

Ministry of the Solicitor General

# Update on Nuclear Emergency Management in Ontario

Presented to:

**Durham Nuclear Health Committee**

Division: Emergency Management Ontario

Date: January 21, 2022



A brief look back at the past year in Nuclear Emergency Management and what is in store for this coming year.

# Emergency Management in Ontario



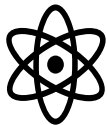
444 Municipalities



133 First Nations  
Communities



25 Ministries



18 Large  
Nuclear  
Reactors



**335 declared emergencies in 2020 with** provincial support coordinated by the Provincial Emergency Operations Centre (PEOC)



**~850 people (2020) and >3,700 people (2021) were evacuated/returned with the assistance of PEOC**



The PEOC was at an “Activation” level for **40% of 2020 with** staff deployed to support this highest response level



**~25 Requests for federal assistance have been coordinated during (2020-21) COVID-19 response**



**5 COVID-19 Emergency Alerts** issued in 2020-2021 (this does not include other public safety alerts)

# Canadian Emergency Preparedness Review (EPREV) 2021-2022

- The International Atomic Energy Agency (IAEA) undertook an Emergency Preparedness Review (EPREV) mission to Canada from June 3-13, 2019, led by a team of international experts.
- The purpose of this independent review was to assess Canada's level of preparedness for nuclear and radiological emergencies based on the IAEA safety standards and international best practices.
- As such, Emergency Management Ontario (EMO) and Health Canada will be resuming the EPREV Ontario Planning Committee in 2022 to continue additional work required to meet the recommendations of the review.



# Canadian Nuclear Laboratories (CNL) Risk Assessment

- Due to the shutdown of Chalk River's NRU reactor, a risk assessment of the site has been completed by CNL to assess ongoing risks.
- In order to determine whether a separate PNERP Implementing Plan is still required for the Chalk River site, EMO, CNL and Canadian Nuclear Safety Commission (CNSC) have been in discussions regarding the site's risk assessment.
- EMO expects the CNSC review of CNL's risk assessment documentation will be completed in 2022.
- The results of CNSC's work will help to determine whether there is continuing need for a PNERP Implementing Plan for this site.

# Drills and Exercises

- EMO continues to work with our nuclear partners to conduct drills and exercises.
- The Provincial Emergency Operations Centre (PEOC) Duty Office regularly participates in notification drills with the nuclear generating stations in Ontario and contiguous border states.
- EMO continues to be engaged with Ontario Power Generation (OPG) in Exercise Unified Command planning, scheduled for February 2022.
- EMO is in the process of planning with Bruce Power and stakeholders for the next full-scale exercise Huron Endeavour for October 2022.

# PEOC Scientific Section

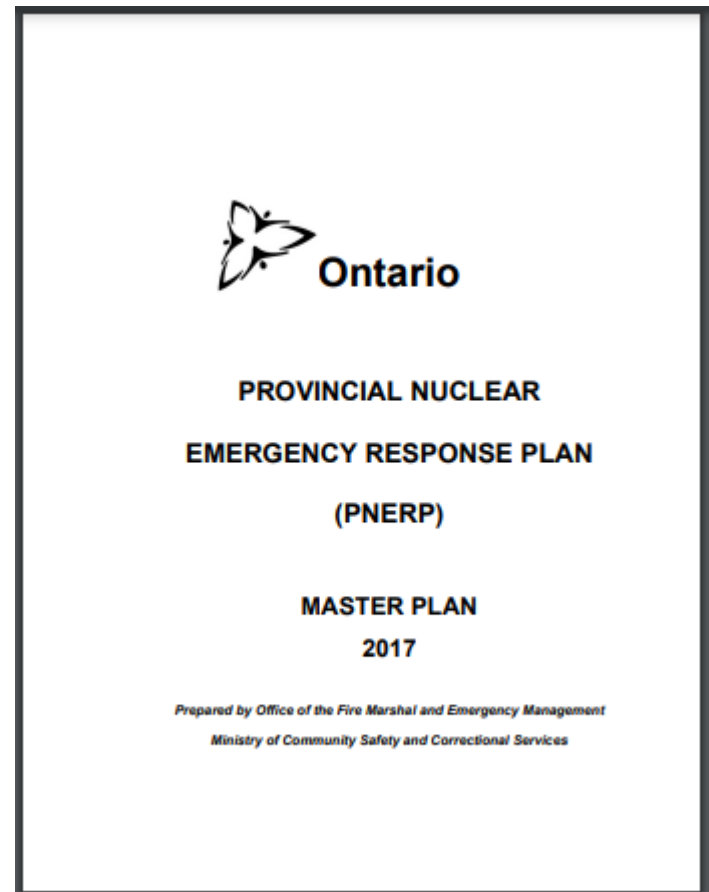
The Environmental Radiation and Assurance Monitoring Group (ERAMG) -  
Current and Ongoing Work:

- Ongoing ERAMG committee work (development of the Early Phase Ingestion Control Strategies: Water Control, Milk Control, Foodstuff Control, Produce and Crop Control, Pasture Control, Livestock/deadstock Control, Land Use Control).
- Continuing the development of the Scientific Section procedures – ERAMG.



# Provincial Nuclear Emergency Response Plan (PNERP) Master Plan 2022

- A comprehensive internal review of the PNERP Master Plan was undertaken in 2021.
- Plan updates include those related to:
  - The Technical Study report
  - Standards and guidance documents
  - EMO's detailed review of the plan
  - Progress made in collaborative, on-going planning and procedure development
  - Administrative edits.



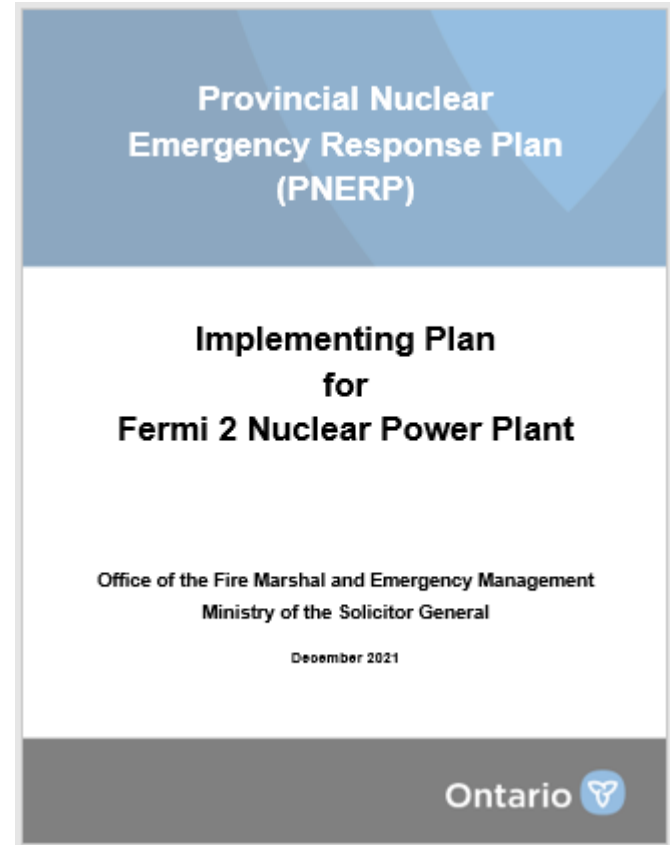


# Provincial Nuclear Emergency Response Plan (PNERP) Master Plan 2022 (cont'd)

- The Nuclear Emergency Management Coordinating Committee (NEMCC) members received the updated draft PNERP Master Plan for review in November of 2021 with a request to:
  - Seek and collate feedback from their internal emergency management teams.
  - Provide their feedback before the end of December 2021.
- Further consultations are planned for 2022.
- In order to meet the PNERP's 5-year review cycle, the end of 2022 is being targeted for Cabinet approval of the updated PNERP Master Plan.

# Fermi 2 PNERP Implementing Plan

- During 2021, EMO finalized the updates to the PNERP Implementing Plan for the Fermi 2 Nuclear Power Plant.
- This Implementing Plan is an update from its previous version following the 2017 PNERP Master Plan update and was approved by Order In Council on December 7, 2021.
- The finalized and approved implementing plan will be posted online early in 2022.



# EMO Hiring Updates

- EMO is currently hiring new staff to further enhance its capacity, including additional field, operations, exercise and program officers.
- As a whole, this increased capacity will benefit all types of response and planning, including those related to nuclear preparedness.
- EMO is also in the process of recruiting for new nuclear staffing positions. These positions include:
  1. 2 Senior Scientists (in addition to the current 2 positions)
  2. Director of Nuclear and Radiological Planning and Scientific Response.

# Thank you

## Contact Information

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# Questions?