

# INDUSTRIAL - NUCLEAR

Spanning five decades and more than 400 nuclear energy projects, Aecon Nuclear's portfolio of building, refurbishing, maintaining and decommissioning nuclear power facilities reflects a record of project success that ranges from small but essential maintenance contracts to major construction endeavours. Aecon supports clients with expert project management and trades working to Aecon's most exacting standards, based on the nuclear industry's fundamental principles of safety, reliability, quality and predictable performance.

Aecon has successfully executed a broad range of projects, including construction of the Bruce 'B' heavy Water Plant, Bruce Unit 1 & 2 Balance of Plant Refurbishment and the Darlington Used Fuel Dry Storage Project. This kind of experience and track record has made Aecon a trusted supplier to clients for their mission critical projects. The Darlington Retube and Feeder Replacement Project (RFR) – Ontario Power Generation's largest nuclear project, and the fabrication, assembly, inspection, examination and testing of 24 American Society of Mechanical Engineers (ASME) Mechanical Process Modules for two new build nuclear power plants in the U.S are key examples of Aecon Nuclear's flagship projects.

Aecon's unparalleled industry experience has also helped with securing long-term master service agreements with longstanding clients in key sectors of the Canadian economy. In the nuclear power sector, these trusted partnerships are especially and increasingly important.

To support the nuclear sector in Canada, Aecon maintains a nuclear quality management system compliant to the requirements of CSA Standards N286-05, CAN3-Z299.1 and N286.7. Additionally, Aecon maintains several CSA N285.0 Certificates of Authorization. Aecon's N, NPT, NS & NA Stamps from the ASME, coupled with programmatic compliance to U.S. Federal Regulation 10CFR50 Appendix B, has extended Aecon's reach to the U.S. and international nuclear markets.

## Our Capabilities:

- // Full EPC project services
- // Reactor component replacement
- // Plant system overhaul, upgrades and modifications
- // Maintenance and outage support
- // Nuclear waste management services
- // Fabrication of engineered modules, waste containers and flasks, plant equipment and components
- // Structural and pipe fabrication
- // CANDU single or multiple fuel channel replacements
- // Turbine generator maintenance/overhaul
- // Electrical distribution, instrumentation and control system upgrades/modifications
- // Rotating equipment, pumps and valve overhaul
- // Security systems (including fencing) modifications
- // Site clearing, preparation and infrastructure development
- // Facility construction and maintenance
- // Foundation and heavy civil construction

## Aecon-Wachs

Aecon-Wachs, previously known as Wachs Technical Services, has served the industrial and power generation markets for nearly 30 years. Aecon-Wach's industry professionals bring in-depth expertise to deliver projects safely, on-time and within budget. Aecon-Wachs combines the strengths and experience of a leading construction contractor with specialized engineering capabilities for industrial clients to develop and drive an integrated construction management plan. The end-result is always the same; a proven, managed task approach that provides value to clients and ultimately improves cost, schedule, quality and construction predictability on every project we deliver.

For a complete listing of capabilities for Aecon-Wachs, visit [aecon.com/Aecon-Wachs](http://aecon.com/Aecon-Wachs).