

**Pickering Nuclear Generating Station
Community Advisory Council
and
Darlington Nuclear Generating Station
Community Advisory Committee**

**Pickering Nuclear Information Centre
Meeting Minutes, April 17, 2018**

Highlights

Site Update

Randy Lockwood presented an update on the operating status of Pickering Nuclear's six active units, the station's successful procedure during the severe weather over the weekend, and OPG's participation in Part 1 of the CNSC hearing on the renewal of Pickering Nuclear's licence to operate.

Security Exercise at Pickering Nuclear

Rebecca Kelly reviewed a security exercise held at Pickering Nuclear on March 22. She responded to Council questions about the exercise and security procedures in general.

Public Affairs

Analièse St. Aubin talked about Pickering and Darlington stations' involvement in recent and forthcoming community activities. Earth Day activities at Pickering, a new pollinating project at Darlington, a federal announcement at Darlington of a co-op wage subsidy program for university students, and information sharing sessions and site tours were among the items mentioned.

Exercise Unified Control Video

Steve Lesiuta presented a video on the major emergency drill held on Dec. 6 and 7, 2017. The exercise was based on a Pickering Nuclear scenario.

Provincial Nuclear Emergency Response Plan (PNERP)

Dave Nodwell, Deputy Chief, Office of the Fire Marshal and Emergency Management, talked about the PNERP Master Plan 2017. Council members asked questions about sharing the Master Plan with small businesses and hospitals, whether the Plan provides greater clarity than previous versions, how the Plan relates to non-nuclear emergencies, and other matters.

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Pickering CAC:

John Earley
Kristin Hall
Bill Houston
Donald Hudson
Greg Lymer
Pat Mattson
Sean McCullough
Cody Morrison
Dan Shire
John Stirrat
Ralph Sutton
Anna-lisa Tersigni

Darlington CAC:

Jim Boate
Steven Cooke
Mary Novak

OPG:

Scott Burns
Rebecca Kelly
Jennifer Knox
Steve Lesiuta
Randy Lockwood
Analiese St. Aubin

Regrets:

Jim Dike
Donna Fabbro
Keith Falconer
Mary Gawen
Tim Kellar
Dinesh Kumar
Zachary Moshonas
Moe Perera
Helen Shamsipour
Kira Shan

**Office of the Fire Marshal and
Emergency Management:**

Dave Nodwell

PDA:

Francis Gillis
John Vincett

Topic #1: Correspondence

Council Facilitator John Vincett flagged two Nuclear Waste Management Organization items:

- Implementing Adaptive Phased Management 2018 to 2022, and
- The NWMO 2017 Annual Report

Both are available on line at www.nwmo.ca/reports. There is also information on the site about obtaining a hard copy.

Topic #2: Review of Minutes

The minutes of the CAC meeting of March 20, 2018 were approved without changes.

Topic #3: Site Update

Senior Vice President Randy Lockwood presented a site update:

- OPG has a procedure for severe weather. This procedure worked without incident during the ice storm over the weekend.
- Units 1, 5, 7, and 8 are operating at full power. (Units 2 and 3 are in enhanced safe lay-up.)
- Unit 6 is in Day 102 of a planned outage. The unit has just passed a vacuum building pressure test (done every six years). OPG is now working toward reconfiguring the system and startup.
- Unit 4 is in a planned outage that began on March 4. Good progress is being made on inspection and maintenance. OPG will partially drain down the reactor cooling system for maintenance, which will take place from April 25 to mid-June.
- Part 1 of the CNSC hearing on the renewal of Pickering Nuclear's licence has just been completed. This part of the hearing took place in Ottawa. Last fall OPG completed a series of deliverables to the Commission related to the licence application. Station staff tested equipment and reported on strengths, gaps and possible improvements. OPG developed an implementation plan for closing the gaps, provided documents and made a presentation to the hearing on April 4.

Randy added further details:

- In its presentation to the CNSC, OPG made a commitment to remain publicly transparent. Pickering Nuclear has a very good story to tell. The station has made significant investments to improve and modify all six active units on site. OPG staff continues to be very engaged and committed to running the plant safely.

Asked if the CNSC asks any questions about cost, Randy said that the Commission is very aware of cost issues, but that area is not their mandate. OPG's application and letter and results of the Periodic Safety Review are on the OPG website.

Topic #4: Security Exercise at Pickering Nuclear

Security Support Advisor Rebecca Kelly reviewed a security exercise that was held at Pickering Nuclear on March 22. She noted that such an exercise is conducted every two years to demonstrate the effectiveness of the station's security program. This "force on force" exercise takes six months to prepare. It involves developing a scenario. Safety wardens and controllers are active during the exercise. The exercise has to be relevant.

The March 22 exercise featured a series of scenarios to which security officers had to respond. Each scenario can take up to four hours to play out. Depending upon the strategies selected by security staff in responding to the scenario, one scenario can affect the next.

Scott noted that the Pickering Nuclear security service has an MOU with the Durham Regional Police Service, and that link was tested during the exercise. It became a very dynamic exercise, he said, including armed activity.

Rebecca noted that the participants in the exercise do not know in advance what they are going to be responding to. They build on lessons learned as the exercise proceeds; they also draw on lessons learned from table top drills that take place throughout the year.

Scott noted that Pickering Nuclear security have the same radios and networking equipment as first responders at the municipal level.

Rebecca, Scott, Randy, and Steve Lesiuta responded to Council questions:

- *Has your security service been tested by a multiplicity of scenarios happening at the same time?*
Rebecca: Yes.
- *Are you involved with government as well?*
Scott: There are agreements between utilities and the CNSC. We have come up with criteria regarding security tools, including physical barriers and armed security personnel.
- *Do you have the security manpower to address effects that take place further afield?*
Scott: Our security services are primarily involved with the sites and the immediate area in the host community. We have links with surrounding police services, including integrated training, communications systems and standards of operations. We have hosted security teams from other jurisdictions.
- *Are there areas where your security service could do better?*
Scott: I think we could do a better job of telling our story.
- *When you have your regular meetings with local Councils, do you talk to them about the effectiveness of security training and the use of various scenarios in exercises?*
Scott: We have not, to date, but that is something we could add to the municipal

briefings.

- *Are you prepared for cyber attacks?*

Steve: Yes, and this is an area where I cannot give details. The electricity sector conducts cyber security exercises on a regular basis. OPG participated in Exercise GridEx IV on November 15th and 16th, 2017, with over 4,000 North American participants.

- *During the March exercise, were general staff aware that there was going to be a demonstration scenario?*

Rebecca: No, the scenarios are kept secret until they take place. However, for safety reasons, security personnel do know when they will take place. (Randy commented: "Rest assured, the demo scenario was realistic.")

- *Are the outcomes of the exercise available to other nuclear sites in Ontario?*

Rebecca: Yes, in fact all of the nuclear security services seek to learn from each others' exercises.

- *Are there additional drills between major exercises?*

Rebecca: Yes, there are random tests throughout the year, including big drills and smaller ones.

- *Have you compared notes with financial institutions who have elaborate back-up systems?*

Scott: We have well established relations with security at financial institutions.

- *Do you have access to trained dogs?*

Scott: Yes, we have a contract with canine handlers.

- *Do you run multiple scenarios at the same time?*

Rebecca: Yes, we had two simultaneous scenarios that day, a very challenging situation.

- *How is the site security system kept separate from the outside world?*

Randy: There are physical barriers, and the computerized systems at the plant do not lend themselves to remote control.

Topic #5: Public Affairs

Analiese St. Aubin, Manager of Corporate Relations and Communications at Pickering Nuclear, talked about Pickering and Darlington stations' involvement in recent and forthcoming community activities:

- OPG is in the midst of presenting Annual Performance Updates to municipal councils in Durham Region.

- Environmental programs taking place this month for the Pickering site include: Take Pride in Earth Day on April 21 in the Duffin Heights community, including tree planting and litter pick-up; Brockridge Park Cleanup day on April 24 with St. Elizabeth Catholic School; and a Children's Garden Workshop on April 28 at the Information Centre.
- Programs for the Darlington site include: launch on April 5 of Darlington's Pollinating Partners initiative aimed at increasing the number of pollinator-friendly gardens and landscapes on the site, with students from Courtice schools building bee and butterfly hotels; on April 30 students will take part in the installation of bug hotels around the Darlington Energy Complex, Coots Pond and the Enniskillen Conservation Area; the Annual Scout Tree Planting will take place on the Darlington site on May 5.
- At the Darlington Energy Complex on April 10, Federal Government minister Patricia Hajdu announced a co-op wage subsidy program that will enhance the job-readiness of post-secondary STEM (science, technology, engineering, mathematics) and business students across Canada.
- Recent and forthcoming information sharing sessions and tours include: an update on March 26 to the Bowmanville Lions Club; on March 28, OPG provided a presentation and hands-on activity aligned with the Grade 3 energy curriculum at Charles Bowman Public School; on April 12, a senior official from the Canadian High Commission in London, England, toured the Darlington Station and Mock-up Reactor; on April 25, Pickering-Uxbridge liberal candidate Ibrahim Daniyal will tour Pickering Nuclear; on May 1 a group of energy students from Centennial College will participate in information sharing and a bus tour at the Darlington site.
- The next edition of Neighbours Newsletter will be delivered to homes in June.

Topic #6: International Forum on Nuclear Safety

Steven Cooke, a Municipality of Clarington Councillor and a member of the Darlington Community Advisory Committee, represented Clarington at The Third Kijang Forum for Safety and Prosperity of Nuclear Power Plant Cities, held in Busan, Korea, April 9–11 (details at http://www.kijangforum.org/eng/mn02/mn02_02.php). Steven gave a brief review of the forum. Among the sessions were: lessons from nuclear power plant accidents in Japan (two incidents), Chernobyl, and Three Mile Island; presentations on emergency preparedness; the safety of nuclear power plants in natural disasters; and decommissioning.

Topic #7: Exercise Unified Control Video

Steve Lesiuta, Director, Emergency Management, presented a video on the major emergency drill held on Dec. 6 and 7, 2017. Exercise Unified Control was based on a Pickering Nuclear scenario. The exercise involved over 800 participants from over 30 organizations. Among the organizations involved were Pickering Fire Service, the City of Toronto, the City of Pickering and the Municipality of Clarington.

Steve, Dave Nodwell and Scott Burns responded to Council questions:

- *Do you have access to everyone's cell phone during an emergency?*
Steve: A national program for emergency use of cell phones is being developed. There will be tests at the local level.
Dave: The program gives us access to all cell phones in the area during an emergency, including the cells of people travelling through the area.
- *How are you dealing with rural communications issues?*
Dave: We will probably reach rural communities through automated land line diallers.
Scott: We would also use radio, TV, social media and wireless communications.
Dave: If necessary, we would fall back on traditional methods of emergency service personnel knocking on doors.
- *What if there is a mass communications failure?*
Dave: Almost every communications mechanism is currently being employed. If necessary, we can use sirens and megaphones.
Scott: There will be a national test of emergency communications on May 12.

Topic #8: Provincial Nuclear Emergency Response Plan

Dave Nodwell is Deputy Chief, Office of the Fire Marshal and Emergency Management (formerly Emergency Management Ontario). He noted that the organization has about 15 field officers throughout the province. He talked about the Provincial Nuclear Emergency Response Plan (PNERP) Master Plan 2017 (Appendix 1). In developing the Master Plan, the Office held a public consultation, something not done in the past. The public response included 600 unique submissions. The Office developed an advisory group and, based on their input and the public submissions, sat down and re-wrote the Master Plan, which Dave described as "world class." An important change in the Plan was a commitment to public accountability.

Dave noted that PNERP includes new emergency planning zones (where the Plan applies to the whole zone) and new contingency planning zones (where specific sectors can be named rather than applying the Plan to the whole zone).

He noted that the PNGS Implementation Plan (IP) is now approved. The Bruce Power IP has also been approved.

An Emergency Preparedness Review (EPREV) of the Master Plan, a peer review provided by the International Atomic Energy Agency (IAEA), is scheduled for June 2019.

Dave responded to Council questions:

- *You referred to a technical study. What does this study look at?*
The technical study looks at different accident scenarios. It employs a variety of plume modelling tools. It ensures that the size of the zones covered by the Master Plan is sufficient in all circumstances.
- *Is the province committed to pay for implementation of the Plan?*
We haven't got to that stage yet. We don't anticipate that the requirements are going to be onerous or have significant financial implications.
- *Does the Master Plan provide greater clarity?*
Good question. A simple plan is often more helpful than a detailed plan. We've simplified terminology and concepts. The Master Plan is a very multi-jurisdictional response; exercises often involve 40 or 50 people. In developing the Plan, we consulted stakeholders on clarity issues, and we believe that the new plan provides an improvement in clarity.
- *How does the nuclear response plan relate to more likely emergency scenarios?*
We're involved in a lot of different kinds of emergency. They all inform us and allow us to enhance response performance. Evacuation is evacuation, sheltering is sheltering, whether it's a nuclear or other kind of emergency. The whole emergency process is informed by PNERP. Regarding nuclear, ionizing radiation is the issue, regardless of what happened at the plant.

Scott noted that the relationship with emergency responders throughout the province is also important. The development of the Master Plan provided a year of intimacy with various organizations, which has strengthened those partnerships.

Topic #9: Submission to the CNSC

Council members finalized their letter to the CNSC regarding the hearing in June on the OPG application for the renewal of Pickering Nuclear's licence to operate.

Topic #10: CNSC News

For selected news items from the CNSC, please see Appendix 2.

Next Meeting
Tuesday, May 15, 2018, 6 pm
Pickering Nuclear Information Centre
(supper available at 5:30 pm)