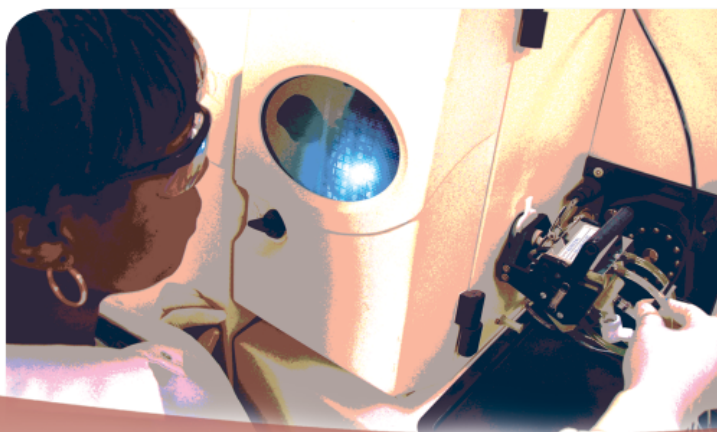


# technical services **that deliver solutions**



**experienced.**

knowledgeable. responsive.

**P**roviding management, operations and technical services to the government and industry demands experience, knowledge and responsiveness. Not many companies are willing to assume such an enormous undertaking. Fewer are even qualified to accept the challenge.





*Y-12 Highly Enriched Uranium Materials Facility (HEUMF)*

Overseeing the government's assets carries a high level of responsibility and accountability. Safe and secure performance that nets long-term results is always the goal. Anything less falls short.

One company has consistently shown its ability to rise to the occasion, willing to take on important production and performance commitments in disciplines that involve high-consequence operations.

**That company is Babcock & Wilcox  
Technical Services Group, Inc. (B&W TSG).**



*Y-12 laboratory testing and analysis*



*Nuclear weapons dismantlement at Pantex Plant*

## meeting rigorous requirements

**B** B&W TSG is a business recognized by government and industry for the specialized services it provides in environments that allow virtually no margin for error. Discipline to manage and conduct high-consequence operations is a demonstrated quality of B&W TSG. That is why B&W TSG has a strong presence across the nation at government-owned facilities. B&W TSG is meeting defense, energy and environmental demands by providing management, operational and technical services that are critical to the nation's future.

Managing customer assets as if they were its own is a trademark of the B&W TSG culture. Whether at the Pantex Plant, Y-12 National Security Complex or Los Alamos National Laboratory, just to name a few, the company manages these resources and operations safely, securely and efficiently.



*Computerized simulation at Los Alamos National Laboratory*



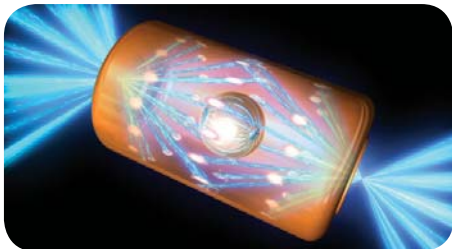
## government facility

# management

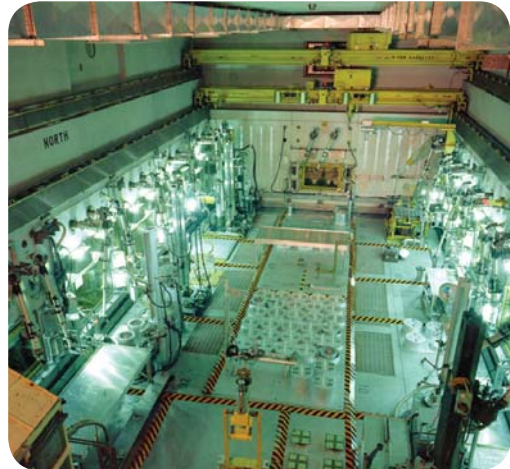
**B**W TSG provides a broad range of management, operational and technical services to the federal government and industry. Its primary customers include the U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA), Department of Defense and other nuclear and industrial partners. With exceptional leadership, extraordinary safety culture and dedicated employees, B&W TSG delivers products and solutions to nuclear operations and high-consequence manufacturing facilities.

Setting standards for the industry is part of B&W TSG's performance practices. Aligning specialized competencies with agreed-upon expectations, B&W TSG is successful in meeting critical customer objectives. Conducting operations and managing projects with clear vision and commitment have led to multiple achievements across the government arena where B&W TSG has a role.

When B&W TSG is awarded a government or industry contract it is accepted with great responsibility, each and every time, whether the company is the prime contractor or a member of a consortium.



*Lawrence Livermore National Laboratory - nuclear fusion experiment at National Ignition Facility*



*Idaho National Laboratory - Hot Fuels Examination Facility*

### B&W TSG Services

Provides management, operational and technical services

Specializes in services that allow virtually no margin for error

Employs exceptional leadership, extraordinary safety culture, and a dedicated and highly qualified workforce

## setting a standard

## of excellence

W

When achievements are made at the sites where B&W TSG has a presence, those accomplishments are the result of collective efforts on the part of dedicated and skilled people who share a common vision. Deliverable results meet the expectations of the customer and fulfill the goals B&W TSG has established for itself.



*Jack Case Center at Y-12*

Over the years, B&W TSG has earned recognition for excellence across government and industry entities alike. Alternative financing secured by the Y-12 National Security Complex (Y-12), the first of its kind at a DOE/NNSA facility, provided the opportunity for building the New Hope Center and the Jack Case Center, which consolidated organizations previously spread out across the vast complex. Y-12 also built the Highly Enriched Uranium Materials Facility (HEUMF), which replaced multiple aging structures. The HEUMF facility allows storage of high-enriched uranium in one central location for maximized security. In

addition, the Y-12 Pollution Prevention team has completed more than 600 pollution prevention projects, including the recycling of nearly 2 billion pounds of waste.

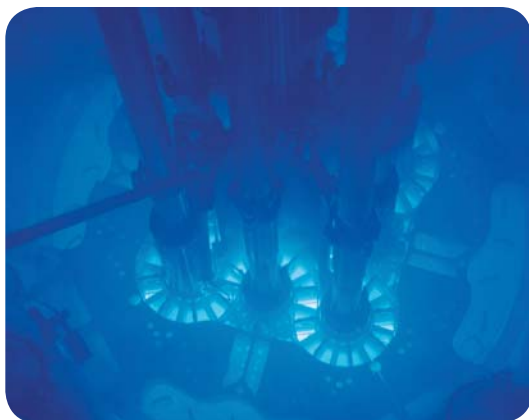
In 2009, B&W Pantex successfully completed an eight-year effort by the NNSA to refurbish B61 nuclear bombs for the United States' nuclear weapons stockpile. While working on the project, employees achieved the best safety performance in the NNSA complex. And, with an emphasis on environmental stewardship, B&W Pantex received three pollution prevention awards in 2009 from the NNSA. The site was also recognized with gold-level membership in the Clean Texas Program by the Texas Commission on Environmental Quality for the environmental work performed on site, and in 2010 was recognized by DOE's Voluntary Protection Program as a STAR site.



*Refurbishing B61 nuclear bomb at Pantex Plant*

At Los Alamos National Laboratory, the first “diamond-stamped” plutonium pit produced for the nuclear weapons stockpile since closing the Rocky Flats facility was delivered in June 2007. The laboratory has since delivered 17 W88 pits, meeting or exceeding annual targets, and reduced the cost of nonconformance by more than 70 percent. B&W TSG is involved in overall operations at Los Alamos – including nuclear, non-nuclear and business activities – in addition to being responsible for stockpile manufacturing and support; safeguards, security and emergency management and contractor assurance.

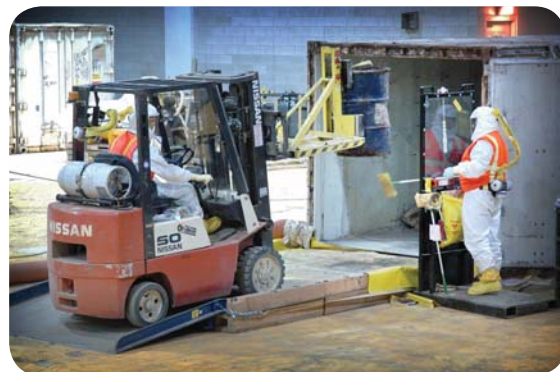
B&W TSG is joining three partner companies in managing environmental cleanup at the Savannah River Site (SRS) in Aiken, South Carolina, as part of Savannah River Remediation, LLC (SRR). As part of the SRR team, B&W’s expertise in environmental cleanup will advance SRS’s environmental management mission to treat, store and dispose of liquid waste. SRR is responsible for closure of noncompliant waste tanks, operating the site’s Defense Waste Processing Facility and salt processing facilities and managing tank farm operations necessary to support SRS missions.



*Advanced Test Reactor (ATR), located at the Idaho National Laboratory*

The Advanced Test Reactor (ATR), located at the Idaho National Laboratory, has contributed for more than 40 years to the safe use of nuclear energy and

advanced medicine. B&W TSG is responsible for facility and nuclear operations including all reactors, fuel management, and safeguards, security and emergency services as an operating entity at the laboratory. The fuel used in the ATR is supplied by Babcock & Wilcox Nuclear Operations Group, Inc.



*Advanced Mixed Waste Treatment Project*

Setting a phenomenal safety record, the Advanced Mixed Waste Treatment Project (AMWTP) received four prestigious awards from the National Safety Council for achieving 8 million hours and more than 1,900 days without a lost work day while packaging and shipping over 21,000 cubic meters of transuranic waste to DOE’s Waste Isolation Pilot Plant. The project is significantly ahead of the state of Idaho’s legally mandated schedule.

## **B&W TSG Teamwork & Safety**

### **Accomplishments through teamwork**

Increased production and enhanced performance

Emphasis on processes that result in a safe work environment

getting the

job done

M

Managing complex programs, projects and facilities for the government requires managers and teams that understand safety and security. B&W TSG manages and operates facilities that, when combined, cover thousands of acres and millions of square feet. B&W TSG is committed to maintaining a highly skilled security force to constantly monitor our sites. B&W TSG security guards are trained to assess local and world events to protect against a variety of potential risks.

B&W TSG is also committed to the safety of each employee. Target Zero is a program that reflects this commitment – a process that emphasizes a vision of zero accidents. At B&W TSG, we are dedicated to impeding accidents and their associated costs by preventing, eliminating or mitigating unsafe acts and conditions, and by responding properly to natural disasters and emergency situations. Aggressive safety management techniques such as improved hazard recognition, hazard correction and employee involvement help reduce occupational injuries and illnesses as well as the probability of negative safety impacts.



*Security at Pantex Plant*



*Oil well head at U.S. Strategic Petroleum Reserve*





*Lawrence Livermore National Laboratory -  
National Ignition Facility Target Chamber*

**quality performance**

that delivers

**W**

Whether B&W TSG is a prime contractor, integrated subcontractor or operating entity, the company is committed to delivering the same level of quality results wherever it has a presence. From the Savannah River Site to Lawrence Livermore National Laboratory, from Idaho National Laboratory to the U.S. Strategic Petroleum Reserve, B&W TSG commits 100 percent to customer responsiveness.

B&W TSG works hard to instill a culture that fosters attention to detail, a sense of pride derived from exceptional work performance and full accountability. The work ethic instilled by B&W TSG and its people is evident. Each time a production performance increases, a safety milestone is reached, or a process is improved, it is a testament to the B&W TSG culture.

#### **B&W TSG Delivers Results**

Teamwork that emphasizes safety  
and promotes security

Committed to customer responsiveness

Attention to detail, exceptional work  
performance and full accountability

responding

to critical needs

B

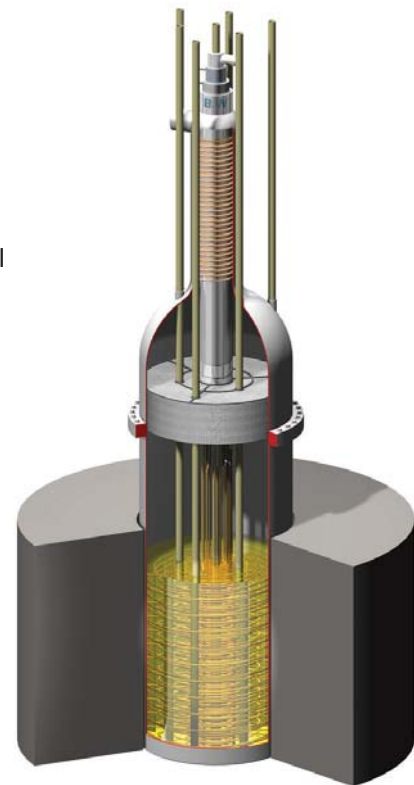
B&W TSG has developed ground-breaking technology to manufacture molybdenum-99 (Mo-99), the parent isotope of technetium 99m (Tc-99m), the most widely used radioisotope in the world for molecular imaging and nuclear medicine procedures. Using our patented and



ground-breaking technology, B&W TSG is preparing to manufacture the medical isotope to create a reliable, domestic source of Mo-99.

B&W TSG's agreement with Covidien, a leading radiopharmaceutical and medical device supplier, is an initial step toward establishing a large-scale U.S. supply of Mo-99. Unplanned shutdowns at a handful of aging nuclear reactors have led to periodic shortages of medical isotopes. Working in collaboration with Covidien, B&W TSG's Medical Isotope Production System (MIPS) has the potential to supply more than 50 percent of U.S. demand for Mo-99.

B&W TSG's patented Aqueous Homogeneous Reactor uses low-enriched uranium, offering an alternative to producing Mo-99 using highly enriched uranium. B&W TSG's reactor produces less than one percent of the radioactive waste that is currently generated in the production of medical isotopes.



240 kW MIPS reactor

**adaptable**

to change

**T**There is no greater measure of success than the ability to efficiently and expediently respond to change. Organizations that service government entities must adapt quickly if they are to sustain high levels of service. The business climate is also constantly evolving, providing new opportunities to offer our unique set of skills and capabilities.

B&W TSG is an organization that recognizes the evolving needs of its customers. Through continued customer focus, recognition of the need for environment-driven realignments and delivery of proven results that meet performance objectives, B&W TSG provides continued service delivered with integrity and commitment.

It is the way business is conducted and milestones are achieved.



*Pantex - Coordinate Measuring Machine*



*Manufacturing at Y-12*

delivering  
proven results

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