



# OPG Enterprise Emergency Management (EEM) 2025 Program Overview

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# Agenda

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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, personnel, and the environment.

## How is this implemented?

- CNSC **Reg Doc 2.10.1** & **Provincial Nuclear Emergency Response Plan** (PNERP)
- 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 via Facilities, Equipment, Procedures, Emergency Response Organization with approximately **1200 trained and proficient ERO members**, 54 unique qualifications
- Emergency Management—Business Continuity, Crisis Management, Grid
- Alignment and inter-operability of emergency plans with **off-site authorities and stakeholders**

# 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*

# Ontario Nuclear Emergency Framework

- **Province** has authority for off-site emergency response and makes all public protective action decisions
- **Municipalities** implement the response actions directed by the Province  
e.g. Durham/Toronto Emergency Management Organizations
- **Utilities** quickly notify and transmit information to off-site parties when an event is occurring and deal with the on-site response
- Provincial Nuclear Emergency Response Plan ([PNERP](#)) determines the protective action to be used for public safety, plus the requirements for all stakeholders

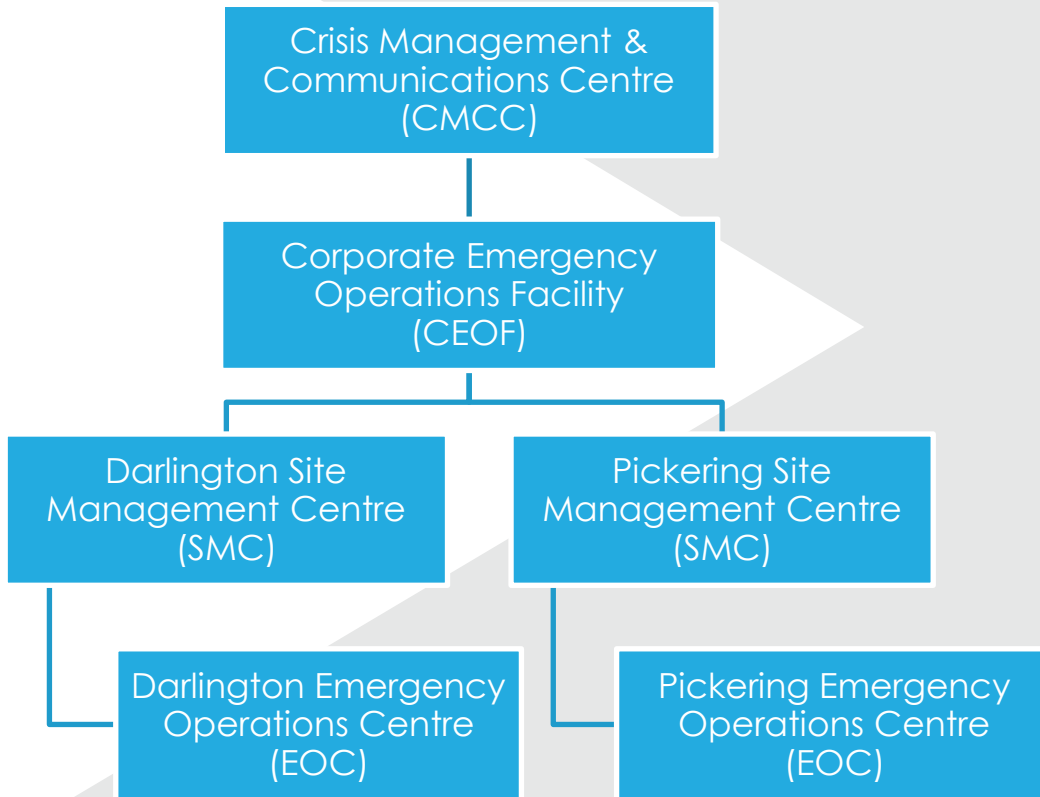


# Provincial Public Protective Actions

- In the unlikely event of a nuclear emergency, the Province alerts people through a combination of outdoor sirens, automated telephone messages, AlertReady text messages, and radio, television and social media alerts in the area.
- The Province can order a number of public protective actions including:
  - Sheltering in place
  - Evacuations
  - Ingestion of potassium-iodide pills
  - Ingestion control measures



# OPG Emergency Response Organization Structure



- OPGs tiered response structure is comprised of three scalable levels
- Depending on the severity of the incident various elements of the Emergency Response Organizations (ERO) may be activated:
  - Strategic (CMCC)
  - Operational (CEO, SMC)
  - Tactical (EOC)

# OPG Drills & Exercises Program

- OPG executes 10 drills annually to evaluate every duty response team at Darlington and Pickering, plus several additional focused drills:
  - 5 Darlington station emergency drills
  - 5 Pickering station emergency drills
  - 1 focused Transportation Emergency Response drill
  - 1 focused Off-site Centre drill
  - 1 focused Liquid Emission Response drill
- Every 3 years, at each Darlington and Pickering, OPG executes a full scale inter-operability exercise
  - Involves regional and provincial off-site authorities
  - Typically between 1-3 days in length



# 2024 Highlights

- **Drills & Exercises:** Successfully completed 5 evaluated drills and 10 Self-Assessed crew practices.
- **Refreshed of Audio-Visual setup at Site Management Centre (SMC):** Audio-Visual setup updated at SMC to improve communication
- **Pickering Licensing Hearing to Extend Operations to 2026:** Supported Licensing Hearing to Extend Operations of Pickering Units 5-8 to end of 2026.
- **Offsite Centre Exercise:** Executed successfully at York University, including participation from 100 OPG staff and over 300 participants including York University, City of Toronto, Toronto Emergency Management, and others
- **OPG's Community Power Expo:** EEM team participated had a booth at the OPG's Community Power Expo event and provided information about nuclear emergency preparedness to the community members
- **Framework Meeting:** EEM participated in framework meetings with Hiawatha, Curve Lake, Alderville build awareness of OPG's Emergency Management program and exploring engagement opportunities
- **Partnerships:** Maintain strong partnerships with external partners at all levels (Federal, Provincial, Regional, Municipal, Nuclear industry) through regular discussion, alignment and MOUs.



# 2025 Priorities

- **Drills & Exercises:** Full drill & exercise schedule through 2025, with added realism incorporated into scenarios.
- **Exercise Unified Command 2025** will be conducted at Darlington over a two-day period with Offsite Centre activation.
- **Cobalt Magnet Exercise** will be conducted in Feb 2025 with OPG EEM involvement in their Mobile Monitoring & Decontamination Unit.
- **GRIDEX** will be conducted in November 2025 – North American wide grid disturbance exercise conducted every 2 years.
- **DN WANO Emergency Management Performance Evaluation (EMPE)** will be conducted in February 2025
- **PN WANO EMPE** will be conducted in September 2025
- **New Nuclear (Small Modular Reactor Darlington):** Continued support for initiative with staff and expertise.
- **Pickering 014 Safe Storage:** Continue to support implementation of plan to transition activities to maintain appropriate Emergency Response
- **Pickering 058 Refurbishment:** Effort underway to define and plan the transition activities to maintain appropriate Emergency Response during refurbishment
- **Engagement:** Continued Improvement in how we engage with First Nations surrounding our operating facilities in the conduct of our Emergency Management program.
- **Revised Provincial Nuclear Emergency Response Plan and REGDOC 2.10.1, Nuclear Emergency Preparedness and Response:** Revisions can be significant to our program and may be of interest to the community members

# Additional resources

- Visit [www.opg.com/nuclearsafety](http://www.opg.com/nuclearsafety) for general information on nuclear safety
- Visit [youtu.be/PGTgxXAJSpS](https://youtu.be/PGTgxXAJSpS) for a brief summary of an OPG nuclear emergency exercise
- Partner organization resources:
  - Province [www.ontario.ca/page/emergency-management](http://www.ontario.ca/page/emergency-management)
  - Durham [www.durham.ca/en/living-here/emergency-preparedness.aspx](http://www.durham.ca/en/living-here/emergency-preparedness.aspx)
  - CNSC [www.cnscccsn.gc.ca/eng/resources/learning-portal/index.cfm](http://www.cnscccsn.gc.ca/eng/resources/learning-portal/index.cfm)
  - CNSC video: [www.youtube.com/watch?v=vggzl9OngAM](https://www.youtube.com/watch?v=vggzl9OngAM)



For more information, visit: [www.opg.com/nuclearsafety](http://www.opg.com/nuclearsafety)

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