

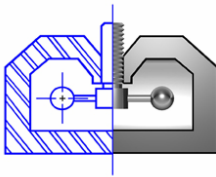
*If I don't dream, who
will do it for me?*

John L. Biach
1905-1973

Nuclear Industry Orders

Expanding Horizons

Biach Industries, Inc. Quarterly Newsletter Vol. 7 No.3—April 2006



Exelon's LaSalle station ordered Biach's Work Station – an all inclusive portable crane, work cabinet and dedicated tools – for servicing their RPV stud tensioners. The site also plans to use it for other plant maintenance work.



Flow Serve (through Astute Technology) ordered another of the specialized “coupling tools” that hydraulically removes or installs coolant pump motor half couplings to the shaft.

Hope Creek (PSE&G) and *Oconee* (Duke Power) placed orders for Biach's SEMS III for taking RPV stud elongation readings.



Oconee also ordered three of Biach's ESDTs (electric stud drive tool) for removal & installation of RPV studs.

FP&L ordered complete Spare Parts Boxes for RPV, RCP and Steam Generator stud tensioning systems used at both St. Lucie and Turkey Point. Biach offers boxes of critical “one hour changeout” spares for purchase or long term rental.

From Our Archives



Other Industry News:

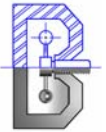
Chevron (Richmond, CA) ordered 4 additional custom stud tensioners having 300,000# capacity for vertical or horizontal use on 2.25” dia. studs.

Aero Systems ordered a custom stud tensioning system for 2”-16 tpi studs.

Invista returned some of their stud tensioners for refurbishment by Biach in preparation of shutdown use.



photo depicts testing being performed on refurbished equipment



BIACH INDUSTRIES, INC.
75 CHESTNUT STREET
CRANFORD, NJ 07016

Biach Plans for its 9th Annual Owners Group Workshop

conference set for June 7th-9th 2006. Preparations are underway for this 2 ½ day workshop of equipment demonstrations and technical discussions. Make your reservation now!



FIELD SERVICE NEWS.....

Biach Tech Reps recently performed equipment service at:

- | | | |
|--------------|-----------|--------------|
| *Braidwood | *Clinton | *Quad Cities |
| *Hope Creek | *Fermi | *St. Lucie |
| *Wolf Creek | *Hatch | *North Anna |
| *Susquehanna | *Seabrook | |

Biach Tech Reps supported or are preparing to support outages at:

- | | | |
|---------------|-------------|-----------------|
| *Browns Ferry | *Clinton | *Calvert Cliffs |
| *Quad Cities | *Hatch | *Diablo Canyon |
| *San Onofre | *Fermi | *Hope Creek |
| *Indian Pt. 2 | *Surry | *Susquehanna |
| *Turkey Point | *St. Lucie | *Sequoyah |
| *LaSalle | *North Anna | |

Complex Problems > Creative Solutions

A Historical Column by Joe Orban, VP Emeritus, Engineering

Hydraulic Bolts used to clamp hub flanges to propeller shaft

Problem: Standard torquing techniques do not ensure equal loading of bolts used to secure variable pitch propeller blade hubs to ship's propeller shaft. The bolts will often work loose, requiring dangerous at-sea re-torquing.

Solution: Hydraulic Bolts placed at intervals around the hub are threaded into the flange holes. They are then simultaneously pressurized through a common manifold. The high pressure forces each cylinder against the flange clamping it tightly. Special bolts having hex lugs are then threaded into the remaining holes and torqued. Finally, the hydraulic bolts are depressurized, removed and replaced with the special bolts, or capped and left in place. The idea is to clamp the flanges together with much more force than needed, and then install the final bolts with precisely the correct torque.

