

# Nuclear Industry Solutions

**BrandSafway Delivers Powerful Multiservice Solutions For Every Phase of the Project Life Cycle.** With the broadest solutions portfolio in the industry, BrandSafway offers the best and safest products and services for your power-related maintenance needs, access solutions, forming and shoring, heat tracing, and advanced digital planning, with unmatched service from an expert global workforce.

Safety, quality, delivery and cost efficiency with an all-in-one provider



**more safety  
more productivity**

# Nuclear Industry Solutions

## Construction & Maintenance

**Safety, quality, delivery and cost efficiency with an all-in-one provider**

### Access Solutions Throughout the Plant

- › Supported scaffold
- › Suspended systems
- › Hoists & lifts
- › Rope Access Solutions

### Reactors

- › Insulation removal & installation
- › Abatement
- › Refractory

### Containment Areas

- › Joint systems
- › Composite repairs

### Cooling Towers

- › Surface preparation
- › Heat tracing
- › Cathodic protection
- › Carpentry

### Forming & Shoring

- › Wall & column formwork
- › Slab formwork
- › Shoring solutions
- › Climbing formwork

### Flares/Vents/Stacks

- › Coatings
- › Composite repairs

### General Facilities

- › Cast-in-place forming & shoring solutions
- › Lead abatement

### Piping Networks/Systems

- › Abatement
- › Thermal protection
- › Thermal spray & metallizing
- › Cathodic protection
- › Leak detection & repair
- › Composite repairs
- › Energy & thermography audits
- › Corrosion assessments & CUI programs

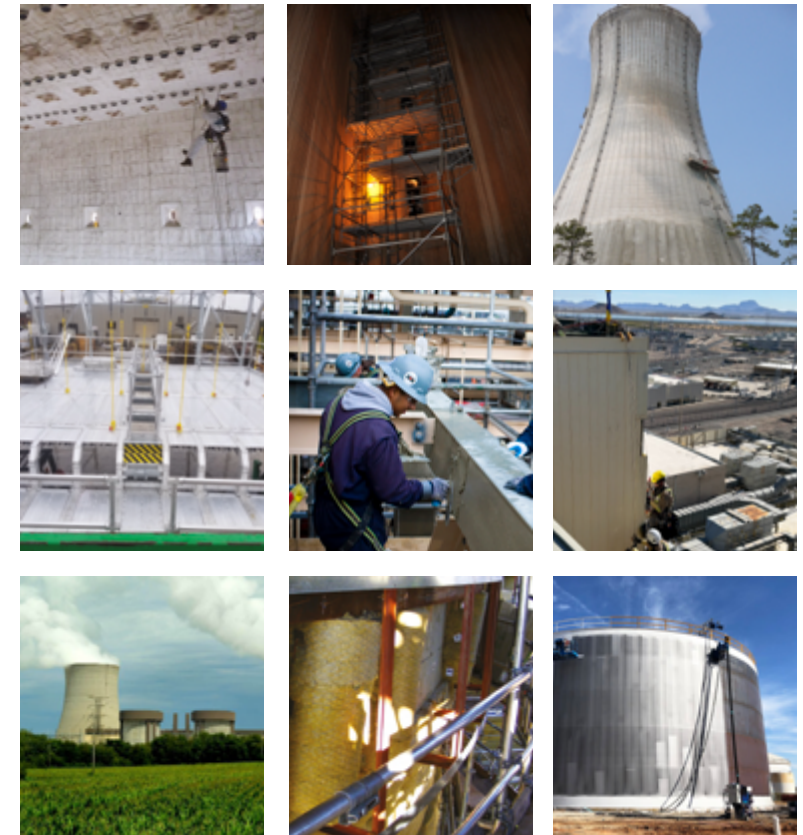
### Turbines/Generators

- › Thermal protection
- › Leak detection & repair

### Storage Tanks

- › Coatings & tank lining
- › Surface preparation
- › Cathodic protection

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## Key Highlights

BrandSafway can provide a wide range of specialized services in nuclear environments and nuclear power plants, tailored to meet the high safety, regulatory and technical requirements of the industry. Here's an overview of the types of services typically offered:



### Proven Safety Record

Strong history & culture of prioritizing safety, with more than **500+** safety awards received from industry associations and multiple years of **zero recordable incidents**

### Access Solutions

including scaffold, elevators, loading platforms and suspended access

- › Patented, innovative scaffold solutions (floating scaffolds for inspections)
- › Mobile elevated work platforms and scaffolding for inspecting and servicing overhead cooling units, lighting fixtures, and cable trays within data hall
- › Loading platforms designed for storage, distribution or temporary landing of all material types
- › Powered suspended access such as Spider® swing stages, baskets and work cages, enable work above and below for greater productivity
- › The QuikDeck® suspended access system allows modular design for easy customization and reconfiguration, but also enabling work above and below for greater productivity
- › Rapid-deployment solutions to minimize outage durations

### Siding & Roofing

- › Estimation, design, supply and installation of various system types including insulated metal panels, fire rated, single skin and fiberglass reinforced panel systems
- › Comprehensive turnkey solutions provided for the exterior building envelope, interior partition buildout, stair towers, and other customizable features
- › Preferred partnerships with the leading material vendors to enable expedited construction schedules

### Fireproofing Solutions

- › Wide offerings including intumescent and cementitious fireproofing
- › Integrated with other services (coatings, insulation, safe access)
- › Apply fireproofing to all structural steel members (beams, columns, decking) to preserve structural integrity
- › Retrofit by applying fireproofing to newly installed cable trays

### Coatings & Insulation

- › Protective coatings and linings suited for nuclear containment and radiation resistance
- › Thermal insulation for piping, equipment and reactors
- › Containment coatings and environmentally controlled enclosures

### Forming & Shoring Solutions

- › A comprehensive product range designed to meet the most rigorous needs in concrete construction
- › Systems such as GASS® and Aluma Lite offer industry-leading capacities and safety features to meet the most demanding forming and shoring needs
- › Full-service engineering capabilities to meet project-specific demands and provide solutions that maximize efficiency, increase productivity and ensure safety

### Digital & Safety Innovations

- › Utilize proprietary BrandNet® platform to estimate and visualize different access solutions onsite
- › Model complex scaffold designs, maintenance scheduling and 3D modeling of configurations
- › Track capex using SmartTag™ to avoid loss
- › Create BIM model for equipment placement and cable routing

### Project Management & Outage Support

- › Outage support services
- › Integrated labor and materials planning
- › Cost, scheduling and productivity behavioral tracking
- › Multi-site coordination and benchmarking

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## Construction & Maintenance

### Case Study: Suspended Work Platforms Essential for Upper Feeder Nuclear Reactor Core Refurbishment

The large area work platform combined standard and custom-fabricated components, such as a unique suspended access system, that was part of a solution to access and refurbish six reactor units at Bruce Power — the supplier of 28% of Ontario's power.

### Keeping the project on schedule with unique solutions

Work was performed in tandem across the upper portion of the reactor and the lower vault. This included replacing tens of thousands of feet of carbon steel feeder tubing and the specialized nuclear fuel channel assemblies of the primary heat transport system, as well as replacing hundreds of tubes in a calandria as part of the reactor core.

#### Quick Facts

- > **Project:** Bruce Power Major Component Replacement
- > **Location:** Tiverton, Ontario
- > **Dates:** January 2020 for Unit 6, through 2023 for Unit 3
- > **Services:** Engineering and project management
- > **Scope of Work:** Refurbishment of six reactor units at a 6,430 MW nuclear generating station
- > **Products:** SuperDeck and SuperMod extruded aluminum components
- > **Safety Record:** Zero recordables



**more safety  
more productivity**

> best in class safety  
performance

> specialty team of  
~40,000 People

> 30,000+ customers ...  
and growing

> ~340 locations  
in 25 Countries

> revenues of  
nearly ~\$5b

> assets & equipment  
worth ~\$4.2b

Why BrandSafway?

## Unique combination of expertise & resources

We are **BrandSafway**, a leading global provider of access, specialised services and forming & shoring solutions to the industrial, commercial and infrastructure end markets. With more than 340 branches all over the world, we provide support for ongoing maintenance as well as for refurbishment needs and new construction plans.

[More about BrandSafway](#)

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