



OPG Enterprise Emergency Management (EEM) 2023 Program Overview

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ONTARIOPOWER
GENERATION

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Enterprise Emergency Management – Our Mandate

- To ensure OPG has adequate provisions for the preparedness and response capability to mitigate the effects of a nuclear emergency, and protect the health and safety of the public, staff and the environment

How is this implemented?

- CNSC **Reg Doc 2.10.1 & Provincial Nuclear Emergency Response Plan** (PNERP) lay out requirements
- To respond effectively to an emergency, OPG practices the response capability through **10+ simulated emergencies** every year, and maintains plans, equipment and facilities to ensure that this capability is sustained
- Nuclear Emergency Preparedness capability - Facilities, Equipment, Procedures, Emergency Response Organization (**1,300+ trained and proficient ERO members**, 54 unique qualifications)
- Emergency Management – Business Continuity, Crisis Management, Grid
- **Off-site authorities and stakeholders** - Alignment and inter-operability of emergency plans

Enterprise Emergency Management Pillars

1. Program Excellence

Strengthen OPG's social license through a robust EP program which is integrated with station goals, to ensure the protection of employees, the public and the environment

2. Perfect Practice

Maximize the Emergency Response Organization's effectiveness through drills and exercises that are realistic, challenging and evaluated against a high standard

3. Constant Improvement through Innovation

*Develop a culture of continually challenging the status quo to improve the EP program through a cycle of:
Ideation → Innovation → Integration → Iteration*

2022 Highlights

- **Proficiency of ERO (Emergency Response Organization):** Increased training and simulated experience for a key ERO role resulted in industry top quartile performance of ERO competence (as measured by 'Drill & Exercise Performance'). Skills broadening continued among EEM staff between nuclear and conventional.
- **Drills & Exercises:** Successfully completed 5 evaluated drills (including Liquid Emission Response Drills), 1 Transportation Emergency Response Drill, and 10 Self Assessed crew practices at Pickering in 2022
- **Potassium Iodide (KI) Pills** - 500,000+ KI Pills were distributed through [preparetobesafe.ca](https://www.prepabetobesafe.ca) and New Neighbours in the first 9 months of 2022. Orders for 2022 were x5 that of 2021, due to increased public attention following international events (eg. war in Ukraine). OPG remains a member of the CNSC-led KI Working Group.
- **Innovation** – Electronic Fax system used to increase timeliness of fax transmittals. Web EOC upgrade
- **Successful 'Emergency Management Review Visit' (EMRV)** by 'World Association of Nuclear Operators' (WANO) at Darlington in June



2022 Exercise Unified Command Summary Video:

<https://vimeo.com/718360117/3ace682b21>





2023 Priorities

- **Drills & Exercises:** Full drill & exercise schedule through 2023, with new and challenging drill scenarios (6 at Pickering, including a 2023 full-scale exercise in September and Transportation Emergency Response)
- **Partnerships:** Maintain strong partnerships with external partners at all levels (Federal, Provincial, Regional, Municipal, Nuclear industry) through regular discussion, alignment and MOUs.
- **External evaluations and benchmarking:** CNSC site visits & audits, WANO review fall 2023, ongoing benchmarking with industry peers
- **New Nuclear (Small Modular Reactor Darlington):** Supporting OPGs initiative with staff and expertise.
- **Emergency Preparedness Optimization Project:** Project to streamline levels of ERO staffing and facilities.
- **Potassium Iodide (KI):** OPG will remain an active member of the ongoing CNSC-led KI Working Group in 2023, as well as consulting with municipal and provincial partners on various KI matters
- **Evacuation Time Estimate (ETE) Studies:** Pickering and Darlington ETEs are underway, incorporating newest 2022 federal census data, and will be posted on opg.com in 2023.
- **Resourcing:** Building proficiency of new staff to department

For more information, visit: www.opg.com/nuclearsafety

