

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

John L. Biach  
1905-1973



**Expanding  
Horizons**

Biach Industries, Inc. Quarterly Newsletter Vol. 7 No.1 – August 2005

## Nuclear Industry Orders

*FP&L – Turkey Point:* special storage containers for large stud tensioners and a pumping unit.

*Callaway and North Anna:* hoist and tractor control handles.

*Hope Creek, Callaway and VC Summer:* Jetter style EPN Consoles.

*Wolf Creek:* conversion to hydraulic piston return, new console and control handles.

## Other Industry Orders

*Boeing:* a custom stud tensioner for a space shuttle application.

*Methanol Holdings Ltd:* pipe crimping tool and special jaw sets.

*Conoco Philips:* jaw sets for its crimping tool.

*U.S. Navy:* two custom stud tensioners for a submarine project.

## Biach's 8<sup>th</sup> Annual Owners Group Workshop and 50<sup>th</sup> Anniversary Celebration

This year's workshop was a HUGE success! A total of 25 attendees from 16 utilities plus representatives from Westinghouse, Master-Lee and GE Nuclear participated in technical discussions and hands-on equipment demonstrations.

To celebrate our 50<sup>th</sup> anniversary, a full day in NYC included a Circle Line cruise around Manhattan, dinner at Sardi's Restaurant and then the new Broadway play "Dirty Rotten Scoundrels" starring John Lithgow.

During the equipment demo, the wives enjoyed a shopping trip to Peddlers Village in Lahaska, PA. Later that evening, awards and prizes were presented during a summer style cookout.



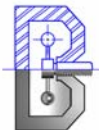
Dave Jensen of Biach Industries demonstrates our Electric Stud Drive Tool at this year's workshop.



25 attendees participated in the various discussion sessions.

## From Our Archives





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

***Biach Introduces***

***“Web Based Collaborative Services”***

Just-in-time and Pre-outage briefing instant refresher training via web conferencing with Biach experts. Classroom administration of full operator training packages via web conferencing.

***Coming this Fall:*** a Biach web conference on technical issues of bolting critical joints as part of a series of engineering conferences for sharing Biach’s knowledge and experience.

**FIELD SERVICE NEWS.....**

Biach Tech Reps have been very busy over the past six months performing Equipment Service at:

- |              |                 |          |            |
|--------------|-----------------|----------|------------|
| *Catawba     | *Clinton        | *LaSalle | *VC Summer |
| *Perry       | *Shearon Harris | *Vogtle  | *Pilgrim   |
| *Susquehanna |                 |          |            |

Providing Outage Support at:

- |              |                 |             |            |
|--------------|-----------------|-------------|------------|
| *Braidwood   | *Browns Ferry   | *Byron      | *Columbia  |
| *Cooper      | *Calvert Cliffs | *Hatch      | *Perry     |
| *LaSalle     | *Comanche Peak  | *Wolf Creek | *Nine Mile |
| *Salem       | *Indian Point 3 | *Pilgrim    | *St. Lucie |
| *Vogtle      | *Susquehanna    | *Seabrook   | *Watts Bar |
| *Quad Cities | *Turkey Point   | *Sequoyah   |            |

Refurb Projects this Summer and Fall:

- |             |             |             |          |
|-------------|-------------|-------------|----------|
| *Clinton    | *River Bend | *Dresden    | *LaSalle |
| *Grand Gulf | *North Anna | *San Onofre |          |

**Complex Problems > Creative Solutions**

**A Historical Column by Joe Orban, VP Emeritus, Engineering**

**Subject:** Naval Nuclear, Submarine Fuel Core Bolting

**Problem:** This project required the simultaneous tensioning of two different stud sizes with differing load requirements. In addition, the envelope had severe physical restrictions.

**Solution:** Utilizing high strength Maraging steel, Biach designed a complex support ring to incorporate the two different sizes of custom tensioners with integral high pressure hydraulic connections. The tensioner hydraulic areas were specifically sized to permit simultaneous pressurization from a single pump. An elongation measuring system was also incorporated to verify stud loading.

**Result:** This complex system produced very favorable results on this critical shipboard application.