in the formation of elemental nitrogen and water, reducing NOx emission levels greater than 90%.

Engineers from both Nationwide Boiler and CCA were in attendance to answer questions relating to the operational and technical characteristics of the SCR system. In addition, a brief presentation of the new technology was presented by Nationwide Executive

Vice President, Larry Day, highlighting the safety advantages, emission reduction capabilities and energy efficiency savings that the product has to offer. "We are proud that we can offer a product that not only provides optimal NOx emission control and energy savings, but one that also provides end-users with a low cost SCR option without the use of ammonia."

If you are searching for a solution that provides optimum emission reductions and increased energy efficiency, contact a Nationwide Sales Engineer to discuss the benefits of an Ammonia-free CataStak™ SCR system for your facility.



Top: Guests in attendance at Nationwide Boiler's Ammonia-Free CataStak-FT Open House, in Fremont, CA.

Left: Ammonia-Free CataStak-FT on a 800 HP Cleaver-Brooks natural gas fired boiler. The unit successfully achieved 1 ppm NOx emissions at Nationwide Boiler's test facility.

JUST HAVE FUN



Jeff Shallcross, President

"You can learn in one round whether you really want to play golf or do business with that person again..."

As one of the most scenic and recognized golf courses in the world, Pebble Beach is also one of the toughest and can be the most trying course to even the most seasoned golfer. A number of holes are prone to inclement weather and gusty winds with long fairways and strategically placed hazards. For many these challenges can bring frustration and disappointment, although after speaking with many of the golfers from this year's Charity Golf Tournament at Pebble Beach, everyone seemed to just have fun, no matter what trials and tribulations they faced that day.

For example, triple digit scores were quickly overlooked, lost balls in the Pacific Ocean were easily forgotten, and three stroke putts were all faint memories. The pure pleasure and glee golfers shared from the mere fact that they were fortunate enough to be playing on one of the most prestigious golf courses in the world made all hardships of the day disappear.

For those who have a hard time having fun while participating in golf, I recommend the readings of Harvey Penick, America's best-

loved teacher of the game of golf. Penick discusses the concept of "having fun" in his fourth book of golf instruction, *The Game for a Lifetime*. One of his anecdotes reminds us to "Take pleasure in the game and in your companions and your surroundings... enjoy yourself fully while you are inside the boundaries of the golf course, a world of its own...golf is a game for everyone, not just for the talented few...you can learn in one round whether you really want to play golf or do business with that person again..."

In golf and in business I try my best to always remind myself to just have fun. Having fun will bring you happiness, clear your mind and keep you focused, and will make it easier to wake up the next day and do it all over again! Plus, if you can't have fun doing something, why invest so much of your valued time doing it?

This summer I plan to play a lot of golf and have a lot of fun doing it. I hope you have an enjoyable and "fun" summer as well.

WELCOME NEW EMPLOYEE

Jose Luis Santiago
Painter's Helper

INFORMATION LINE

THERMAL ENERGY INC. ADDED TO GROWING INTERNATIONAL REP LIST

Nationwide Boiler continues to expand internationally with the signing of its newest representative, Thermal Energy Services Inc. (TES), located in Alberta, Canada. Established in 2003, TES provides industrial maintenance, construction and fabrication services for steam and power facilities and has extensive project experience in the oil, gas, power and pulp and paper industries.

"We are excited to have Thermal Energy Services join our team," states Michael Medina, Rental Manager of Nationwide Boiler. "We see a lot of new opportunities in Northern Alberta's oil sands where investment in green technology and the demand for our products and services are increasing every year."

TES has a portfolio of many diversified projects for customers that include Husky Energy Inc., Nexen, DMI, Petro Bank Energy &

Resources Ltd., and Verdant Energy. The company recently opened a new office in Calgary, Alberta to expand their presence in Alberta's growing oil and gas industry.



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WINTER TORMENT RELIEVED WITH NATIONWIDE BOILER RENTAL UNIT

Travelers wanting to escape harsh winter conditions often times visit areas such as New Mexico where winter temperatures are typically over 80°F. However, like so many other cities that experienced unseasonable weather patterns earlier this year, Jal, NM was unable to stay immune from one of the coldest winters on record. The city recorded freezing temperatures of -4°F for the month of February.

Southern Union Gas Services (SUG), a division of Southern Union Company, operates a processing plant located in Jal that produces approximately 300 MMcf/d of natural gas which supplies three pipeline systems in New Mexico. The plant supplies natural gas and natural gas liquids to power generating companies, utilities, energy marketers and industrial users located primarily in the Southwestern U.S.

When temperatures at the Jal plant dropped below freezing, SUG's boiler experienced critical failure as a result of freeze damage to the boiler controls. Bailey Boiler Works (Lubbock, TX) was contacted to assess the damage and repair work. They determined the equipment could not be easily repaired.

In need of an immediate boiler solution, SUG contacted Nationwide Boiler and rented a 60,000 lb/hr trailer-mounted boiler. In less than a week Nationwide had the boiler on-site (shipped from Houston, TX, one of Nationwide's strategic

storage locations), Bailey Boiler Works provided the installation and hook-up of the unit, and Nationwide Boiler performed the start-up and provided technical training and support to SUG boiler operators.



Reconditioned 70,000 lb/hr skid-mounted Nebraska "D" type boiler sold to SUG as a replacement boiler.

After a month into the rental boiler project, Bailey Boiler Works worked with Nationwide to offer the customer a more permanent solution, the purchase of a reconditioned boiler to replace the rental unit on rent. Nationwide offered a 70,000 lb/hr skid-mounted Nebraska "D" type packaged watertube boiler (30 ppm NOx).

If it were not for companies such as Nationwide Boiler and Bailey Boiler Works who have the experience, professional customer support, and immediate equipment availability to fulfill the boiler needs during an emergency situation, many companies would suffer catastrophic losses. Nationwide and Bailey Boiler Works quickly helped SUG resume plant operations with little disruptions and SUG

was able to provide its customers the natural gas they relied on for their own plant requirements.

Be prepared for any situation and check out the Nationwide Boiler Blog on freeze protection or visit www.nationwide-boiler.com to download the Nationwide Boiler publication entitled, *Guidelines for Preparing for a Temporary Steam Plant*. Be prepared to handle any tough emergency solution with Nationwide Boiler and call us today to discuss a contingency plan solution for your plant/facility.

EVENT LINE

NATIONWIDE TO EXHIBIT AT POWER-GEN SHOWS

Nationwide Boiler will be attending two Power-Gen conventions and exhibitions this year, focused on the power generation industry: Power-Gen Asia, September 27-29, at the Kuala Lumpur Convention Center in Malaysia (Booth 1C9) and Power-Gen International, December 13-15, at the Las Vegas Convention Center (Booth 1216). Email Nationwide Boiler to obtain a complimentary exhibit hall pass: info@nationwideboiler.com.



CHARITY GOLF TOURNAMENT CONTINUES HELPING THOSE IN NEED

More than sixty guests traveled to Pebble Beach this year to attend Nationwide Boiler's 31st annual Charity Golf Tournament benefitting children and adults with disabilities through Via Services, based in Santa Clara, CA. The final donation amount totaled nearly \$39,000 thanks to the generosity of tournament participants, hole/cart sponsors and individual donors.

Golfers were delighted to experience exceptional weather conditions during the two days of golf and were greeted with sun drenched skies each morning.



Many returned to the clubhouse weary and sunburned after a perfect day for 18 holes of golf. Practice golf was played at Bayonet Black Horse Golf Course in Seaside and tournament play followed at the famous Pebble Beach Golf Links off the Monterey coast. Tournament winners included Bob Stemen, Darren Osterland, and Tom Miller for the Callaway flight and Larry Day, Robert St. Denis, and Gordon Judd for the Handicap

flight. Justin Hoose took home the trophy for low gross.

Many have commented that playing the Pebble Beach Golf Links is a "once in a lifetime event," so be sure to mark your calendar for next year's tournament, May 9-10, 2012. Invitations will be sent out early next year and registrations are taken on a first-come basis. Accommodations and banquet events will take place at the Lodge at Pebble Beach. Everyone at Nationwide Boiler hopes that you will join us next year for what is sure to be another successful event.

Thank You 2011 Hole & Cart Sponsors

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