



SCAFFOLD PROGRAM SOLUTIONS

for the

NUCLEAR POWER INDUSTRY

SCAFFOLD PROGRAM MANAGEMENT & PERMANENT
STRUCTURES FOR CONTINUOUS PROCESS IMPROVEMENT



TEAM ONE CIVIL MAINTENANCE

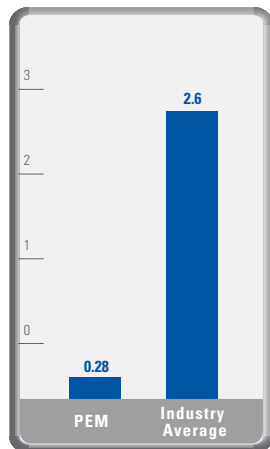


SAFETY & QUALITY ASSURANCE

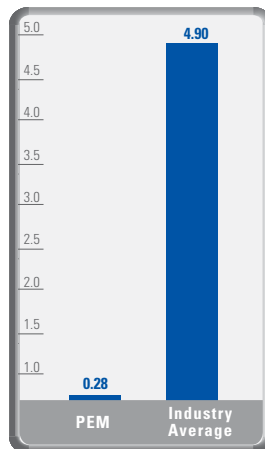
SAFETY FIRST. Power Equipment Maintenance's (PEM) Team One Civil Maintenance Division's number one core value is the safety of our employees, customers and the communities in which we work. Safety is at the center of every job we perform and emphasized at all levels of the organization. Our exceptional safety performance is a reflection of our attitudes, practices and overall commitment to working safely. We believe this performance drives customer retention and loyalty and is one of the most important criteria by which customers select their service providers.

OUR SAFETY RECORD CONSISTENTLY OUTPERFORMS INDUSTRY AVERAGES

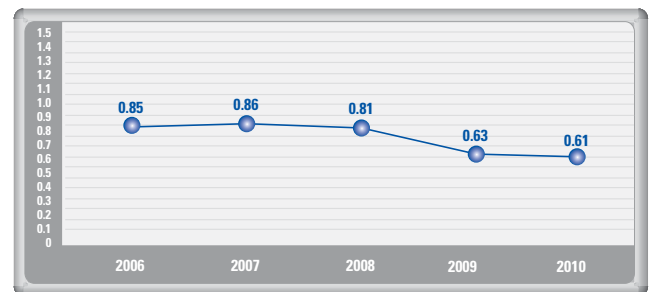
DAYS AWAY-RESTRICTED TRANSFER CASE RATE (DART)



TOTAL OSHA RECORDABLE INCIDENT RATE (RIR)



EXPERIENCE MODIFICATION RATE (EMR)



PEM is operating under its historical best EMR

PEM's 2010 DART and RIR far exceed industry safety standards

TRAINING & QUALIFICATION PROGRAM

PEM's Team One Civil Maintenance scaffold management training and qualification program provides tangible benefits to our commercial nuclear utility clients. The combination of our on-the-job (OTJ) and classroom-based training is designed to augment the existing skill sets of both core group and newly-hired employees. Our selective hiring criteria focus on bringing in qualified returnees with prior commercial nuclear power experience.

PEM-Team One's training, qualification & selection program client benefits:

- Selective criteria focuses on hiring qualified radiation workers with previous nuclear power plant experience
- Employees are pre-screened and cleared for unescorted access to protected areas
- Pre-screened employees are processed more quickly than non-screened employees, saving processing time and money
- Experienced employees work more efficiently, resulting in reduced radiation exposure
- Employees are formally qualified & trained (including hands-on mockup training) on the use of advanced Excel modular scaffold material
- Employees include ANSI 3.1-qualified personnel (many with greater than 10 years experience)
- Employees include those who have previously worked for Team One, in many cases returnees to that specific client facility/site
- Experienced employees relieve clients of qualification burdens
- Experienced employees can be immediately productive

"Whether our scaffolding needs are simple, or complicated due to extreme work areas and conditions, Team One works with us to provide the exact services and products that will work for us. And they do so consistently and professionally."

- Nuclear Electrical I&C Supervisor, Progress Energy Florida

SCAFFOLD PROGRAM MANAGEMENT

ENHANCING PLANT CONTINUOUS PROCESS IMPROVEMENT PROGRAMS (CPIP)

PEM-Team One's scaffold management program is implemented as part of our clients' site CPIP to provide a long-term solution that addresses industry and regulatory recommendations for use of permanent scaffold structures, while reducing overall operating costs.

Our program helps plants comply with the increased emphasis the industry is placing on implementation of well-structured scaffold management programs and dose reduction. These industry initiatives include:

- EPRI Scaffold Program Optimization and Dose Reduction Guide 1021102 (September 2010)
- INPO Plant Performance Index – Collective Radiation Exposure (CRE) component
- Code of Federal Regulations, 10CFR20, Section 20.1101(b), ALARA requirement
- U.S. NRC Inspection Module 71124.02, "Occupational ALARA Planning and Controls"

ELIMINATING REPETITIVE BUILDS

PEM-Team One's scaffold management program supports industry initiatives by reducing the overall number of scaffold structures built and making permanent those structures that are otherwise temporary. Our seismically-qualified components enable towers and shielding frames to remain installed in containment, during plant operations, and are accepted by industry regulators.

PEM-Team One designs, fabricates and installs seismically-qualified custom staging and specialty work packages for projects in safety-related areas such as the drywell, reactor building and containment. These custom packages

include high capacity lead shielding racks, suspended work platforms, freestanding scaffold towers and reactor vessel head inspection platforms. This approach significantly reduces repetitive high dose projects, worker exposure, labor costs and critical path time while improving dose savings for shielding evolutions.

Our scaffold program uses Excel Modular Scaffold, an ISO 9001:2000-certified scaffold staging system with a patented mechanism that allows for easy assembly and disassembly without the use of hand tools.

SYSTEMATIC TEAM APPROACH

PEM-Team One uses the following targeted approach to develop a custom scaffold management program for its clients:

1. **Consultation:** Bartlett meets with the client to gather information & identify specific needs for the project.
2. **Laser Scanning:** CSA performs detailed laser scanning to produce a 3-D model of the site structures and surrounding area, determining the placement and dimensions of the structures. The 3-D model is transferred to AutoCad.
3. **Siesmic Engineering:** AES finalizes the drawing and design including 50.59's and modification package and develops the parts list with specifications.

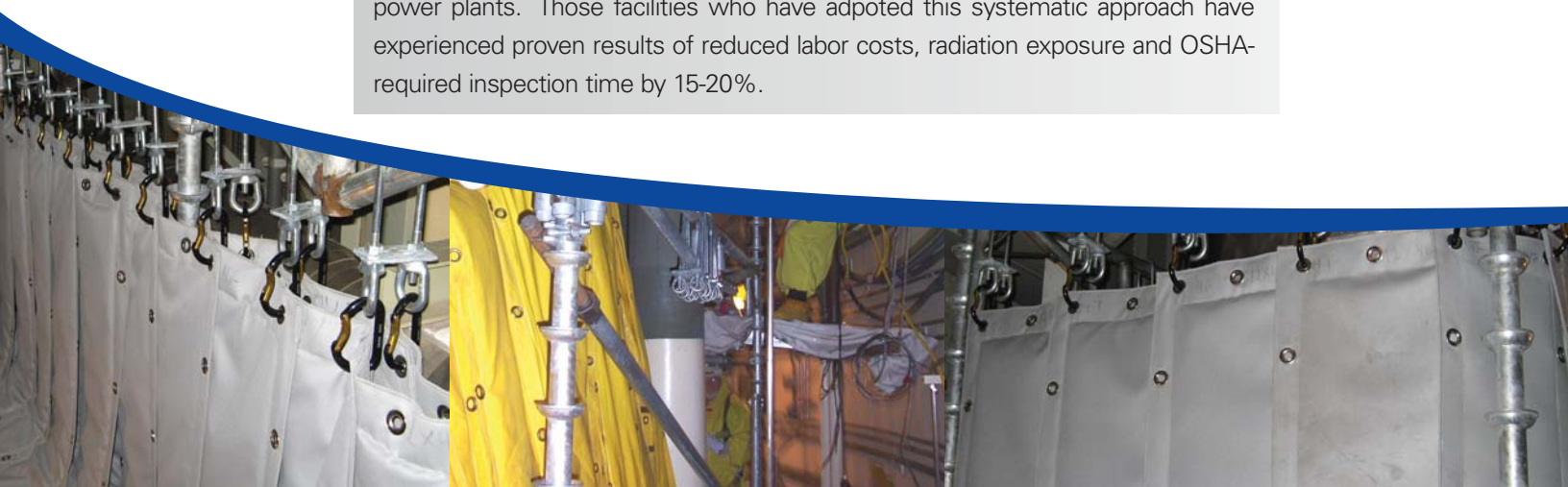
4. **Design, Fabrication & Testing:** Deltak designs, builds, tests, verifies and validates the Excel Scaffold material and/or structures. Mock-up training is provided as necessary.

5. **On-Site Engineering Oversight:** AES provides direct engineering oversight including onsite mockups once the material is shipped to the client location to assure smooth integration.

6. **Installation:** PEM-Team One or the plant's maintenance & modifications contractor installs the custom components and/or scaffold structure(s).

THE RESULTS

Excel scaffold is adaptable to virtually every scaffold configuration within nuclear power plants. Those facilities who have adpoted this systematic approach have experienced proven results of reduced labor costs, radiation exposure and OSHA-required inspection time by 15-20%.



SCAFFOLD PROJECT EXPERIENCE

Constellation Energy: Nine Mile Point Unit 1

PROJECT SCOPE: Team One provided permanent shielding for drywell recirculation piping, ISI nozzle inspection platforms and permanent shielding for BWRT tanks.

PROJECT HIGHLIGHTS:

- Permanent shielding for Recirculation piping resulted in ~90% reduction in dose in the immediate work area
- Installed without a single concrete expansions anchor or field weld
- BWRT shielding utilized innovative design allowing installation of large amounts of lead by hand (no rigging required)

Nebraska Public Power District: Cooper Nuclear Station

PROJECT SCOPE: Team One provided permanent shielding for drywell RRS and RWCU pipes.

PROJECT HIGHLIGHTS:

- Innovative shielding design around reactor vessel penetrations to allow penetration doors to feely open even with permanent shielding installed
- Shielding structure allows for construction of temporary scaffold off the permanent scaffold to easily build platforms for ISI nozzle inspections

PSEG Nuclear: Salem Nuclear Station Units 1&2

PROJECT SCOPE: Team One provided permanent shielding inside containment for RRS crossover loops, pressurizer spray piping, safety injection piping, RHR valves and the pressurizer vessel .

PROJECT HIGHLIGHTS:

- Installed with very few interferences and finished ahead of schedule
- Laser scanning used to minimize installation interferences
- Designed with minimal expansion anchors and/or field welds and utilized innovative bolted connections and bracing designs

Tennessee Valley Authority: Sequoyah Nuclear Station Units 1&2

PROJECT SCOPE: Team One provided permanent shielding framing inside containment for RCS crossover loops.

PROJECT HIGHLIGHTS:

- Installation went very well and finished on schedule
- Extendable trusses used for maximum installation flexibility
- Designed and installed without the benefit of laser scanning but still resulted in a mostly interference-free installation

Exelon Nuclear: Dresden Units 1&2 and LaSalle Units 1&2

PROJECT SCOPE: Team One provided permanent lead blanket storage, storage platforms, work platforms and hoist wells inside containment.

PROJECT HIGHLIGHTS:

- Installation went very well and finished ahead of schedule
- Innovative strap-down blanket storage designs allowed for the storage of blankets as near to the source as possible



THE PEM-TEAM ONE DIFFERENCE

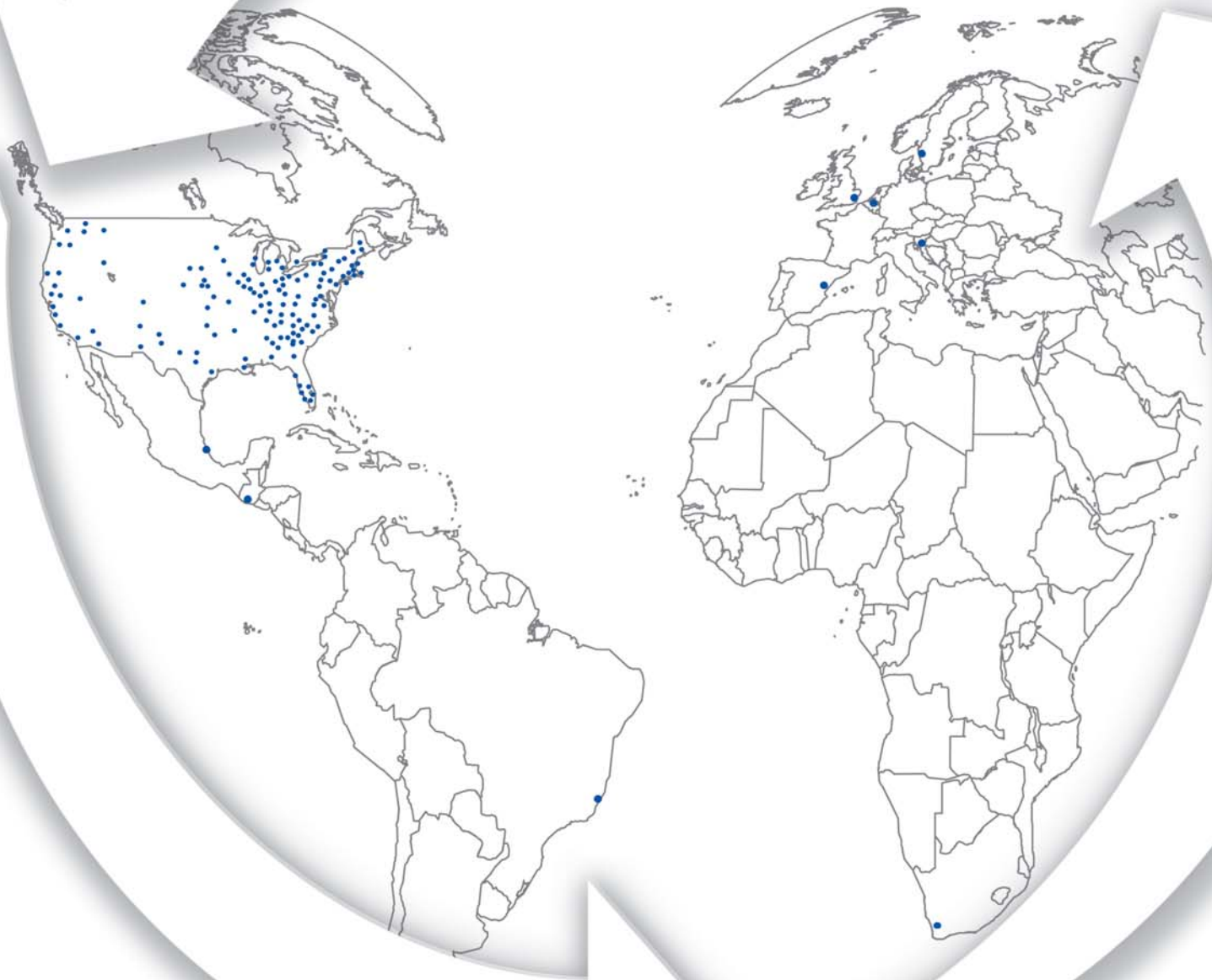
PEM-Team One sets itself apart by creating valuable, sustainable solutions that exceed our clients' expectations. Implementation of our scaffold management and permanent structure program can positively impact plant operations in several ways.

Reduce critical path time, outage duration, person-hours & OSHA-required inspection time	Excel scaffold is ISO 9000:2001 qualified and engineered for rigging and fall protection tie points
Reduce scaffold costs by eliminating repetitive builds in safety-related areas	Reduce installation time and cost versus the use of conventional structural steel framing
Increase safety by removal of free climbs during installation due to positive locking system which mitigates the use of hand tools during installation	Permanent structures minimize or eliminate future inspections as a result of Excel's modular patented design being seismically qualified
Assist plants in meeting industry-recommended guidelines issued by EPRI, INPO, NRC and Code of Regulations	Reduce radiation exposure by eliminating temporary scaffold and/or shielding installation and removal work
Through affiliate companies Bartlett, Excel, Deltak, AES & CSA, adjacent service offerings include engineering, custom fabrication, 3-D laser scanning and technical management augmentation	PEM-Team One Civil Maintenance is a wholly-owned subsidiary of BHI Energy, with financial stability and consistent year over year growth

PEM-TEAM ONE CIVIL MAINTENANCE SCAFFOLD MANAGEMENT SERVICE OFFERINGS



BHI ENERGY GLOBAL PROJECT LOCATIONS



PEM

Power Equipment Maintenance

TEAM ONE CIVIL MAINTENANCE



A BHI Energy Company

www.peminc.net

800.225.0385