



Ministry of Community Safety and Correctional Services

The Provincial Nuclear Emergency Response Plan (PNERP) Master Plan – 2017

PRESENTED TO: DURHAM REGIONAL COUNCIL MEETING

DATE: MARCH 21, 2018

Purpose

- To provide Council with an overview of the changes to the 2017 Provincial Nuclear Emergency Response Plan;
- To provide Council with a status update of the Pickering NGS and Darlington NGS Implementing Plans.

PNERP Master Plan Development

- The Provincial Nuclear Emergency Response Plan (PNERP) Master Plan was updated and approved in December 2017 after a public consultation and input from nuclear emergency response organizations.
- The Province conducted a public consultation and an advisory group, made up of national and international experts, was formed to assess comments and provide recommendations to the Minister.
- Feedback and recommendations were incorporated into the new plan; these updates make the plan more transparent and accountable, increase alignment with national and international standards, and enhance emergency planning.

Commitment to Future Public Consultations

- OFMEM revised the PNERP Master Plan to include new Administration requirements in Section 1.3
 - 1.3.3 sets out New 5 year plan review cycle
 - 1.3.4 states the purpose of the PNERP review process is to uphold the Province's commitment to transparency and accountability
 - 1.3.5 requires the PNERP review process to include consultations with stakeholders and the public
- Any review of PNERP protective action strategies or modifications to hazard descriptions must involve consultation with Designated Municipalities and impacted Municipalities as they are among the stakeholders referenced in clause 1.3.5

New Emergency Planning Zones

- *Automatic Action Zone*: The zone immediately surrounding installation reactor facility in which an increased level of planning and preparedness is undertaken and priority protective actions would be implemented, if necessary. (3km)
- *Detailed Planning Zone*: The zone around installation reactor facility within which detailed planning and preparedness shall be carried out for measures against exposure to a radioactive plume. (10km)
- *Contingency Planning Zone*: The zone around a reactor facility, beyond the Detailed Planning Zone, where contingency planning and arrangements are made in advance, so that during a nuclear emergency, protective actions can be extended beyond the Detailed Planning Zone as required to reduce potential for exposure. (20km)
- *Ingestion Planning Zone*: A larger zone within which it is necessary to plan and prepare measures to prevent ingestion of radioactive material. (50km)

New Contingency Planning Zone (CPZ)

- The CPZ is intended to be used as necessary in the event of very low probability, severe accident situations where the area affected could extend beyond the Detailed Planning Zone
- The CPZ does not require the same level or type of detailed arrangements as the Automatic Action Zone or Detailed Planning Zone, in so far as there are no default or pre-planned protective measures associated with the CPZ
- Response activities within the CPZ may occur in the event of a limited and localized radiological release and based on the results received from environmental radiation monitoring activities
- Requires identification of existing *response* centres that fall within the CPZ and development of a list of possible alternates located outside the CPZ

New Contingency Planning Zone Requirements

- Requires Iodine Thyroid Blocking (ITB) requirements consistent with those stipulated for the *Ingestion Planning Zone*
- Requires public awareness and education requirements consistent with *Ingestion Planning Zone* requirements
- **No** requirement for designation of additional emergency *response* centres (e.g., EOCs, EIC, Reception and Evacuation Centres, personal monitoring and decontamination facilities, etc.) beyond those designated for *Detailed Planning Zone*
- **No** additional public alerting and communications requirements beyond those already established for the *Detailed Planning Zone*
- Greater clarity has been set out in Annex C of the PNERP Implementing Plans for Pickering NGS and Bruce NGS

Next Steps

- Pickering NGS IP:
 - In the approval process now. The goal is to be published by June 26, 2018.
- Darlington NGS IP:
 - OFMEM is currently working on updating the IP to align with the 2017 PNERP Master Plan. The goal is to have complete with stakeholder consultation by Fall 2018.
- Technical Study:
 - MCSCS is in the procurement phase for contracting an independent vendor to conduct a technical study.
- CNSC Hearings:
 - OFMEM is participating in the Part 1 and Part 2 hearings for Pickering NGS.
- Evacuation Planning:
 - MTO is in the procurement phase for a vendor to develop UTMPs for all facilities in Ontario and Fermi 2.
- EPREV:
 - OFMEM is working with Durham and other nuclear stakeholders to prepare for the IAEA EPREV Mission in 2019.