

DURHAM NUCLEAR HEALTH COMMITTEE (DNHC) MINUTES

Location

Durham Regional Headquarters
605 Rossland Road East
Town of Whitby

Meeting

In an effort to help mitigate the spread of COVID-19, this DNHC meeting was a virtual meeting so that Presenters and Members could present and participate without meeting together in the Regional Council Chambers.

Date

January 21, 2022

Time

1:00 PM

Members that Participated

Dr. Robert Kyle, Durham Region Health Department (DRHD), (Chair)
Lisa Fortuna, DRHD
Mary-Anne Pietrusiak, DRHD
Dr. Kirk Atkinson, Ontario Tech University
Raphael McCalla, Ontario Power Generation (OPG)
Loc Nguyen, OPG
Veena Lalman, Public Member
Janice Dusek, Public Member
Susan Ebata, Public Member
Deborah Kryhul, Public Member
Jane Snyder, Public Member
Dr. David Gorman, Public Member
Dr. Lubna Nazneen, Alternate Public Member
Alan Shaddick, Alternate Public Member

Presenters & Assistants

Brian Devitt, (Secretary)
Richard Kinchlea, Provincial Emergency Management (EMO) (Presenter)
Kathy Bleyer, EMO
James Kilgour, Durham Emergency Management (DEM) (Presenter)
Stan Whatmough, OPG (Presenter)
Lee Casterton, Canadian Nuclear Safety Commission (CNSC) (Presenter)
Andrea Bellingham, CNSC (Presenter)
Lindsay Hamilton, OPG (Presenter)
Parisa Mahdian, OPG

Sendi Struna, DRHD
Helen Tanevski, DRHD
Dan McCord, DRHD
John Henry, Regional Chair and CEO

Regrets

Hardev Bains, Public Member

Dr. Robert Kyle opened the virtual meeting and welcomed everyone.

Dr. Robert Kyle mentioned that Observers who have questions concerning presentations today, should email or discuss their requests with James Kilgour, Director, Durham Emergency Management, at james.kilgour@durham.ca or 905-668-7711 extension 6260.

James will follow-up with each of the presenters after the meeting with the Observers' questions off-line to prevent any duplication of emails and responses. James will report back to Dr. Robert Kyle the outcomes of the questions he received.

1. Approval of Agenda

The Revised Agenda was adopted.

2. Approval of Minutes

The Minutes of the November 19, 2021, meeting were adopted as written.

3. Correspondence

- 3.1** Dr. Robert Kyle's office received a letter dated November 24, 2021, from A.J. Kehoe, DNHC Observer, concerning his questions and comments arising from the presentations at the November 19 DNHC virtual meeting.
- 3.2** Dr. Robert Kyle's office received an article dated December 23, 2021, from The Region of Durham News reporting Regional Council's approval on December 22, of Durham's Nuclear Sector Strategy.
- 3.3** Dr. Robert Kyle's office received a letter dated January 7, 2022, from A.J. Kehoe, DNHC Observer, concerning the 3-year Revision of the DNHC Terms of Reference and he provided 34 suggested changes.
- 3.4** Dr. Kyle's office received a report from James Kilgour, Director, Durham Emergency Management, dated January 14, 2022, concerning his follow-up of an Observer's question from presentations made at the September 17 DNHC virtual meeting.

4. Presentations

4.1 Progress report by the Provincial Emergency Management Office (EMO) concerning its significant Nuclear Emergency Preparedness Activities in 2021 and Priorities for 2022

Richard Kinchlea, Deputy Chief, Planning and Program Development, EMO, provided updates of its Nuclear Emergency Management programs in 2021 and its priorities for 2022.

Richard's presentation provided detailed information about EMO's activities and the highlights were:

Canadian Emergency Preparedness Review (EPREV) 2021-2022

- The International Atomic Energy Agency (IAEA) undertook an 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.
- 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 the 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 Provincial Nuclear Emergency Response Plan (PNERP) Implementing Plan is still required for the Chalk River site, EMO, CNL and 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 the CNSC's work will help determine whether there is continuing need for a PNERP Implementing Plan for the site.

Drills and Exercises

- EMO continues to work with its nuclear partners to conduct drills and exercises.
- The Provincial Emergency Operations Centre (PEOC) Duty Office regularly participates in notification drills with the NGSs in Ontario and border states.
- EMO continues to engage with OPG in the 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) and the current and ongoing work includes:
 - Ongoing ERAMG committee work includes development of the Early Phase Ingestion Control Strategies: Water Control, Milk Control, Foodstuff Control, Produce and Crop Control, Pasture Control, Livestock/deadstock Control and Land Use Control.
 - The PEOC Scientific Section will be continuing development of procedures for the ERAMG.

PNERP Master Plan 2022

- During 2021, a comprehensive internal review of the PNERP was undertaken.
- The Master 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, ongoing planning and procedure development
 - Administrative edits.
- The Nuclear Emergency Management Coordinating Committee (NEMCC) members received the updated draft PNERP Master Plan for review in November 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.
- 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 in Michigan.
- The Implementing Plan is an update following the 2017 PNERP Master Plan update and was approved by Order-In-Council on December 7, 2021.
- The finalized and approved Implementing Plan has now been posted online.

Hiring Updates

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

Richard Kinchlea or his associates will provide updates to the DNHC next year on the activities of EMO and significant changes to the PNERP.

Kathy Bleyer, Planning and Exercise Officer, EMO, can be contacted at kathy.bleyer@ontario.ca or 647-329-1161 and the EMO website can be accessed at <https://www.ontario.ca/page/emergency-management> for more information.

4.2 Progress Report by Durham Emergency Management (DEM) concerning its Significant Nuclear Emergency Preparedness Activities in 2021 and Priorities for 2022

James Kilgour, Director, DEM, provided a progress report on its significant nuclear emergency preparedness activities in 2021 and its priorities for 2022.

The highlights of James' presentation were:

Plans

- Reviewed the Durham Nuclear Emergency Response Plan (DNERP) and its supporting documents including the Nuclear Emergency Support Functions (NESFs) and Response Specific Instructions (RSIs) were conducted.
- Further refined the NESFs and RSIs to align with the developed Regional Emergency Operations Centre (REOC) and the Duty Officer Standard Operating Procedures (SOPs) and RSIs.
- These documents served as the basis for development of new training and response resources for Exercise Unified Command (ExUComm) in February 2022.
- Enhanced the operational response and the following resources were developed:
 - Nuclear Operations Response Table by providing more detail on the regional response at each declared provincial response level
 - REOC Nuclear Emergency Incident Action Plan (IAP) and Emergency Worker Centre (EWC) IAP
 - Nuclear specific emergency notification and staff recall scripts were developed and implemented into the mass notification system.

Training

- Developed a nuclear training package that will be distributed to the Regional Control Group (RCG) members, their alternates and Regional ExUComm participants.
- Provided exercise participants with general nuclear training and EWC specific training sessions in preparation for ExUComm.
- Provided training that will allow participants to focus on their specific roles and responsibilities, communication pathways and validate the current plans and resources including forms, checklists, and incident actions plans during the exercise.

- Continued to participate in Regional, Provincial, Federal and ExUComm committees, working groups and attend meetings related to nuclear emergency preparedness.

Exercises and Drills

- In February 2021, OPG invited DEM to virtually observe the Darlington NGS emergency drill.
- In September, planning began for the ExUComm exercise with both REOC and EWC as well as assisting other Regional Departments and local municipalities with their planning activities. The review of the Pickering exercise in 2020 was used by the DEM team as a foundation for training for the ExUComm exercise in 2022.
- The ExUComm exercise will be an opportunity for DEM to confirm notification processes, IMS organizational structures, communication pathways, processes and the use of forms and make improvements as needed.
- In December 2021, a nuclear discussion-based tabletop exercise was conducted with the RCG and their alternates focusing on the response actions required during a nuclear emergency.

Public Education and Awareness

- The Durham-Toronto Nuclear Emergency Education Plan is a 5-year overall development strategy for compliance with the PNERP and EMCPA for public education related to nuclear emergency preparedness. The plan outlines goals, objectives, communication strategies and communication methods.
- The Ontario Tech University Nuclear Awareness Social Research Project is:
 - A 4-year project in collaboration with the university that commenced in 2021 to survey residents to determine their level of knowledge and preparedness for a nuclear emergency.
 - The survey will determine public education campaigns, tactics and measure year over year changes in resident knowledge level of preparedness and compare the level of preparedness between geographic nuclear planning zones.
 - The established annual project tasks and deliverables will be completed by Ontario Tech University.
 - The survey questions, analysis methods and reports will be reviewed and approved by the DEM team.
- Public Alerting Campaign – Spring and Fall
 - The target audience was people who live, work, play or go to school within 10km of the Darlington and Pickering NGSS.
 - The goal was to improve awareness of the testing and where to obtain more information.
 - The spring campaign was shortened due to the COVID-19 vaccine roll out campaigns and ran from April 19 to May 6 and the fall campaign ran from September 27 to October 20, 2021.

- Public Alerting Campaign – Impressions

	Spring	Fall
○ Social Media	173,382	185,196
○ Earned (PSAs)	95,000	530,000
○ Paid (radio, print, media ads)	1,078,804	674,143
○ Total Overall Impressions	1,347,186	1,389,339

 - An impression is one view or listening of a piece of content.
 - Impressions are a proxy method for awareness and a standardized way to measure shared, earned, paid and owned media.
 - DEM also reached out to Boards of Trade and Chambers of Commerce and for fall campaigns, ads were placed with the Weather Network and Spotify to reach more people in a digital format.
 - DEM had 5946 pageviews for the spring campaign and 3800 pageviews for the fall campaign.

Public Alerting – Indoor

- On May 3, the annual spring test was conducted for the 0-3km and 3-10km zones around each NGS.
- On October 18, the annual fall test was conducted for the 0-3km and 3-10km zones around each NGS.
- Darlington had 33,622 telephone landlines called in the spring test and 24,363 in the fall test.
- Pickering had 90,497 landlines called in the spring test and 63,691 in the fall test.
- After the tests, the DEM team received and documented comments and concerns from residents on a dedicated public alerting telephone line.
- DEM found the number of calls to dedicated phone lines have fallen drastically over the past few years and it is due to more focused tactics to reach the target audience regarding tests.

Public Alerting - Outdoor

- On May 4 and October 19, around each NGS, the spring and falls tests were conducted at 10:00am with sirens activated for approximately one minute for each test.
- DEM continues semi-annual inspections of siren locations to ensure required work is completed to keep the siren system well maintained.

For 2022, James explained DEM's priorities.

Plans

- Review the Draft 2022 PNERP and provide feedback to the province.
- Review and revise the DNERP and supporting documents including Nuclear Support Functions, Standard Operating Procedures, Response Specific Instructions, forms checklists and memory aids based on the 2022 PNERP.

- Implement identified regional requirements from the PNERP and its Implementation Plans.
- Participate in the Ontario Ministry of Transportation led evacuation planning.

Training

- Deliver nuclear based training to exercise participants to prepare for the ExUComm exercise in February consisting of general nuclear training and EWC specific training.
- Revise training materials and resources such as a Nuclear Emergency Operations Response Table and nuclear specific Incident Action Plan templates for the REOC and EWC based on lessons learned from the February exercise.

Exercises and Drills

- Participate in ExUComm exercise in February through a virtual REOC and EWC.
- Assist Regional departments and local area municipalities with their exercise planning, development and evaluation.
- Ensure all recommendations and action items that will be noted in the After-Action Reports and Improvements Plans from the exercise are implemented.

Committees, Working Groups and Meetings

- The DEM team will continue to participate in nuclear committees, working groups and attend nuclear related meetings.

Public Education and Awareness

- Continue to collaborate with the City of Toronto and OPG on the Nuclear Public Education Plan to have an integrated communications framework to amplify messaging, identify synergies, coordinate strategic decisions and share resources.
- Develop and launch the second annual survey within Durham Region to understand our communities and their knowledge of nuclear emergency preparedness. This is part of a 4-year City Studio research project in collaboration with Ontario Tech University.
- Conduct 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 0-3km zone and 3-10km zone.

Public Alerting – Indoor System

- Conduct semi-annual tests of the mass notification/auto dialer system.
- Continue to improve the integrity of the landline data provided by the service provider and how to obtain better data for future tests.
- Continue to test and update nuclear notification and activation scripts for use in the system.

Public Alerting – Outdoor System

- 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.
- Continue with the approved upgrades and maintenance to the siren system for Darlington and Pickering NGSSs.

James Kilgour or his associates will update the DNHC next year on the progress of its nuclear emergency preparedness plans and activities in Durham Region. More information is available at the DEM website at durham.ca/dem.

4.3 Progress report by OPG concerning its Significant Nuclear Emergency Preparedness Activities in 2021 and Priorities in 2022

Stan Whatmough, Senior Manager (Acting), Enterprise Emergency Management, provided a detailed progress report concerning the significant nuclear emergency preparedness activities in 2021 and priorities for 2022.

Stan provided an overview of Enterprise Emergency Management (EEM) programs and its strategies.

- Driven by the requirements for compliance with the CNSC document RegDoc 2.10.1 and the PNERP.
- Implement and maintain the emergency response capability within OPG Nuclear.
- Maintain the facilities and equipment of the OPG Nuclear Emergency Response Organization (ERO) and procedures.
- Oversee ERO training and qualification program of staff that included 1500 ERO and 54 unique qualifications.
- Conduct drills and exercises to confirm effectiveness of emergency plans involving the CNSC, Province of Ontario, Durham Region, City of Toronto, etc.
- Conduct assessments to demonstrate the ERO program performance and continued improvement is evaluated by Internal Self Assessment with nuclear oversight; and by External Organizations including the CNSC, National Safety Review Board, WANO, IAEA, EPREV, etc.

Stan explained the three EEM Pillars for its programs.

1. Program Excellence

Strengthen OPG's social license through a robust emergency preparedness program which is integrated with station goals, to ensure the protection of employees, the public and the environment.

2. Perfect Practice

Maximize the Emergency Response Organization's effectiveness through drills and exercises that are realistic, challenging and evaluated against a high standard.

3. Constant Improvement through Innovation

Develop a culture of continually challenging the status quo to improve the emergency preparedness program through a cycle of: Ideation, Innovation, Integration and Iteration.

Stan provided the 2021 EEM program activity highlights.

- Enterprise Emergency Management: 'Nuclear Emergency Preparedness' integrated corporate 'Emergency Management' into the emergency preparedness team creating the new 'Enterprise Emergency Management'.
- Stan explained this integration will provide EEM with enhanced oversight for Business Continuity, the Power Grid and Crisis Management such as COVID-19 protocols.
- Drills and Exercises successfully completed:
 - 11 evaluated drills
 - 1 Liquid Emergency Response Plan drill
 - 1 Transportation Emergency Response Plan drill
 - 22 Self Assessed crew practices
 - 33 'Emergency Shift Assistant' proficiency sessions who work with the Shift Managers at Pickering and Darlington.
 - Gridex VI – cyber and physical attack scenario on the North American electrical grid.
- Potassium Iodide (KI) Pills: Distributed 285,000 KI pills through the preparetobesafe.ca to request pills, and the New Neighbours programs.
- Innovation: Decommissioned NETS and increased the capability with mobile and satellite phones.
- COVID-19 Protocols: Enhanced cleaning procedures and staff protection protocols within the ERO, virtual response guidelines, cross trained ERO to build increased depth, IDIRT and CMCC virtual activation.
- International Evaluation: Pickering WANO evaluation highlighted the strength of OPG's EEM program. "The Remote evaluation of Drills" was recognized by WANO as an industry leading strength allowing OPG to maintain ERO proficiency at a time when the industry saw a decline.

Stan explained the 2022 EEM Priorities.

- Drills and Exercises:
 - Continue to implement a full drill schedule with 5 at Darlington and 6 at Pickering including new challenging drill scenarios
 - Continue the use of 'Remote Evaluation' and increased 'Self Evaluation'
 - ExUComm is planned for February 23 to 25 at Darlington Nuclear and the link is: <https://www.youtube.com/watch?v=PGTgxXAjSps>
- Partnerships: Maintain strong partnerships with external partners through regular discussion, alignment and MOUs.
- External evaluation: Continued evaluations by CNSC site visits and audits, with an insurance audit in February and the WANO Corporate evaluation in March.

- Technology: WebEOC upgrades, and enhanced use of communication with satellite and 3g. mobile phones.
- Resourcing: Building proficiency of several new staff to the department and to improve organizational agility.
- New Nuclear: Supporting OPG's planned SMR initiative at Darlington with EEM staff and expertise.
- ERO Rationalization: Is a project to streamline levels of ERO staffing and facilities.

Stan Whatmough or his associates will provide the DNHC with a progress report next year on OPG's nuclear emergency preparedness activities. More information is available at the OPG website www.opg.com/nuclearsafety.

4.4 Progress report by the CNSC concerning its Potassium Iodide (KI) Pill Working Group

Lee Casterton, Senior Regulatory Program Officer and Chair of the Working Group; and Andrea Bellingham, Emergency Management Program Officer, CNSC, provided a joint progress presentation on its KI Pill Working Group.

Lee provided an overview of the KI Pill Working Group.

Background

- In June 2018, at the CNSC Public Hearing on the Pickering licence renewal, intervenors raised concerns on KI pill pre-distribution and distribution in an emergency in the Ingestion Planning Zone (IPZ).
- The Pickering IPZ is 20 to 30km in subzones 1 to 8; and 30 to 50km in subzones 9 to 16.
- CNSC staff committed to form the KI Pill Working Group to provide clarity on the roles and responsibilities for KI distribution in the IPZ.
- In January 2019, the CNSC Commission released its Detailed Record of Decision for the Pickering licence renewal and included the CNSC staff commitment and additional direction to the Working Group.

Terms of Reference

- Were drafted following the Pickering licence renewal Hearing.
- Public comment period on the draft was held from December 24, 2018, to February 14, 2019, and 17 submissions were received.
- Revisions were made based on public comments received and Commission direction.
- May 14, 2019, the Terms of Reference were signed by CNSC, OPG, Ontario Ministry of Health and Ontario Office of the Fire Marshal and Emergency Management, formally enacting the Working Group.

Working Group Membership

- Signatories to the Terms of Reference:
 - CNSC

- Ontario Ministry of Health
 - Ontario Office of the Fire Marshal and Emergency Management
 - OPG
- Public Health Units and Emergency Management Coordinators:
 - Durham Region
 - City of Toronto
 - Peel Region
 - Simcoe Muskoka
 - Kawartha Lakes
 - Peterborough County
- Health Canada

Lee explained the Mandate of the Working Group is to be completed in two phases.

- Phase I: To fulfill the commitment to the Commission to provide clarity the existing plans and associated responsible authorities for distributing KI pills in the IPZ in the event of an emergency at the Pickering NGS.
- Phase II: To fulfill the direction from the Commission in the detailed Record of Decision to:
 - Determine feasibility of pre-distribution of KI pills to all schools within the IPZ
 - Establish clear and detailed plans for distribution of KI pills throughout the IPZ in the event of an emergency at Pickering.

CNSC Website

- On June 14, 2019, a dedicated webpage for the Working Group was launched to provide:
 - Background information
 - Terms of Reference
 - Project milestones
 - CNSC Advisory Committee
 - Quick facts of KI pills
- Additional documentation will be added on an ongoing basis.

Advisory Committee

- In November 2018, CNSC staff made a commitment to the Commission to form an Advisory Committee.
- Purpose of the Advisory Committee is to provide independent advice to the CNSC staff on deliverables of the Working Group and its input on topics discussed at the Phase I and Phase II workshops.
- CNSC staff considered all advice and input from the Committee.
- Operating procedures were developed to clarify the purpose, membership, engagement opportunities and conduct of the Committee activities.
- Membership of the Advisory Committee includes:
 - Canadian Environmental Law Association

- Toronto District School Board
- Toronto Catholic District School Board
- Municipality of Kincardine
- Bruce Power
- McMaster University

Andrea provided detailed information on recent progress of the Working Group.

Phase I Workshop

- In November 2019, a two-day Workshop was held with all members present.
- The Draft Phase I Report was developed following the Workshop.
- The objective of the Workshop was to gather the information necessary to achieve the mandate of Phase I.
- Draft Phase I Report was developed and concurrence on the Report was delayed due to COVID-19 but concurrence was later achieved in December 2020.

Draft Phase I Report Topics

- Nuclear emergency management framework in Canada.
- Provides information on KI pills and pre-distribution.
- Provides current associated roles and responsibilities for KI pill distribution.
- Public resources relating to KI pill distribution.
- Concept of Operations for KI pill emergency distribution to 50km.

Phase I Report Conclusions

- Roles and responsibilities are clearly defined in current plans.
- The Report provides clarity on the existing plans and associated responsible authorities for emergency distribution of KI pills.
- A flexible concept of operations exists for emergency distribution.
- Public awareness and information campaigns are being conducted and improvements have been identified.
- In addition to the mandate for Phase II, the Working Group identified the following topics for further consideration:
 - Public awareness and education in designated and non-designated municipalities
 - Pre-staging of the centralized stockpile to municipalities in the IPZ
 - Development of pre-existing emergency communications strategy for use during an event.

Phase I Report Public Review

- The KI pill Working Group's Draft Report was open for consultation from April 6 to July 5, 2021, through CNSC 's e-consultation page at www.letstalknuclearsafety.ca.
- 16 comments were received from 3 reviewers and the key themes raised were:
 - Information on how new residents receive KI pills

- Clarification of definitions and terminology
- Acknowledgement of Treaty Lands where the PNGS is located.

Indigenous Engagement and Participation

- Indigenous engagement is an important consideration in CNSC activities and the CNSC will ensure opportunities for input are provided.
- August 2019, notification letters were sent to Indigenous Nations and communities.
- April 2021, the draft Phase I Report was sent to Indigenous Nations and communities.
- The Curve Lake First Nations submitted comments on the draft Phase I Report that included:
 - Impact to non-human species during an emergency
 - Communications to Indigenous communities during an emergency
 - Provision of information, awareness and education related to KI pills
 - How can Indigenous communities outside the IPZ obtain KI pills.

CNSC Advisory Committee Workshop Meeting

- On November 19, 2021, the Advisory Committee Workshop was held and the objectives of the Workshop were to:
 - Solicit comments on the Phase I Report
 - Discuss comments received during the public review period
 - Determine if the committee agreed that the Report meets the mandate of Phase I.
- Members did not request specific changes to the Phase I Report.
- Members provided valuable input on further topics for consideration as part of Phase II of the Working Group.
- Input on further topics for consideration included:
 - Information on the actions taken by municipalities in support of emergency distribution of KI pills
 - Need for availability of information and medical advice for individuals who cannot take KI pills and how it differs from other populations
 - Impact on timelines and capabilities for KI pill distribution from a severe beyond design basis accident

Next Steps

- The Commission is proceeding on the Phase I Report planned for January 26, 2022.
- The Phase I Report will be finalized and published following the Commission meeting and made available on the Working Group webpage.
- The Working Group will commence work on the Phase II.
- A Phase II Report will be prepared by the Working Group and undergo public review and be presented to the Commission.

Lee Casterton and Andrea Bellingham or their associates will keep the DNHC updated next year on the progress of the CNSC Potassium Iodide Pill Working Group.

For more information, the CNSC website is [nuclearsafety.gc.ca](https://www.nuclearsafety.gc.ca) and the Working Group website is: <https://www.nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/potassium-iodide-pill-working-group.cfm>.

5. Communications

5.1 Community Issues at Pickering Nuclear

Lindsay Hamilton, Manager, Stakeholders and Corporate Affairs, Darlington Nuclear, OPG, provided an update on Community Issues at Pickering Nuclear and the highlights were:

- Pickering Units 1, 4, 6, 7 and 8 are operating at or close to full power.
- Pickering Unit 5 is in a planned maintenance outage.
- On December 16, 2021, Pickering issued a formal letter of intent to the CNSC with respect to the operations of Units 5-8 until 2025.
- The current 10-year operating licence granted by the CNSC permits commercial operations until the end of 2024. OPG plans to take Units 1 and 4 out of service at the end of 2024.
- January 20, 2022, marks the launch of the 'Bring Back the Salmon' program that OPG has sponsored since 2011 working with local conservation authorities that release salmon into the Duffins Creek system. The 10-week program provides students of all ages an educational opportunity using weekly videos and hands-on activities.
- The latest edition of the OPG newsletter *Neighbours* was distributed in December and the next edition will be in the second quarter of 2022.

Carrie-Anne Atkins, Manager, Stakeholders and Corporate Affairs, Pickering Nuclear, OPG, can be reached at (905) 839-1151 extension 7919 or by e-mail at carrie-anne.atkins@opg.com for more information.

5.2 Community Issues at Darlington Nuclear

Lindsay Hamilton, Manager, Darlington Nuclear, Stakeholders and Corporate Affairs, OPG, provided an update on the Community Issues at Darlington Nuclear and the highlights were:

- Darlington Units 1 and 2 are operating at close to full power.
- Darlington Unit 3 is undergoing refurbishment and Unit 4 is in a planned maintenance outage.
- Darlington Unit 3 refurbishment team successfully completed the first combined Pressure and Calandria Tube removal on a CANDU reactor. The disassembly phase of Unit 3 is complete, and the reassembly phase has begun.

- The Darlington Refurbishment Project Team is preparing Unit 1 for refurbishment that will begin in February 2022.
- On December 1, 2021, OPG announced it will work with GE Hitachi Nuclear Energy to deploy its planned SMR at the Darlington new nuclear site. Darlington NGS is the only site in Canada currently licensed for a new nuclear build.
- OPG and GE Hitachi will collaborate on the SMR engineering, design, planning, preparing for licensing and permitting materials for the site to construct the 300 SMR projected to be completed by 2028.
- The latest edition of the OPG newsletter Neighbours was distributed in December and the next edition will be in the second quarter of 2022.

Lindsay Hamilton, Manager, Stakeholders and Corporate Affairs, Darlington Nuclear, OPG, can be reached at 905-914-2457 or by e-mail at lindsay.hamilton@opg.com for more information.

5.3 Corporate Community Issues

Lindsay Hamilton, Manager, Stakeholders and Corporate Affairs, Darlington Nuclear, provided an update of OPG's community issues and the highlights were:

- OPG provides an essential service of generating electricity for the province, so unbroken service must be maintained.
- On January 3, 2022, when the new COVID-19 provincial 'stay-at-home' order was issued, OPG once again revised its Work from Home strategy that requested all employees to work from home if they were able to do so.
- OPG worked with the DRHD by setting up a covid-19 vaccination clinic at the Darlington Energy Complex for its employees and family members.
- On January 21, 2022, OPG representatives will provide an update to the Williams Treaties First Nations on the following topics:
 - Cobalt 60 licence amendment to the CNSC
 - Darlington Waste Management Facility re-licensing to the CNSC
 - Pickering 2025, End of Commercial Operations
- OPG plans to continue the Virtual Power Kids program that will target educators and students with the opportunity to explore science, biodiversity, art, and indigenous traditions.
- OPG staff raised approximately \$10,000 to support the Durham Regional Police Services food and toy drive.

6.0 Other Business

6.1 Topics Inventory Update

Robert Kyle indicated the Topics Inventory will be revised to include the presentations made today.

6.2 Future Topics for the DNHC to Consider

Dr. Robert Kyle indicated the next DNHC meeting, scheduled for April 22, 2022, and the theme will be *Progress reports concerning Nuclear Waste Management in Durham Region* that will likely include:

- Progress report by OPG's Darlington New Nuclear Project Team concerning its planned development of a SMR at the Darlington new nuclear site.
- Progress report by the Nuclear Waste Management Organization concerning its Site Selection Process for the Long-Term Management of Used Nuclear Fuel in Canada.
- Progress report by OPG's Sustainability Services Division concerning its stewardship of nuclear materials and by-products of nuclear energy.

6.3 Scheduled DNHC Meetings in 2022

- April 22
- June 17
- September 16
- November 18

6.4 Proposed revisions to the Draft DNHC Terms of Reference (TOR)

Brian Devitt, Secretary to the DNHC, provided an update of the proposed revisions to the Draft DNHC TOR. At the November 19 DNHC meeting, Dr. Robert Kyle stated that we had begun the initial 3-year review of the TOR. The review identified 3 organizations that attend and participate in DNHC meetings that needed their official names updated.

Dr. Kyle requested the DNHC Members to also review the draft TOR that included the 3 proposed name changes, and to provide any additional changes to Brian by January 7, 2022.

Brian included the 3 proposed name changes in the Draft DNHC TOR document, dated November 2021. On November 29, the draft TOR and the November 19 Draft Minutes were emailed to the DNHC Members and Observers.

Brian reported that the DNHC Members' feedback by January 7 did not include any additional changes. Therefore, the Draft TOR document, dated November 2021, includes all the changes suggested by DNHC Members at this time.

7. Next Meeting

Location

Durham Region Headquarters
605 Rossland Road East, Town of Whitby

Time

1:00 pm Meeting from the Regional Council Chambers

Date

April 22, 2022

8. Adjournment

2:55 PM