



Nuclear Power Services

RECOGNIZED NUCLEAR INDUSTRY LEADER

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A Recognized Nuclear Industry Leader

Since 1953, when CB&I designed, fabricated, and erected its first 225' diameter spherical containment vessel, the company has been a leader in the design, procurement, fabrication, and construction of nuclear structures through multiple industry cycles. CB&I has provided over 140 nuclear containment airlocks, 41 nuclear reactor pressure vessels, constructed spent fuel racks, spent fuel storage pool liners, liners for concrete containment vessels and full pressure containment vessels, and performed containment modifications and steam generator repairs. We also developed field machining capabilities so that large diameter containment openings could be machined in the field, the first field-assembled nuclear reactor pressure vessel, and first field stress-relieved containment vessel.

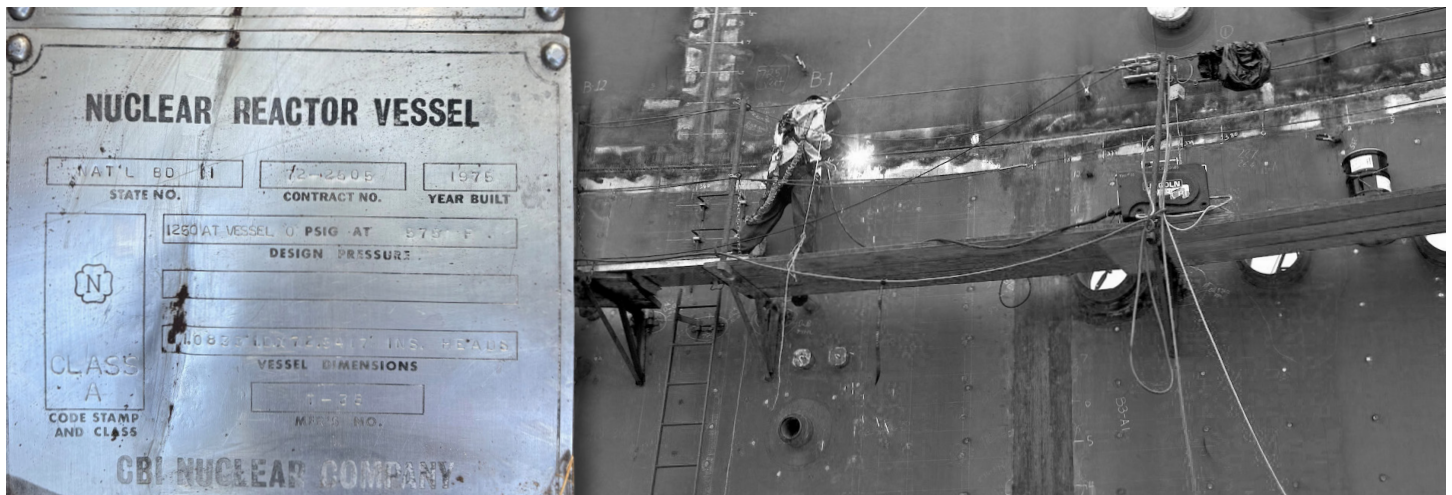
ASME Section III N-Stamp

With a world-class industrial safety performance record, CB&I combines unmatched experience with cutting-edge welding techniques and construction processes to deliver nuclear components of superior quality and efficiency.



CB&I also has provided extensive contributions to the ASME Section III nuclear code. The ASME Section III N-Stamp certifications ensure the highest level of safety and quality for components and processes involved in the nuclear power industry. CB&I is willing to perform the necessary requirements for N-Stamp certification of the engineering design and field operations for the containment vessel(s) pertaining to installation of governing materials, fabrication, examination, testing, inspection, stamping, and reporting.

CB&I has continuously maintained our ASME N-Stamp and approved Nuclear Quality Assurance Program since 2008. Our comprehensive lessons learned program keeps us innovating, always looking for more efficient methods.



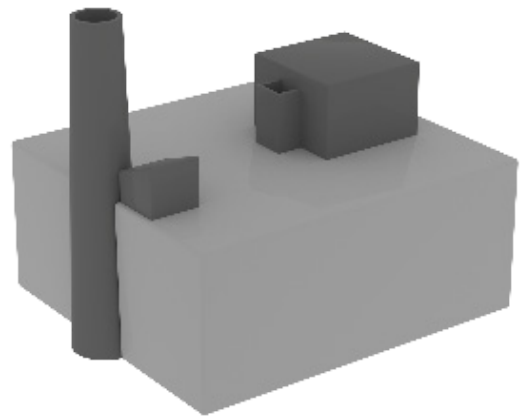
Containment Vessel Expertise

CB&I has constructed 132 nuclear containment vessels globally, supplying 75% of the operating nuclear power plants in the USA. The company recently completed two Westinghouse AP1000 containment vessel units at Plant Vogtle in Georgia, the first new U.S. nuclear units in over 30 years.



Advanced and Small Modular Reactors (SMRs)

The development of Small Modular Reactors (SMRs) is being driven by the increasing demand for clean power from data centers due to the growth in artificial intelligence. SMRs are generally defined as producing 300MW or less and are intended to have modular fabrication to reduce overall schedule and cost, along with smaller exclusion zones for faster grid connection. More information is available on the CB&I website.



CB&I Solutions for Nuclear Power Plants

CB&I has the global network of expertise and strategically located operations to provide customers world-class solutions for even the most complex projects.

We have the knowledge and experience to design, qualify vendors, source and fabricate material, and perform the field assembly and NDE work (engineering, procurement and construction) for the following:

- Containment vessels
- Steel composite walls
- Pool liner plates (i.e. spent fuel storage pools)
- Module fabrication
- Safety-related and non-safety-related storage tanks, including molten salt storage
- Other welded steel plate structures



Services:

- Engineering services: Design of ASME, Section III, Division 1 nuclear containment vessels, including design and analysis and detail engineering.
- Perform the necessary requirements for N-Stamp certification of the engineering design and field operations for the containment vessel(s) pertaining to installation of governing materials, fabrication, examination, testing, inspection, stamping, and reporting.
- Procurement
- Construction
- Weld Technology: includes our Weld Lab and Metallurgy Lab used to develop weld procedures (PQRs and WPSs), and to select and evaluate the proper process, equipment, and consumables. Includes developing PWHT procedures, NDE procedures and personnel certifications.
- Construction Technology: supports construction activities, developing lift and transport plans, performing constructability studies, developing and enhancing our proprietary construction methods and equipment, including automated welding.



Other Nuclear Services

CB&I provides additional services supporting existing nuclear power plants which include:

- Containment breechings
- Radioactive waste treatment vessels
- Steam generator replacement welding
- Erection of spent fuel pool liners
- Modification to containment vessels
- Maintenance and outage support
- Torus modifications
- Personnel airlock installations



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