



Nuclear Emergency Preparedness Program

Durham Emergency Management



Agenda

- 1. Nuclear Program Activities**
- 2. Plans for 2023**

1. Nuclear Program Activities



**Nuclear
Planning**



Training



**Exercises &
Drills**



**Committees,
Working
Groups &
Meetings**



**Public
Education &
Awareness**



**Public
Alerting**



Nuclear Planning

Durham Nuclear Emergency Response Plan

2022 Provincial Nuclear Emergency Response Plan Review

Transportation Evacuation Planning

School Board Nuclear Planning

Training

- A nuclear training package was developed and distributed to all Regional Control Group members, their alternates, and exercise participants in preparation for ExUComm in February 2022.
- Staff are currently developing an Intro to Nuclear course. This will build upon knowledge gained from the training package and focus on their roles, responsibilities and communication pathways.
- Other courses to be developed in 2023 include Radiation Basics and Emergency Workers Centre training. These courses are part of the multi-year training plan and matrix developed by the DEM team and are aligned with the multi-year exercise plan.

Exercises & Drills

- DEM and Regional Departments participated in Exercise Unified Command in a virtual Regional Emergency Operations Centre and in person at the Emergency Workers Centre over 3 days in February.
- Following the exercise, DEM conducted debriefing sessions to capture successes, challenges and action items for improvement.
- The DEM Duty Officer participated in the OPG radiological notification drill at Darlington. Established notification procedures (fax and phone calls) were confirmed during the drill.

Committees, Working Groups & Meetings

Committees, Working Groups and Meetings
Regional
Public Education
Nuclear Sector Working Group
Nuclear Exercise Meetings with Regional Departments and Local Area Municipalities
Durham and Toronto Office of Emergency Management Working Group
Durham Nuclear Health Committee
Provincial
NEMCC – Main Committee
NEMCC – Public Education Subcommittee
NEMCC – KI Working Group
NEMCC - Transportation
EPREV Provincial Working Group
Federal
EPREV Steering Group
CSA N1600 Technical Committee
CNSC Hearings
CNSC KI Pill Working Group
Exercise Unified Command
Steering Committee
Joint Exercise Planning Team
Scenario Development Working Group
Exercise Communications Working Group
Exercise Evaluation Working Group

Public Education & Awareness

Durham-Toronto-OPG Nuclear Public Education Plan

- Group met in April, June and December.
- The meetings allowed DEM to share our work plans, the results from year one of the nuclear preparedness survey, tactics for Emergency Preparedness week and the Public Alerting campaign, as well as our new campaign, At the Ready.
- DEM also participated at the OPG Open House in September and interacted with 412 individuals regarding personal preparedness.



Public Education & Awareness

Nuclear Preparedness Survey – Ontario Tech University

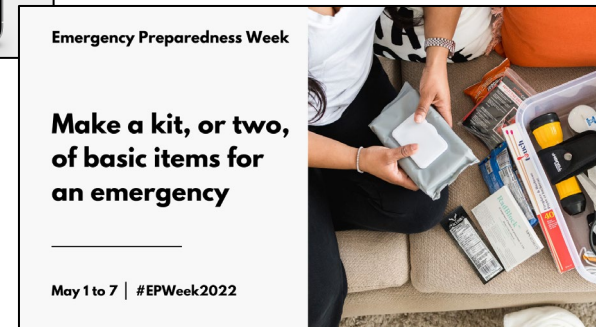
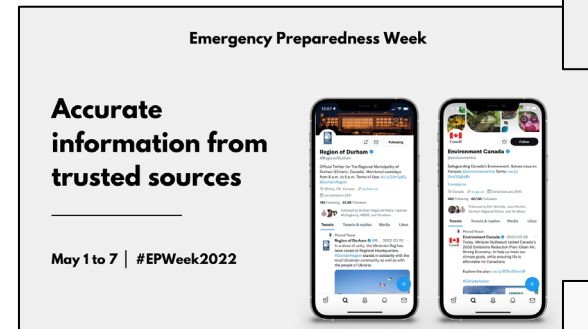
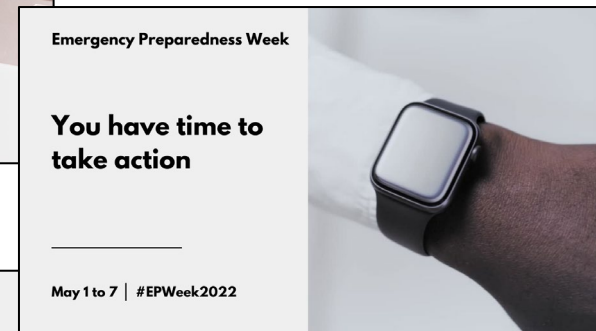
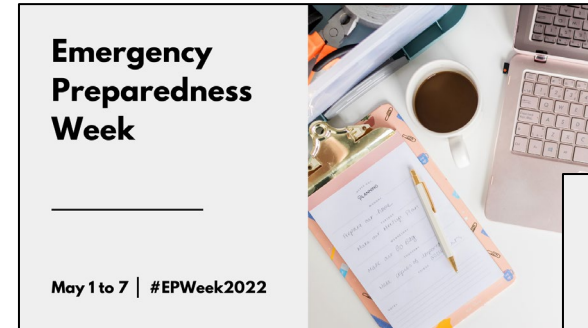
- The first survey ran from July 15 to September 14, 2021, with 2,532 participants.
- Respondents were primarily longstanding Durham residents (living in the region for more than 20 years) – 46%.
- Age range of 25 – 54; largest group of respondents 25 – 34.
- 2/3 of all respondents were female.
- The most represented municipalities were Oshawa (27%) and Clarington (22%), followed by significant representation in Ajax (17%), Whitby (16%) and Pickering (13%).
- Over 80% of respondents indicated they did not work for OPG or in a profession related to the nuclear sector.

Public Education & Awareness

Emergency Preparedness Week

Based on the survey results, Durham's tactics focused on the following:

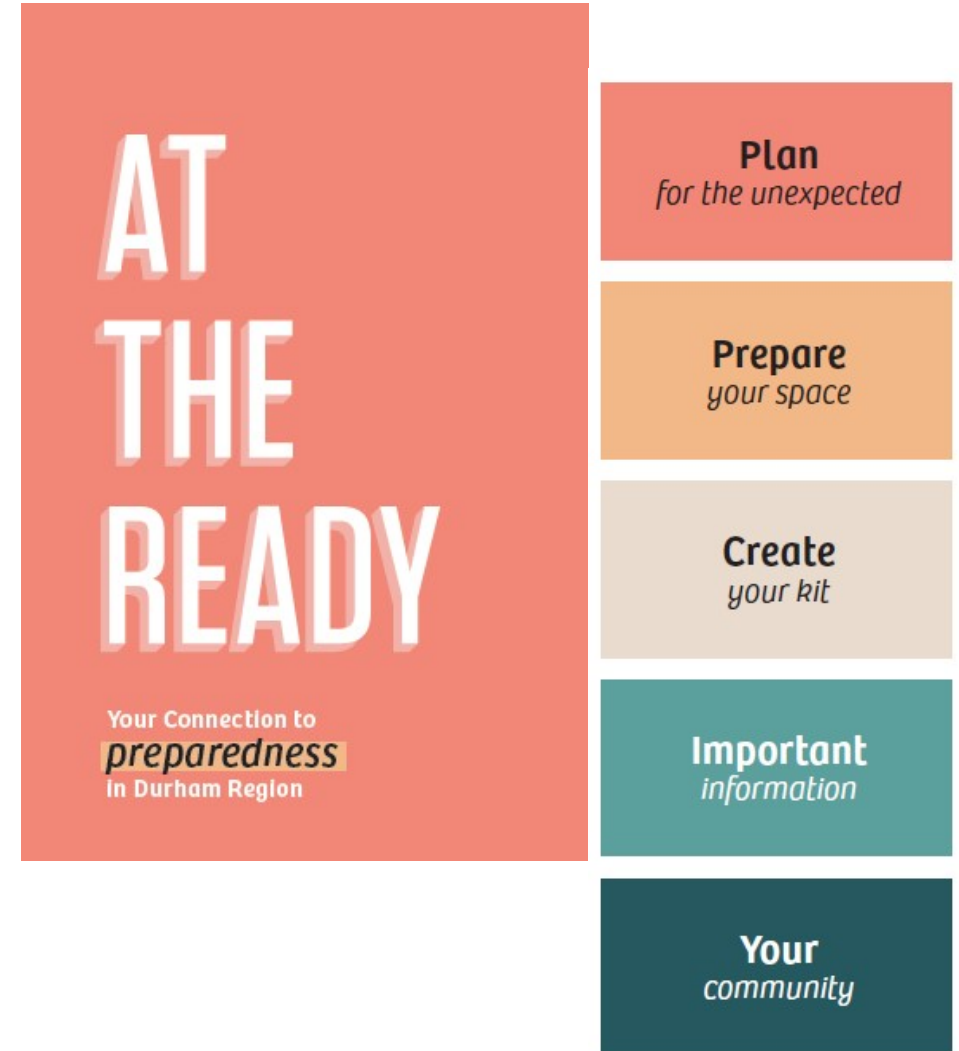
- Time to take protective action
- Ensure people know what to do when they are notified of an emergency
- Educate people on how they will be notified of a nuclear emergency
- Have a family meet-up spot out of town
- Have important documents backed up in a safe place



Public Education & Awareness

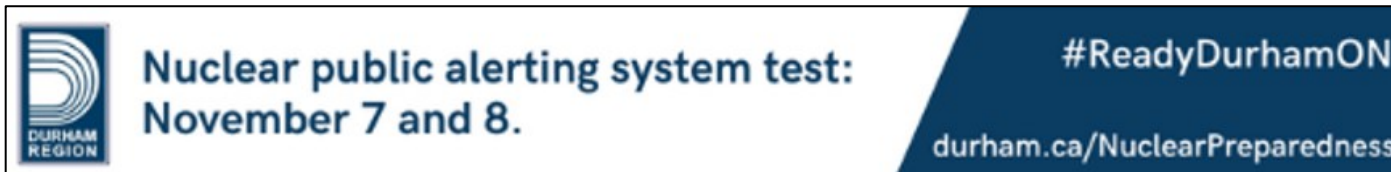
At The Ready

- As part of the survey, 1,600 respondents indicated they would like to receive our new EP material. They became our pilot group.
- There were another 1600 respondents from year 2 of the survey expressing interest. This group will be our soft launch before the full launch of the campaign in 2023.



Public Alerting Campaign

- Target audience for the campaign are people who live, work, play, or go to school within 10 km of the Darlington & Pickering NGS. Goal is to improve awareness of the testing and where to obtain more information.
- A few new tactics for the campaign included the following:
 - Used Metroland's vast digital ad network – various websites including, durhamregion.com and thestar.com, as well as various other web/mobile app properties.
 - myDurham311 – a knowledge article was written for call centre staff to ensure they were prepared with the information needed to address residents calling in.
 - The City of Pickering offered to help promote the tests and they supported with additional Curbex signs, Weather Network ads, web banner placement, and various digital community signs throughout the city.
 - Weather Network app ads – although not a new tactic, we experimented this year with new ad sizes to increase exposure.



Public Alerting - Indoor



Fall 2022 Indoor Alerting Test Results				
	Darlington		Pickering	
Zone	Number of Calls	Time	Number of Calls	Time
0 – 3 km	7	1 min:58sec	1845	37min:03sec
3 – 10 km	16,822	49min:40sec	29,328	59min:07sec
Total	16,829	51min:38sec	31,173	1hr:36min:10sec

The test was conducted on November 7 and the following is a summary of calls to the Region after the tests from November 7 to 18:

Summary of Calls to the Region – Public Alerting	
Issue	
Call back to the Region	15
Not received on cell phone	2
Caller ID	4
Other	2
Total Number of Calls	23

The number of calls to the Region have fallen drastically over the past few years. We attribute this to the success of using more focused tactics during our campaigns to reach our target audience.

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Public Alerting - Outdoor

- The test was conducted on November 8. The sirens were activated for one minute.
- DEM will continue to ensure semi-annual inspections and required work are completed to maintain the sirens system.



2. Plans for 2023

Program Component	Priorities
<p>Plans and Compliance</p>	<ul style="list-style-type: none"> • Annual review and revision of the Durham Nuclear Emergency Response Plan (DNERP) and supporting documents including Nuclear Emergency Support Functions, Standard Operating Procedures, Response Specific Instructions, Forms, Checklists and Memory Aids. • Provide feedback regarding the 2022 PNERP to the Province during the public consultation phase. • Implement the identified Regional requirements from the PNERP and the Implementing Plans. • Participate in the Ministry of Transportation led evacuation planning, including the ETE studies with KLD and development of the site specific plans for Pickering and Darlington. • Development of the Emergency Workers Centre Plan and supporting documents, including forms and checklists, in collaboration with internal and external stakeholders.
<p>Training</p>	<ul style="list-style-type: none"> • Develop and deliver the Intro to Nuclear course to all Regional staff that may have to respond to a nuclear or radiological emergency. • 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 based on lessons learned from the exercises. • Research and development of the Radiation Basics and Emergency Workers Centre training courses.

<p>Exercises and Drills</p>	<ul style="list-style-type: none"> • Plan and participate in the Pickering exercise in September. • 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. • Conduct DEM Duty Officer drills using nuclear scenarios.
<p>Committees, Working Groups and Meetings</p>	<ul style="list-style-type: none"> • The DEM team will continue to participate in nuclear committees and working groups and attend nuclear meetings.
<p>Public Education and Awareness</p>	<ul style="list-style-type: none"> • Continue to collaborate with the City of Toronto and OPG on the Nuclear Public Education Plan and have an integrated communications framework to amplify messaging, identify synergies, co-ordinate strategic decisions and share resources. • To further improve and enhance public education and awareness and through a nuclear awareness social research project within Durham to understand our communities and their knowledge of nuclear emergency preparedness (Year 3 of the 4-year City Studio survey in collaboration with Ontario Tech University). • Conduct the spring and fall public alerting campaigns for testing of the indoor and outdoor alerting systems. Investigate further communication strategies with stakeholders and differentiate messaging used in the 0 – 3 km zone and the 3 – 10 km zone. • Official launch of the At The Ready campaign to promote personal emergency preparedness. • Review and update of the Region’s Emergency Preparedness website to streamline the public’s access to information and resources.

<p>Public Alerting – Indoor System</p>	<ul style="list-style-type: none"> • Conduct semi-annual tests of the indoor alerting 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 indoor alerting system.
<p>Public Alerting – Outdoor System</p>	<ul style="list-style-type: none"> • Conduct semi-annual tests of the siren system. • Ensure all semi-annual inspections of the siren system are completed by the service provider, including ground maintenance. • Complete the approved required work: siren firmware update and continue implementation of the battery replacement plan.



Thank You

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