



2019/2020

OPG Emergency Preparedness Presentation to DNHC

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OPG Nuclear

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Nuclear Emergency Response

Pickering's emergency response plans meet and exceed Regulatory requirements. The plans are robust and frequently exercised, the staff are well trained, and the equipment and facilities required to respond are poised.

Agenda:

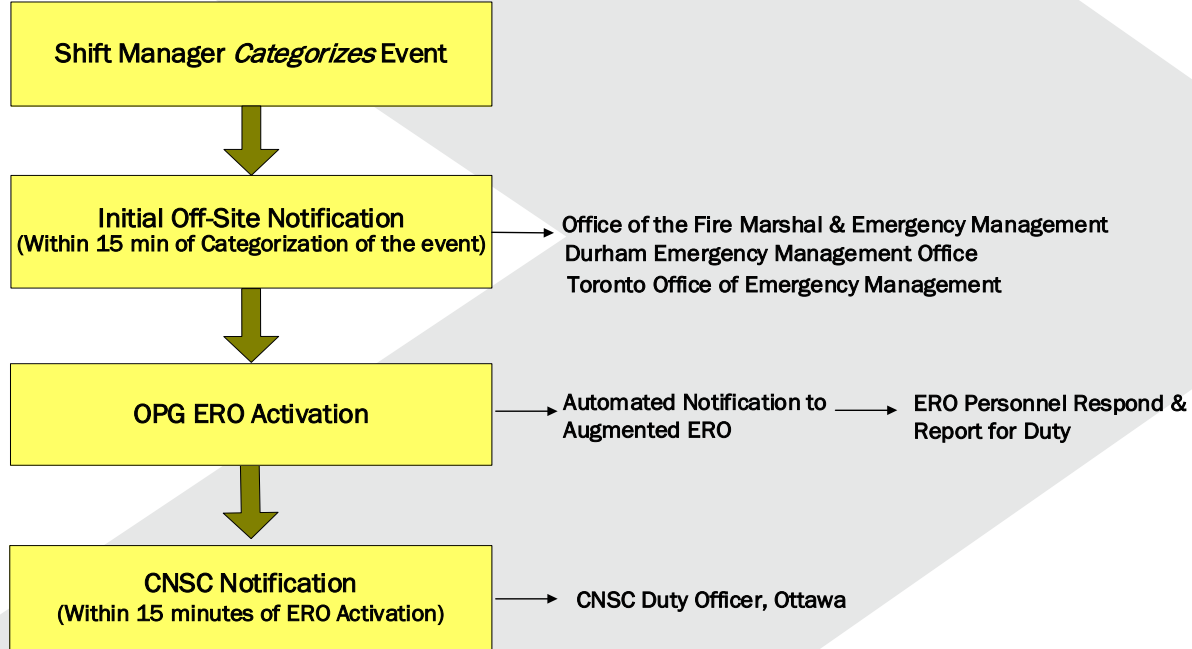
- Nuclear Emergency Response Overview
 - Categorization of event
 - Notifications and Alerts
- 2019 & 2020 highlights

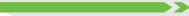


Provincial Nuclear Emergency Response Plan (PNERP)

- Province has authority for off-site emergency response
- PNERP determines protective action strategy for public safety
- PNERP updated to enhance emergency planning
 - ✓ Public consultation process used
 - ✓ Updated PNERP Master Plan approved by Provincial Cabinet and implemented at OPG

Emergency Notifications





Public Alerting & Communication of Emergency Information

- Provincial Emergency Operations Centre (PEOC) decides on activation of Public Alerting
- Public alerting sirens for the 3 km zone
- *Durham* Region and the City of Toronto also have phone alert system within 10 km zone
- Provincial emergency public warning system in place
- Province issues public advisories on protective measures being directed via Emergency Bulletins



Event Categorization

CONSOLIDATED NUCLEAR EMERGENCY PLAN (CNEP) - OPG

The first action is the identification, classification and, if appropriate, declaration of a station emergency. A station emergency may be declared for:

- Unusual radiological conditions
- Non-radiological events requiring protection of on-site personnel
- Activation of the ERO to deal with the event.

OPG notifies the Province within 15 minute of Categorization

Event Notifications from OPG

3 important notification to ensure an effective emergency response

- **Shift and on-site staff** are warned, assembled and mobilized. Station Emergency tones alert station staff that an emergency situation has occurred, immediate mobilization of shift ERO. Personnel take the appropriate on-site protective actions.
- **External Agencies** receive Off-site emergency notifications (provincial, municipal, CNSC).
- **Emergency Response Organization** (ERO) augmentation occurs (duty on-call and call-in responders) with automated MIR3 system.



2019 Highlights

Drill and Exercise Program

- ✓ 13 Evaluated Drills
 - ✓ Offsite Reception Centre Exercise – Dell Park Homes
- ✓ 25 Crew Practices



IAEA EPREV – positive review

WANO Peer Evaluation - Darlington & Pickering received highest rating

Implemented Revised PNERP Master Plan

- ✓ Revised all the governance documents to reflect revised PNERP requirements for Darlington and Pickering

Emergency Mitigation Equipment Phase II Project - Completed

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2020 Highlights

Drill and Exercise Program

- ✓ 12 Evaluated Drills
- ✓ 25 Crew Practices
- Multiday exercise (Exercise Unified Command) in Darlington
 - Includes external stakeholders including Province, lessons learned from other large scale exercises included.
- Upgrade Offsite survey Van Fleet
- Considering Implementation of Radiation survey Drone





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