



2020 Year End Review

Durham Emergency Management



Year in Review – Program Components

- Plans & Compliance
- Training
- Exercises & Drills
- Committees, Working Groups & Meetings
- Public Education & Awareness
- Public Alerting
- EPREV & CSA
- KI Working Group
- PEOC Alert Ready Error Response
- Staffing & Team Structure Changes

Plans & Compliance - PNERP

- Conducted comprehensive reviews of the PNERP and the Implementing Plans. Results cross referenced with the CSA N1600 standards document.
- The completed compliance tool will be used to guide the annual work plan and priorities.
- The compliance tool will be made available to OPG in Q1 of 2021 and will serve to help prepare for the CNSC hearings for Darlington.

Plans & Compliance – DNERP & NESFs

- Review and revision of DNERP and its supporting documents to align with the PNERP and Implementing Plans.
- Tritium Liquid Emission Response Plan was updated after the drill in November to improve notification and activation processes.
- The Emergency Workers Centre Operating Procedures and Orono Arena Site Specific Plan have been updated in preparation for Exercise Unified Command.

Training

- Currently developing a general nuclear training session and an EWC specific training session for Regional staff in preparation for Exercise Unified Command.
- Upon successful implementation of the RAVE mass notification system used for indoor alerting, DEM staff provided training and hands-on assistance to all sub-account holders including other Regional Departments, the 8 local area municipalities and the City of Toronto.

Exercises & Drills

DEM participated in the following:

- 3-day Pickering exercise in October
- Darlington tritium drill in November
 - After-Action Reports are currently being completed and will be shared with OPG.
- Duty Officer drills were also conducted using both nuclear and non-nuclear scenarios

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 Nuclear Public Education Plan
 - Describes the overall strategy for compliance with the PNERP and EMCPA for public education related to nuclear emergency preparedness.
- Ontario Tech University Nuclear Awareness Social Research Project
 - 4-year project commencing in 2021 to survey residents to determine their level of knowledge and preparedness during a nuclear emergency.
 - Survey will determine public education campaigns and tactics, measure year over year changes in resident knowledge and compare the level of preparedness between geographic nuclear planning zones.
 - Survey questions, analysis methods and reports will be reviewed and approved by Durham Region and shared with OPG.

Public Education - Fall Public Alerting Campaign

- Target audience was people who live, work, play, or go to school within 10 km of the Darlington & Pickering NGS.
- Goal was to improve awareness of the testing and where to obtain more information.
- Campaign was very successful as overall impressions totalled 1,259,730 and included:
 - Social media: 85,926
 - Earned (public service announcements): 95,000
 - Paid (radio, print & social media ads): 1,078,804
- There were also 5,563 website pageviews.

Public Alerting - Indoor

- Successful transition to the RAVE system as of August 31, including all sub-account holders.
- Fall test was conducted on November 23.

RAVE System Test Results			
	Zone	Time	Number of Calls
Darlington	0 – 3 km	12min:25sec	55
	3 – 10 km	1hr:35min:52sec	33567
Pickering	0 – 3 km	23min:02sec	4700
	3 – 10 km	2hr:50min:22sec	52175

- A total of 90,497 listed landlines were called.
- Results were comparable to previous years.

Public Alerting - Indoor

Summary of Calls to the Dedicated Public Alerting Line (November 23 – 30, 2020)	
Number of Calls	Issue
2	Add landline number
3	Caller ID - unknown name
2	Cell phone - did not receive call on cell phone
	Delete message
2	Did not hear siren
2	Did not receive call
34	Hang-up
	Inaudible/low volume
6	Inquiry as to why they received a call
2	KI pills
1	Out of area
	Positive feedback
11	Other
65	Grand Total

- DEM receives and documents comments and concerns from residents on a dedicated public alerting phone line.
- Of the 65 calls, one was regarding Alert Ready.
- There were no calls to the 9-1-1 system.

Public Alerting - Outdoor

- After a lengthy RFP process, Williams Communications was awarded the contract as the new service provider for inspections and maintenance of the siren system.
- DEM developed a comprehensive audit form with the expectation that Williams completes a form for each siren.
- Inspection results and summary spreadsheets have been shared with OPG. OPG has been in attendance at the meetings with Williams and was involved in the RFP process.
- OPG will continue to be invited to the meetings to play a more consultative role with respect to the operation and maintenance of the siren system.



Public Alerting - Outdoor

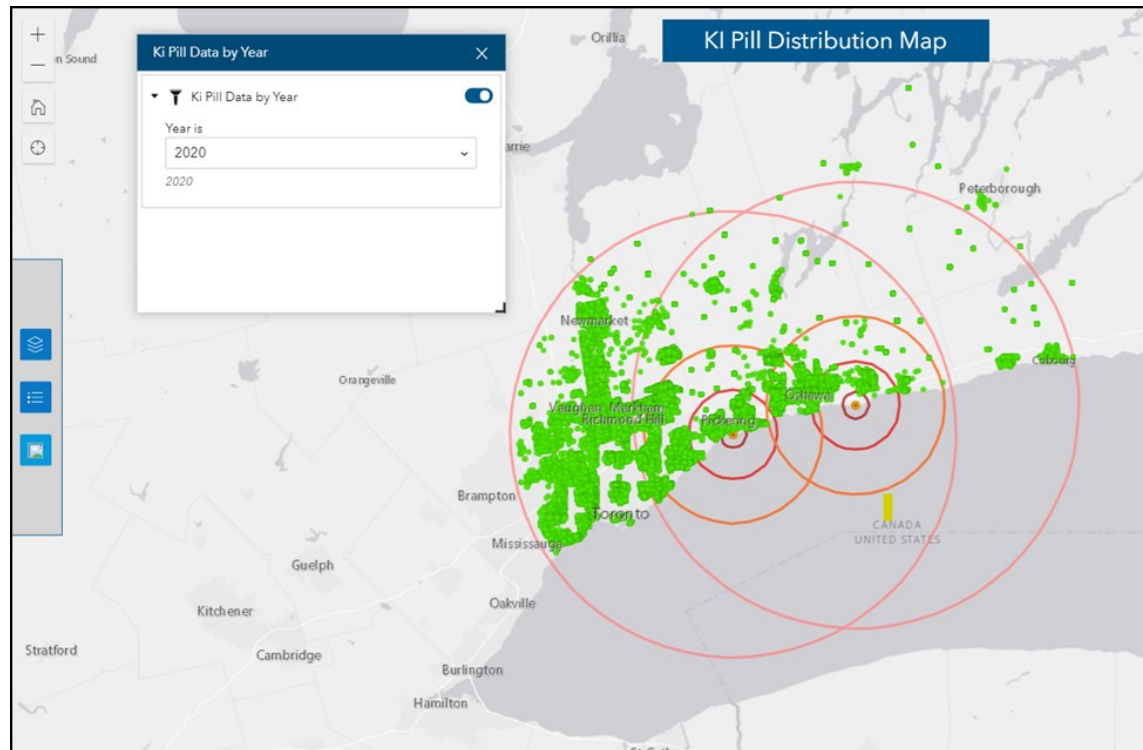
- Fall test was conducted on November 24 at Durham Regional Police Services and activated at 9:45 am for one minute.



EPREV & CSA

- DEM continues to support the implementation of the nuclear Emergency Preparedness Review (EPREV) Action Plan through participation in federal and provincial committees. DEM was recognized by the Canadian Nuclear Society with the John S. Hewitt Team Achievement Award for outstanding team achievement in the nuclear field in Canada for our contribution to the EPREV presentation to the CNSC.
- The CSA N1600 document establishes the criteria for emergency management program standards when addressing nuclear emergencies in Canada. Through membership on the N1600 Technical Committee, DEM participated in the disposition of public and industry comments and contributions for the 2021 edition of the CSA N1600.

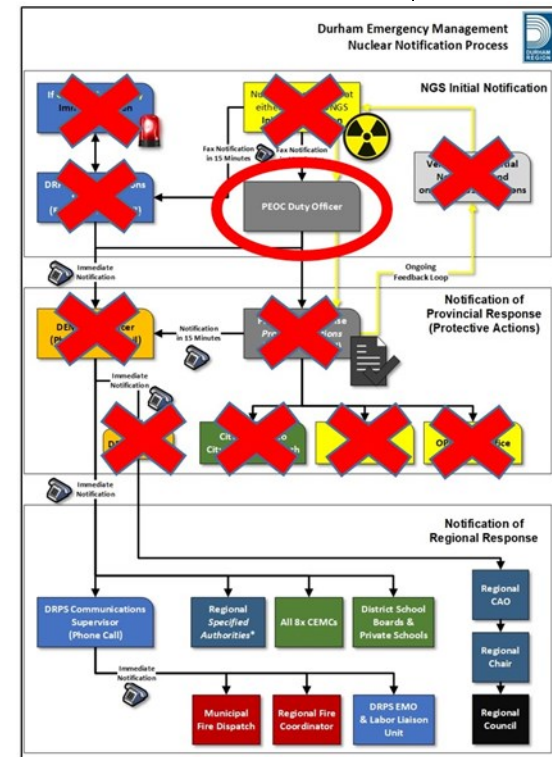
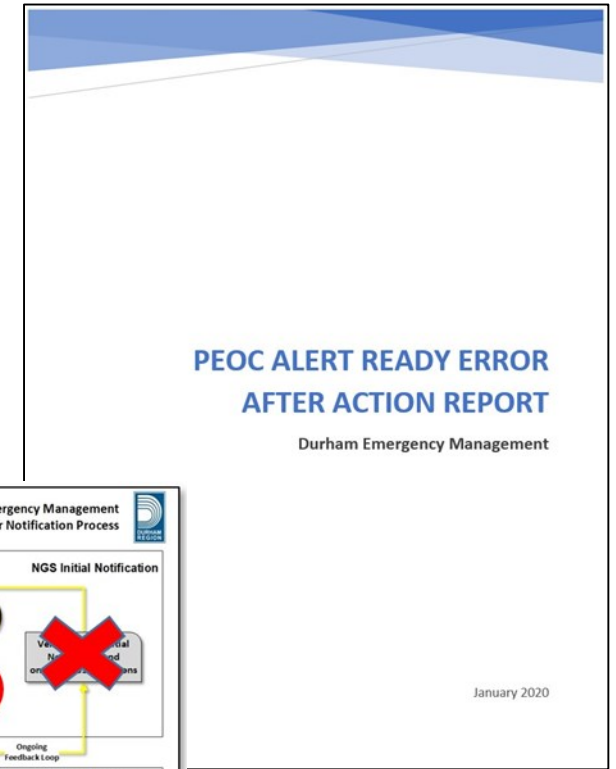
KI Pill Working Group



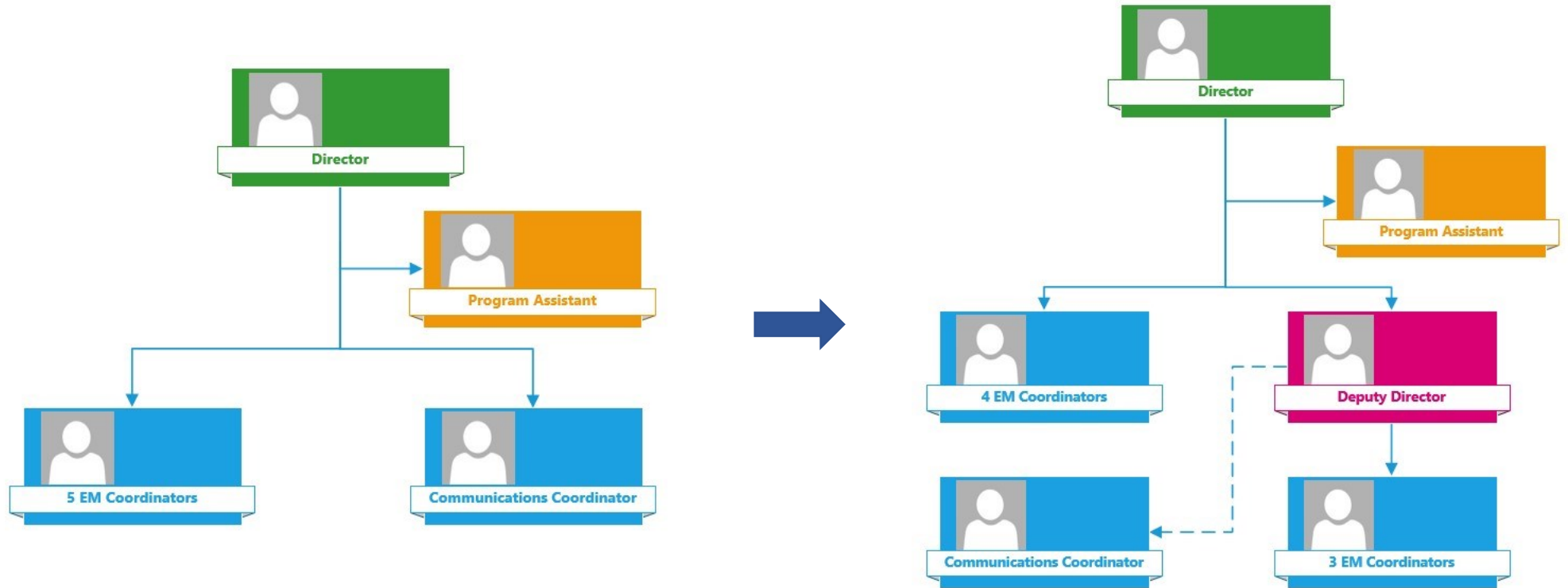
- Collaborated with IT to create the KI Distribution Web App which geo-codes every order made to preparetobesafe.ca.
- Results are available from 2015 to present and will be updated with data twice per year.
- Contributed to the report: Emergency Distribution of KI within the Ingestion Planning Zone of PNGS.

PEOC Alert Ready Error Response

- Immediate response by DEM DO and Director.
- Notifications made to RCG and local CEMCs.
- Worked with Communications to update the website, issue news releases and conduct media interviews.
- Following incident, DEM conducted a thorough review of the Regional response and identified strengths, challenges and action items in a formal After-Action Report.



Staffing & Team Structure Changes



2021 Priorities

Program Component	Priorities
<p>Plans and Compliance</p>	<ul style="list-style-type: none"> • Review the nuclear program work plan and provincial compliance tool and establish priorities for team members. The work plan and compliance tool will be shared with OPG in Q1 of 2021. • 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. • Implement the identified Regional requirements from the PNERP and the Implementing Plans. • Participate in the Ministry of Transportation led evacuation planning.
<p>Training</p>	<ul style="list-style-type: none"> • Deliver nuclear based training to exercise participants to prepare for Exercise Unified Command consisting of a half day of general nuclear training and a half day of EWC specific training. • Develop new training materials such as a Nuclear Emergency Operations Response Table and nuclear specific Incident Action Plan templates, forms and checklists.
<p>Exercises and Drills</p>	<ul style="list-style-type: none"> • Participate in Exercise Unified Command through a virtual REOC and EWC. • Assist other Regional Departments and local area municipalities with their exercise planning, development and evaluation. • Ensure all recommendations and action items in the After-Action Reports and Improvement Plans from the Pickering October 2020 exercise, Tritium Drill in November 2020 and Exercise Unified Command are completed. • Conduct DEM Duty Officer drills using nuclear scenarios.

2021 Priorities

<p>Committees, Working Groups and Meetings</p>	<ul style="list-style-type: none"> • DEM 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 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 (A 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.
<p>Public Alerting – Indoor System</p>	<ul style="list-style-type: none"> • Conduct semi-annual tests of the RAVE system. • Investigate the integrity of the landline data provided by the service provider and how to obtain better data if required. May require working with the Purchasing team for a Request for Information. • In collaboration with OPG, determine criteria used for performance metrics (e.g. definition of a successfully completed call, the number of attempted calls, etc.).
<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 work: radio frequency change, ATI firmware update, replacing grounding wires, obtaining surplus inventory of ATI parts and recycling of alert radios at Wesleyville.



Thank You

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