



Nuclear Emergency Preparedness Program

Durham Emergency Management

Agenda

1. Nuclear Program Activities
2. 2024 Plans

1. Nuclear Program Activities



**Nuclear
Plans**



Training



**Exercises &
Drills**



**Committees
& Working
Groups**

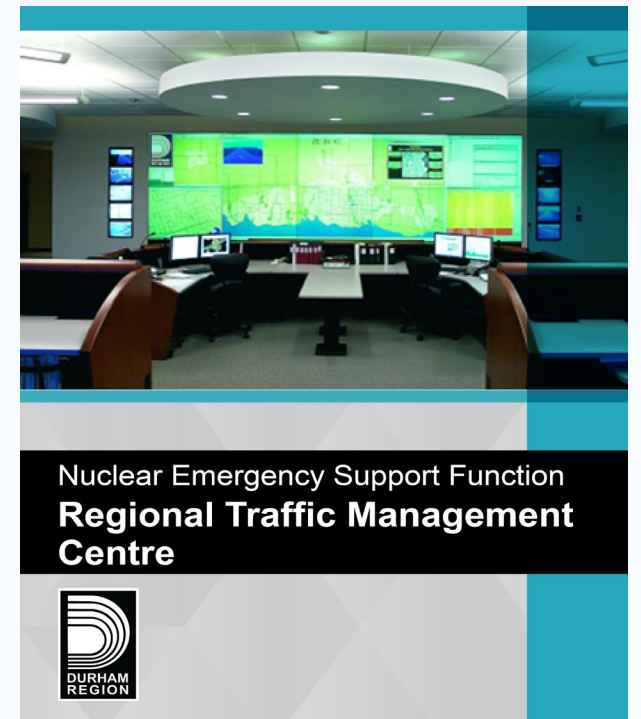
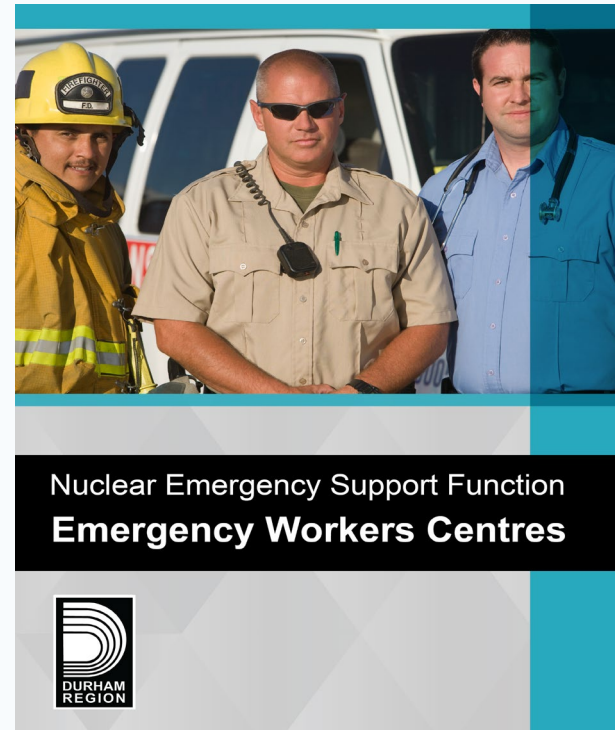
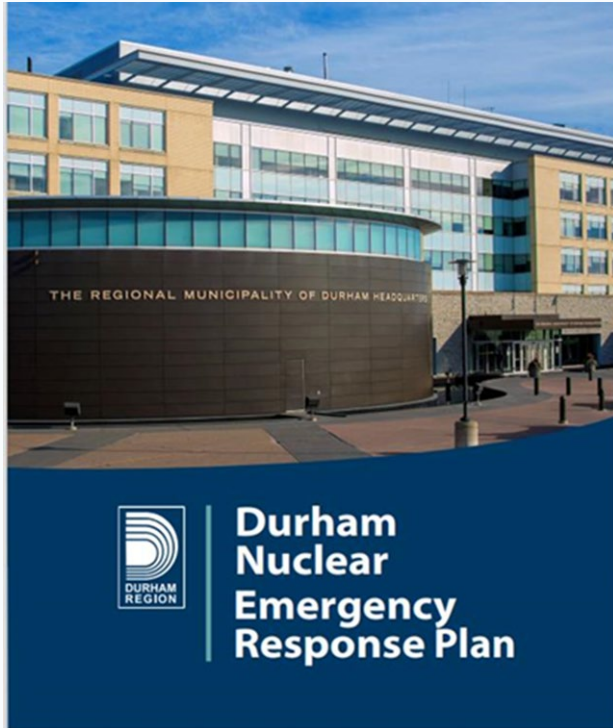


**Public
Education &
Awareness**



**Public
Alerting**

Nuclear Plans



Training

EM:100



Emergency
Management
Foundations

EM:200



Nuclear Emergency
Management:
The Risk, Planning Basis
& Response Structure

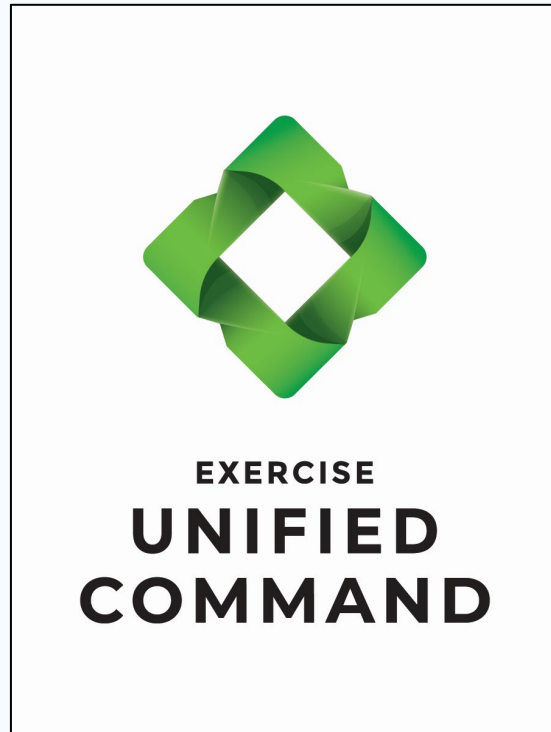
EM:300



Working in the
Regional Emergency
Operations Centre



Exercises & Drills



Nuclear - September



Cyber Security – October



Tritium Drill – November



Nuclear Committees & Working Groups

Regional

- Durham Region Nuclear Emergency Management Coordinating Committee
- Nuclear Sector Working Group
- Durham and Toronto EM Working Group
- Durham, Toronto, OPG Public Education Working Group
- Durham Evacuation Planning Team
- DNHC

Provincial

- NEMCC Main Committee
- NEMCC Transportation Subcommittee
 - Mapping Working Group
 - ETE Working Group
- NEMCC Public Education Subcommittee
- NEMCC KI Working Group
- EPREV Provincial Working Group

Federal

- EPREV Steering Group
- CSA N1600 Technical Committee
- CNSC KI Pill Working Group
- CNSC Hearings

OPG

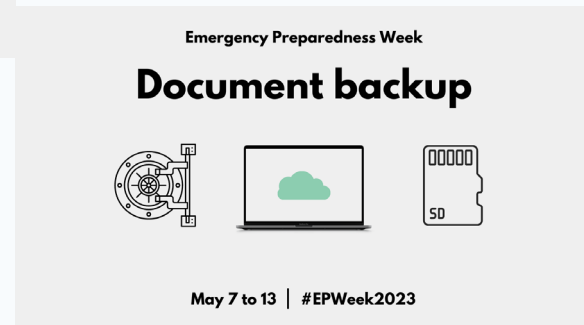
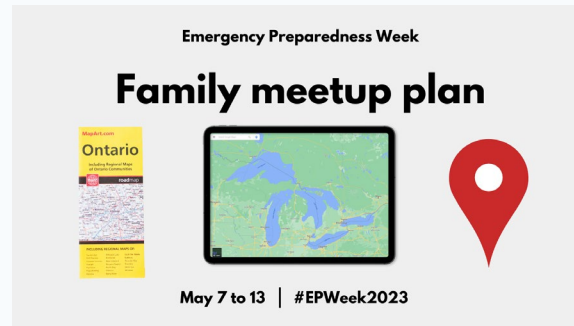
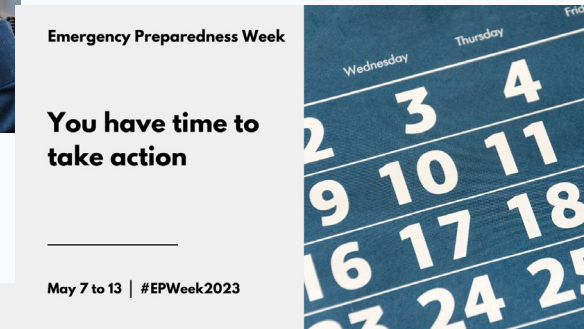
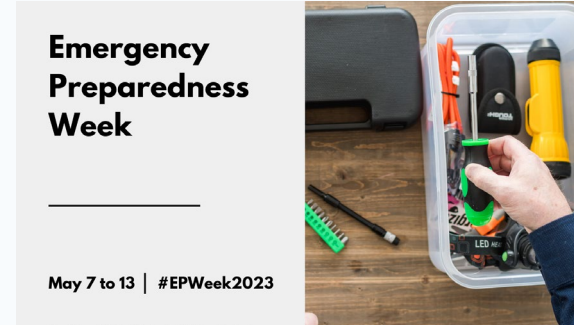
- ETE Studies
- Exercise Planning:
 - Steering Committee
 - Evaluation Working Group
 - Communications Working Group
 - Joint Exercise Planning Team
 - Scenario Development Working Group

Public Education & Awareness

Emergency Preparedness Week

Durham's tactics focused on the following:

- Time to take protective action
- Educate people on how they will be notified of a nuclear emergency
- Have a family meet-up spot out of town
- Have important documents backed up and saved in a safe place



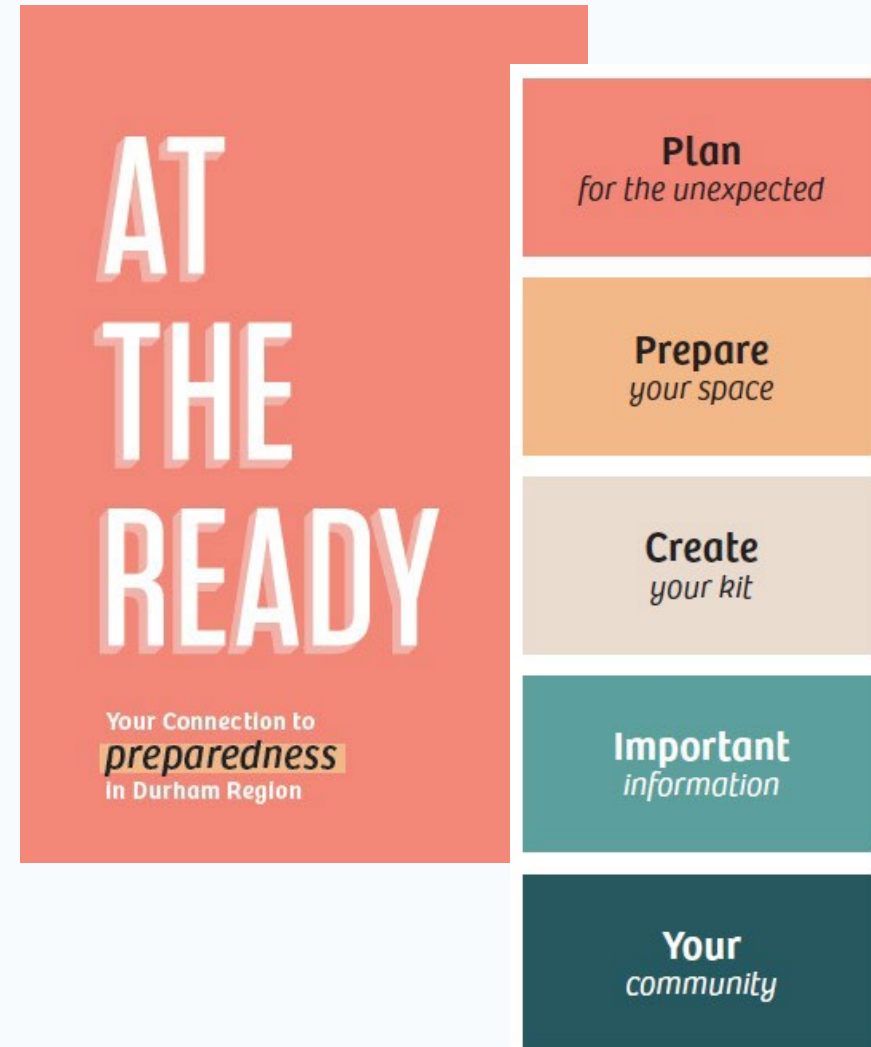
Public Education & Awareness Continued

At The Ready

- Official launch of At the Ready during EP week.

Community Events

- VON Durham Hospice Services
- Health fairs at Regional LTCFs
- OPG Open House



Public Alerting Campaign

- The target audience for the campaign are people who live, work, play, or go to school within 10 km of the Darlington & Pickering NGS.
- The goal is to improve awareness of the testing and where to obtain more information.

A few new tactics for the campaign included the following:

- Door hangers direct to residents and businesses within the 3 km zones around PNGS and DNGS.
- A Global TV Durham ad buy
- Enhanced partnerships with the City of Pickering and Municipality of Clarington; supported our campaign with various digital community signs.
- Weather Network app ads – although not a new tactic, we experimented with new ad sizes to increase exposure.

Public Alerting Campaigns

- An impression is one view (or listen) of a piece of content. Impressions are a proxy measure for awareness and a standardized way to measure shared, earned, paid and owned media.
- We continue to reach out to Boards of Trade and Chambers of Commerce and ads were placed with the Weather Network and Spotify to reach more people digitally.
- There were 7,800 page views, up from 6,200 last fall on the Region's nuclear preparedness website.

Public Alerting Campaign Impressions	
Social Media	460,000+
Earned (PSAs)	500,000+
Paid (radio, print, media ads)	515,281 (excludes Curbex & social media)
Overall Impressions Total	1,475,681



Public Alerting - Indoor

Public Alerting Results				
	Darlington		Pickering	
Zone	Number of Calls	Time	Number of Calls	Time
0 – 3 km	7	1 min	1,424	3min:47sec
3 – 10 km	14,077	18min:18sec	23,764	28min:33sec
Total	14,084	19min:18sec	25,188	32min:20sec

Following the test in 2020, DEM established performance metrics for all future tests of the indoor alerting system.

Note: Outside of the 3 km zone, a first pass dialing duration of 15 mins cannot be achieved due to current infrastructure limitations.

	Zone	% of Success Calls	First Pass Dialing Duration
Darlington	0 – 3 km	85% of the landlines successfully connected	< 15 mins
	3 – 10 km	75% of the landlines successfully connected	N/A
Pickering	0 – 3 km	85% of the landlines successfully connected	< 15 mins
	3 – 10 km	75% of the landlines successfully connected	N/A



Public Alerting - Outdoor

- The sirens update was successfully completed the week of June 5, 2023. The test of the sirens system was also conducted during this time. As each siren was updated, it was quickly tested.
- DEM has established the following performance metrics for all future tests of the outdoor alerting system: **all sirens activate 100% of the time during the test.**



Plans and Compliance

- Annual review and revision of the Durham Nuclear Emergency Response Plan (DNERP) and supporting documents.
- Provide feedback on the updated PNERP to the Province during the stakeholder consultation and implement the identified designated municipality requirements.
- Continue participating in the Ministry of Transportation-led evacuation planning, including the ETE studies with KLD and developing site-specific plans for Pickering and Darlington.
- Continue developing the Emergency Workers Centre supporting documents, including forms and checklists, in collaboration with internal and external stakeholders.

Training

- Continue to deliver the Intro to Nuclear course to Regional staff and other organizations that may have to respond to a nuclear or radiological emergency.
- Complete the Radiation Basics and Emergency Workers Centre training courses.
- Further develop and revise training materials such as the Nuclear Emergency Operations Response Tables and nuclear-specific Incident Action Plan templates, forms, and checklists for the Regional Emergency Operations Centre and EWC.

Exercise and Drills

- Start planning for Cobalt Magnet and the Darlington exercise in 2025.
- Assist other Regional Departments, local area municipalities, and school boards with their nuclear exercise planning, development, and evaluation.
- Ensure all recommendations and action items in the After Action Reports and Improvement Plans from exercises are completed.

Committees, Working Groups and Meetings

- The DEM team will continue participating in nuclear-specific meetings, committees, working groups and commission hearings.

Public Education and Awareness

- Continue collaborating with the City of Toronto and OPG on the Nuclear Public Education Plan with an integrated communications framework to amplify messaging, identify synergies, coordinate strategic decisions, and share resources.
- To further improve and enhance public education and awareness through a nuclear awareness social research project within Durham to understand our communities and their knowledge of nuclear emergency preparedness (Year 4 of the 4-year City Studio survey in collaboration with Ontario Tech University).
- Investigate further communication strategies with stakeholders and differentiate the messaging used in the 0 – 3 km and 3 – 10 km zones as part of the indoor public alerting campaign.
- Continue to promote the At the Ready campaign, focusing on personal emergency preparedness among the target audience of millennial moms.

Public Alerting - Indoor System

- Conduct the annual test of the mass notification system.
- Continue to improve the integrity of the current landline data and investigate how to obtain better data for future tests.
- Test and update nuclear notification and activation scripts for use in the mass notification system.

Public Alerting – Outdoor system

- Conduct the annual test of the siren system.
- Ensure the service provider completes all semi-annual inspections of the siren system, including ground maintenance.
- Investigate and determine a permanent solution for the leaning siren pole (D6).
- Continue implementation of the battery replacement plan.



Thank You

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