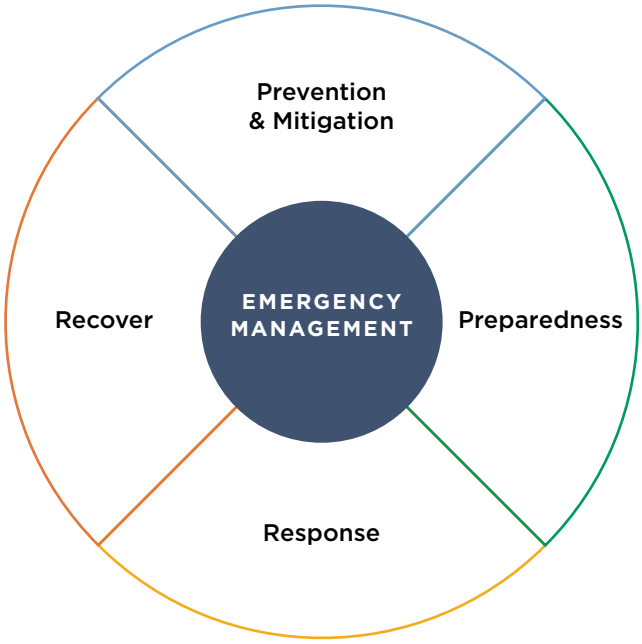
BRUCE POWER **FACTS**

Emergency Management

Bruce Power maintains an all-hazards approach to Emergency Management and Preparedness. The pillars of Emergency Management provide the foundation for Bruce Power to uphold its commitment to the safety of its first responders, employees, the station, the public and the environment.



RESPONSE READY

In 2022, Bruce Power hosted its fourth large-scale exercise, Huron Endeavour, with the participation of the Canadian Nuclear Safety Commission, Health Canada, Ontario's Provincial Emergency Operations Centre, neighbouring Municipalities of Kincardine and Saugeen Shores, and local hospitals. More than 1,000 people took part in the three-day exercise, which successfully tested Bruce Power's emergency response plans, as well as the Provincial Nuclear Emergency Response Plan, by simulating an on-site emergency scenario with outside agencies and municipalities.

POST-FUKUSHIMA ENHANCEMENTS

Since the unprecedented earthquake and tsunami in Fukushima, Japan in 2011, nuclear power plants in Canada, including Bruce Power, have studied their layers of safety systems and communications abilities for beyond-design basis accidents. Through a commitment to continuously improve the safety of its nuclear site, Bruce Power has invested millions into its safety systems for design-basis and beyond-design basis accidents.

TIP TOP INNOVATIVE PRACTICE AWARDS

In 2023, Bruce Power received a Top Innovative Practice (TIP) Award for the new Containment Filtered Venting System (CFVS), which is a first-of-its-kind system that marks an advance in protection and an additional layer of defence against a radiological release. The primary goal of the CFVS is to discharge steam, air, and other gases like hydrogen to the atmosphere to allow the vacuum building to maintain negative pressure in the highly unlikely case of a loss of coolant incident on site. More importantly, the CFVS removes containment aerosols during venting and, with their metal screens, radioactive particles like bonded Cesium and Iodine would be captured and not released to the environment.

NEI NUCLEAR ENERGY INSTITUTE

A STATE-OF-THE-ART EMERGENCY MANAGEMENT CENTRE

that provides a hub for Command and Control within Bruce Power's own organization and throughout local communities and the province.

ENHANCED PROCEDURE AND SEVERE ACCIDENT MANAGEMENT GUIDELINES

to align with lessons learned from Fukushima.

PURCHASED A FLEET OF FIRE PUMPER TRUCKS

capable of providing emergency cooling water to the boilers, primary heat transport system, moderator core, and used fuel storage bays.

30 MIN

Enhanced training to enable teams to have the necessary equipment deployed and operating within 30 minutes.

STANDBY GENERATORS

Purchased additional standby generators which are stored off site based on lessons learned from Fukushima.

PHYSICAL CHANGES INSIDE THE STATION

to be able to quickly connect the new emergency water and power equipment directly to the fixed systems in the powerhouse.

10KM

Upgraded off-site monitoring and notification equipment that reaches out 10 kilometres and runs around the clock monitoring to detect any possible release to the environment.

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