Eric P. Klotzbach

eklotzbach@energysteel.com
Who We Are

Energy Steel is an exclusively nuclear supplier providing obsolescence solutions and custom fabricated components

• Over 30 years experience providing quality products exclusively to the Nuclear Industry.

• Management has over 55 years of nuclear industry experience

• Outstanding Safety record – 1 incident over the last two years.

• Successfully approved by U.S. Nuclear Utilities through the NUPIC audit process. Successful & participating member of NIAC.

• Rigorous Quality Control Program requiring approval of all vendors completing safety related work through the audit process.
<table>
<thead>
<tr>
<th>E</th>
<th>N</th>
<th>E</th>
<th>R</th>
<th>G</th>
<th>“Y”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exceptionalism</td>
<td>Nuclear Mindset</td>
<td>Engagement</td>
<td>Responsibility</td>
<td>Generosity</td>
<td>“Yesitude”</td>
</tr>
<tr>
<td>We have stellar CHARACTER and INTEGRITY. We treat others with fairness and dignity. Our interactions are RESPECTFUL, HELPFUL, and PROFESSIONAL.</td>
<td>We foster a Safety Conscious Work Environment. We raise issues and are ACCOUNTABLE for doing what is right. We actively seek opportunities to improve. We embrace and implement change.</td>
<td>We are PASSIONATE about serving our customers and achieving business success. We take INITIATIVE to COMMUNICATE, LISTEN and LEARN.</td>
<td>We DELIVER WHAT WE PROMISE. We OWN our communications, our products, our internal processes and our INDIVIDUAL PERFORMANCE.</td>
<td>We value our TEAMMATES and expect OPTIMAL EFFORT from each other every day. We freely give of our time, effort, resources and genius to helping others.</td>
<td>We MAKE A DIFFERENCE. We are RESULTS oriented with a decided “CAN DO” approach to problems with little tolerance for failure. We LEAN FORWARD into problems and do not shy from challenges.</td>
</tr>
</tbody>
</table>
Who We Are

• **Project Management Initiative.**
  • Coordinates and defines the process for major quotes and projects including quality, engineering and projects
  • Each department has clearly stated responsibilities
  • Focused on clear and concise communication with the customer by the project manager regarding schedule and time of delivery
  • Single point communication

• **Quick Response Office Cell (QROC)**
  • Inside team focused on quick and accurate response to customers’ needs.
  • Since inception the time to quote is an average of 4.87 days.
  • On Time Delivery of 92%
SAFETY & QUALITY

At Energy Steel safety and quality are of the utmost importance. We have formalized the following to aid in keeping our excellent track record in place.

• Energy Steel Human Performance Program

• Safety Conscious Work Environment (SCWE) Policy

• Rigorous Industrial Safety Program
Graham Corporation's earliest roots extend back to 1936 when Harold M. Graham first incorporated Graham Manufacturing Company. While the company's headquarters have remained in Batavia, New York since 1942, its reputation has extended around the globe.
Successful supply of Main Propulsion Condensers and vacuum systems for US Navy Nuclear Aircraft Carriers and Submarines.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>N-2994 – Construction of class 1, 2, 3, &amp; MC vessels, class 1, 2, &amp; 3 valves and piping, Class 2 &amp; 3 pumps, Class 2 &amp; 3 storage tanks, Class CS “Core supports”, Class 1, 2, &amp; 3 shop assembly.</td>
</tr>
<tr>
<td>NPT</td>
<td>N-2928 – Class 1, 2, 3, CS, MC, TC, &amp; SC fab w/o design responsibility, fab w/o design responsibility for class 1, 2, and 3, CS &amp; MC appurtenances, Class 1, 2, and 3 &amp; MC supports.</td>
</tr>
<tr>
<td>NS</td>
<td>N-3083 – Class 1, 2, 3 &amp; MC fabrication without design responsibility and with design responsibility for supports.</td>
</tr>
<tr>
<td>NA</td>
<td>N-3956 – Class 1, 2, &amp; 3 shop assembly</td>
</tr>
<tr>
<td>U</td>
<td>31,075 – Manufacture of pressure vessels</td>
</tr>
<tr>
<td>R</td>
<td>R-5604 – Metallic repairs and/or alterations</td>
</tr>
<tr>
<td>NR</td>
<td>NR-101 - Repair and replacement of class 1, 2, 3, and MC vessels; class 2 and 3 pumps, line valves, appurtenances; piping systems and supports; class 2 and 3 storage tanks and parts</td>
</tr>
</tbody>
</table>
Innovation

BLACKHAWK™ HYDRAULIC NUTS
FOR ASME SECTION III APPLICATIONS

INNOVATIVE TECHNOLOGY FOR CRITICAL BOLTED ASSEMBLIES

✓ Saves time, reduces manpower/hours, dose exposure
✓ Replaces existing hex nuts and slashes bolting time up to 80% and increases worker safety
✓ 100% Simultaneous tensioning and even gasket loading
✓ Eliminates galling the nut, stud, or flange
INTEGRA BlackHawk™ Hydraulic Nuts

Energy Steel Scope:
Take a Proven Design and give it Nuclear Pedigree

- Provide Engineering Analysis to support equivalent use in a nuclear environment by verifying the critical characteristics (e.g. Geometry, Forces, Stresses, Chemical composition)
- Ensure Nuclear Code compliance (ASME)
- Maintain Quality requirements and controls (NQA-1, 10 CFR 50 Appendix B, ANSI N45.2)
- Guarantee material traceability to maintain nuclear standards
- Manufacture the nuclear-qualified BlackHawk™ with Nuclear Quality Standards
- Provide customer support and nuclear technical assistance
- Maintain reporting channels with the Nuclear Regulatory Agencies to support licensing and production requirements
Innovation

From Ideas-to-Implementation

INNOVATIVE TECHNOLOGY FOR CRITICAL BOLTED ASSEMBLIES

A breakthrough technology that drastically speeds up turnaround maintenance on critical equipment. Installed on applications throughout the nuclear industry, such as Reactor Vessels and Heat Exchangers, breakout of large, high-pressure flanges can be slashed to less than 2 hours, using half the manpower.

By providing the highest level of Certainty of Outcome, BlackHawk Nuts enable you to predictably shorten the critical path schedule for the total turnaround project.

- Saves time, reduces manpower/hours, dose exposure, and increases worker safety
- Replaces existing hex nuts and slashes bolting time up to 80% and increases worker safety
- 100% Simultaneous tensioning and even gasket loading
INTEGRA BlackHawk™ Hydraulic Nuts

- Replacement for standard hex nuts on pressure vessels, pumps, etc.
- Eliminates the need for torque wrenches, cumbersome hydraulic tensioners, etc.
- Provides accurate loading without the torsional stresses or risk of galling threaded components.
Bolting Method Accuracy

Accuracy

- Hand and Hammer
- Impact Wrench
- Hydraulic Torque Wrench
- Hydraulic Tensioner
- BlackHawk Hydraulic Nut
Bolting Method Time

Disassembly & Reassembly
24 - 2.75" Studs

Time (hours)

- Without stud repair
- Hydraulic Torque Wrench
- Hydraulic Tensioner
- BlackHawk Hydraulic Nut
How it Works
Hydraulic Nut Benefits

• Maintenance and Operations
  ▶ Efficient
    - Evolutions are consistently completed 80% quicker than standard hydraulic tensioners.
    - Less tools required to complete the task.
    - Less manpower required to complete the task.
      • One to operate the locking collar, one to operate the pump.

• RP/HP and OSHA
  ▶ Safe
    - No pinch points that are commonly found with current technologies.
    - Reduced time to complete the task directly reduces Dose accumulated by plant personnel.
    - Less manpower to complete the task.
Energy Steel is committed to becoming the most recommended supplier to the nuclear community. In order to meet this goal, Energy Steel is embracing process improvements and nuclear safety culture. We continually monitor and implement improved processes and procedures that drive our level of service into a class of its own.

Goal: Become the recommended supplier for custom fabricated projects for the nuclear industry.
Contact Information:

Eric P. Klotzbach | Nuclear Sales Engineer
3123 John Conley Drive | Lapeer, MI 48446
585-993-0042 | Direct Phone

eklotzbach@energysteel.com

www.energysteel.com