

Riverside's Cook Street Booster Pump Station

Last June the City of Riverside began working on a new project that required three vertical turbine pumps for a booster station pumping potable water throughout the eastern section of the city. To meet the City of Riverside's requirements, three NPC J12XHC – two stage; 2,200 GPM pumps with 100 HP motors were recommended and approved for the job. From the initial stages of pump selection and specification, to the final stages of installation and start-up, the process went smoothly. The on-time pump installation was in

September of 2015 at Riverside's Cook Street Booster Pump Station. Operation permits delayed the start-up until May 2016, but there were no other issues and the pumps are running efficiently. Thanks to the team effort of NPC's Sales, Engineering, Manufacturing and Shipping departments, the City of Riverside, SCW Contractors, and our NPC representative, Environmental Water Solutions for the success of this project.

Pictured below are photos of the pump installation.



Product News

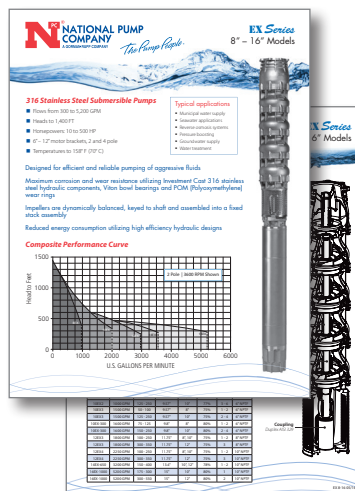
New EX Series Submersible Pumps For Maximum Corrosion and Wear Resistance



These heavy duty 8" - 16" diameter submersible pumps are made of Investment Cast 316 Stainless Steel hydraulic components. Typical applications include municipal water, seawater, reverse osmosis systems, pressure boosting, ground water supply and water treatment. These pumps are more efficient and durable than Stamped Stainless Steel designs.

- ▶ Flows from 300 to 5,200 GPM
- ▶ Heads to 1400 Ft
- ▶ Horsepowers 10 to 500 HP
- ▶ 6 - 12 inch motor brackets, 2 and 4 pole
- ▶ Temperatures to 158° F (70° C)

Contact your nearest branch or sales manager for more information.



National Pump will have these on display at WEFTEC, Gorman-Rupp booth #3429

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From the Desk of... Allen Hobradsch



Laser Focused

With the first half of the year behind us, our focus for the second half of 2016 will be to enhance our customer experience with operational improvements throughout our organization. This begins with: performing efficient and accurate quotations, being responsive to customer requested lead times, engineering, production and testing excellence.

We continue to see both headwinds and opportunities. Commodity prices continue to be soft which makes capital expenditures for companies challenging. As a result, National Pump must be laser focused on new opportunities as the needs of our customers are changing. This means providing our customers with the products they need, when they need it. We are evaluating the "new normal" needs in our organization and adjusting our staff and product requirements accordingly.

We are excited about our product development initiatives which include higher efficient pump models in compliance with the new Department of Energy's efficiency regulations. We are also developing higher efficiency stainless steel impeller hydraulics for the water and industrial markets.

As always, we want to thank our customers for their loyalty and support, now and in the future.

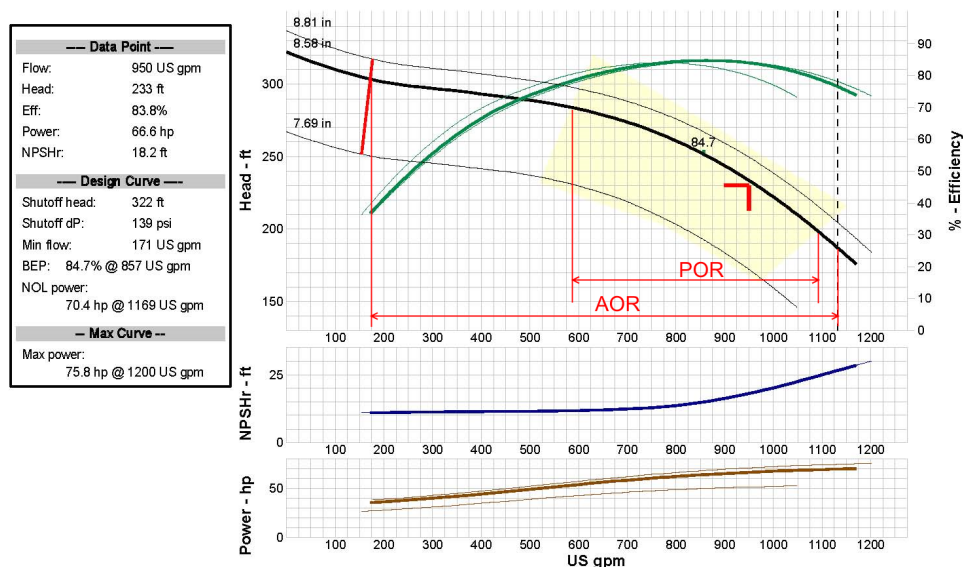
Technical News from Engineering Understanding Preferred & Allowable Operating Regions

The location the pump is operating on the curve can play a critical role in design and evaluation of the pump. Hydraulic Institute (HI) standards recommend or define values based on which region the pump is operating in. The Rotodynamic (Centrifugal and Vertical) Pumps – Guideline for Allowable Operating Region (ANSI/HI 9.6.3-2012) defines two operating regions, the Preferred (POR) and the Allowable (AOR). The POR is a narrow region within the broader AOR where the pump exhibits the best efficiency and reliability. Operating beyond the AOR is not recommended.

The POR on National Pump Company curves is denoted by the selection window (yellow shaded region) in PumpFLO. Pump

models which come up as options when using the Design Point Search are always within the POR. When operating within the POR, the pump requires a smaller NPSH margin (reference ANSI/HI 9.6.1-2012) and will have the lowest vibration readings. This region is typically between 70 and 120% of the best efficiency point (BEP).

The broader AOR on National Pump Company curves extends from the minimum flow to halfway between the end of the POR and end of the curve. Pump models must be manually selected for operation in this region. Along with requiring greater NPSH margin, the allowable vibration limits specified by HI are increased by 30% (reference ANSI/HI 9.6.4-2009a).



Note: The dashed line showing the upper range of the AOR can be added to curves upon request.

Product News Low NPSH 1st Stage

National Pump Company is continuing to release additional low NPSH designs. Currently there are three bowl models available; L10, K20 and H24. Pumps which have the low NPSH 1st stage are denoted with "S" at the end of the model description, for example L10HC-S and K20LC-S. Using low NPSH 1st stage reduces the NPSHr of the pump, allowing for shorter barrel lengths which is critical in the Oil & Gas markets. These designs have suction specific speeds of about 11,000 US units.

Currently Available

L10LC-S*,	K20LC-S*,	H24LC-S*
L10MC-S*,	K20MC-S*,	H24MC-S
L10HC-S,	K20HC-S,	



Low NPSH 1st Stage Bowl Designs Coming Soon

Pattern work for the H14 and M14 is in process with an early 2017 completion. The H16 and M12 will be available mid 2017

In the Spotlight

John Reed

California Branch Manager

John is the NPC California Branch Manager and he has held this position since 1995. The California branch is successful due to John's core belief that the customer is their number one priority and the customer must be treated with utmost importance. He has passed his philosophy along to the California team of 14 employees. John strongly believes that the customer you have on the phone or in your office must know that they are the only customer, your priority, no matter how large or small their order is or if they are a regular customer or someone who only purchases occasionally. He believes in treating each customer with honesty and respect and building that relationship so that you not only have a customer for life, but also a friend for life. The California branch serves primarily the agricultural market, but with John's expertise, the industrial, municipal and export markets are growing. John enjoys all aspects of the pump industry, from the original design of the pump, to manufacturing, to sales, installation, and implementation. He believes that all of these areas are crucial for the finished product to run smoothly and efficiently for many years to come.

In his free time John and his wife, Jane enjoy traveling, landscaping and building projects. He has taken on a new hobby, working on improving his nephew's 40 acre alpaca ranch.

Let's congratulate John on his 21 years of service!



John Reed accepting his 20 Year Service Plaque from Steve Anglin, VP Operations

NPC Staff Announcements

The Pump People[®]

Tony Alley has joined NPC as Territory Sales Manager to support and develop customer partnerships in the municipal well, agricultural, industrial and residential markets, within the Houston area, southern Louisiana, southern Mississippi and central region. Tony has 20 years of experience servicing the municipal and industrial markets. We welcome Tony to NPC and we know he will be a great asset in developing these markets across NPC.



Grant Harlow has been promoted to Director of Systems/Data Integration. He began his career in 2011 with NPC as Customer Service Manager at the Olive Branch, MS location. Grant has a Bachelor's Degree in Mechanical Engineering and has extensive experience in product development, engineering, electrical programming development and manufacturing. In his new role, he will be responsible for developing a fully operational MRP/ERP business system, integrating bar codes, controlling inventory, tracking job labor and production processes.



SEE US AT THESE TRADESHOWS:

Pump Symposium
Sept. 12-15 | Houston, TX

GAGwP
Sept. 16-17 | Savannah, GA

WEFTEC
Sept. 26 - 28 | New Orleans, LA

MINExpo
Sept. 26-28 | Las Vegas, NV



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