

Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #36
Thursday, April 5, 2018 – Best Western Pembroke Inn & Conference Centre, Pembroke, ON
List of Participants noted on last page

9:00 - 9:15 AM	Refreshments
9:15 AM Safety brief, Welcome and Introductions Pat Quinn	Pat Quinn welcomed the council and provided a safety briefing. <ul style="list-style-type: none"> ➤ ESC guest observer <ul style="list-style-type: none"> ○ Kari Richardson, MRC Pontiac ○ Kristan Schruder, CNL NDP Closure Project ➤ ESC alternate members <ul style="list-style-type: none"> ○ Ann Giardini, Town of Laurentian Hills ○ Shannon Quinn, AECL ○ Murray Rutz, Town of Petawawa ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Jim Buckley, CNL NSDF Project ○ Bronwyn Hyland, CNL Small Modular Reactor Program ○ Meggan Vickerd, CNL NPD Closure Project
9:40 – 9:50 AM Review of actions, previous meeting record and new business. John Vincett	John facilitated a round table discussion and introduction of all participants. He inquired if there were any comments regarding the meeting notes. There were none. John then reviewed actions updated since the last meeting in October 2017. ESC Action 150617:02 – COMPLETE ESC Action 161013:06 – ONGOING – NPD closure project to provide an update to the ESC on the concrete grout (assumptions, formulation, criteria, quality control and future monitoring). Kurt Kehler is responsible for this action. ESC Action 170323:02 – ONGOING – Canadian Nuclear Laboratories will provide an update at a future ESC meeting regarding CNL’s role and progress in the production of plutonium 238 space batteries. Mark Lesinski is responsible for this action. ESC Action 170622:03 – ONGOING – CNL to provide a presentation at a future ESC meeting on the monitoring and measurements that have been conducted on CRL site streams and lakes. George Dolinar is responsible for this action. ESC Action 170622:04 – COMPLETE



	<p>ESC Action 171026:01 – COMPLETE ESC Action 171026:02 – COMPLETE ESC Action 171026:03 – COMPLETE</p> <p><i>ESC Action 180405:01 – CNL Corporate Communications will send an email to ESC members to provide details and travel arrangements for the 2018 June 13 benchmarking trip to Port Hope/Port Granby. Nicole LeBlanc is responsible for this action.</i></p> <p>John led a discussion on a new member request from the Municipalité régionale de comté de Pontiac for Biologist, Kari Richardson to join the Council. John McKay motioned to accept a new member and motion was accepted by Ann Giardini. All members in favour.</p>
<p>9:50 – 10:30 AM</p> <p>CNL Business Update</p> <p>Mark Lesinski</p>	<p>Mark Lesinski – President & CEO at CNL provided the ESC with a business update which included details on the recent 10-year operating licence granted to CRL, the March 2018 closure of the National Research Universal (NRU), the launch of Avenir, a new institute for alpha particle research & innovation, and the status of CRL’s Capital Projects.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. What will the virtual company Avenir look like and how will it operate? 2. Can you comment on the “brain drain” (workforce) during 2017? 3. Do you know the worldwide perspective on CNL’s nuclear research? 4. Is it possible to restore the “Appendix D” table from the old Licence Condition Handbook (LCH) into the new LCH? <p><i>ESC Action 180405:02 – CNL to communicate to Ottawa Valley residents the international presence and expertise of individuals employed at Chalk River Laboratories as well as the status of international research being performed. Pat Quinn is responsible for this action.</i></p> <p><i>ESC Action 180405:03 – To clarify with the CNSC if the mapping document referenced in Commission’s Record of Decision for new CRL Licence provides an appropriate mapping of “Appendix D” that was in the previous Licence Conditions Handbook (LCH). Ole Hendrickson is responsible for this action.</i></p>
<p>10:30 – 10:45 AM</p> <p>Quarterly Environmental Performance Report</p> <p>George Dolinar</p>	<p>George Dolinar – Director of the Environmental Protection Branch (EPB) at CNL presented the Chalk River Laboratories (CRL) Environmental Performance Summary. The overview included updates on the environmental monitoring program and recent effluent and environmental monitoring reports. George also provided clarification (facts) to the recent CBC news article on NDP effluent releases into the Ottawa River.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you explain CNL derived release limits and how they relate to industry and CSA standards? 2. In the last release, explain why your PCB levels were over the provincial water quality standard? 3. Do you have limits for non-radiological releases?

	<ol style="list-style-type: none"> 4. Does CNL have a single document that details the Environmental Monitoring Program as well as lists all the sampling locations on the Ottawa River? 5. During the recent licence hearing, legacy reactor cores buried at CNL were described as “wrapped”, what does this consist of? 6. Do these three reactor cores contribute to the current plumes onsite?
10:45 – 11:00 PM	Bio break
<p>11:00 AM – 12:00 PM</p> <p>An Introduction to Small Modular Reactors at CNL</p> <p>Bronwyn Hyland</p>	<p>Bronwyn Hyland – Small Modular Reactor (SMR) Program Manager at CNL gave ESC members a detailed presentation on CNL’s Small Modular Reactor Program vision including Canadian SMR status, global response, CNL siting activities and schedule.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Do all SMR designs involved enriched Uranium? 2. Most northern communities are Indigenous, has there been any nation to nation conversations about SMRs (nuclear) in their communities? 3. Who is responsible for the waste? <p><i>ESC Action 180405:04 – CNL to look into securing an agenda spot at the 2019 Federation of Canadian Municipalities (FCM) Conference. Pat Quinn is responsible for this action.</i></p>
12:00 – 12:45 PM	Lunch
<p>12:45 – 1:45 PM</p> <p>Decommissioning & Waste Management Update</p> <p>Kurt Kehler</p>	<p>Kurt Kehler – Vice President, Decommissioning & Waste Management (DWM) at CNL gave an update about decommissioning and waste management activities at Chalk River including, facilities decommissioning, waste management and environmental remediation, fuel package and storage facility and HEU fuels and target residue material. Additional updates included the Port Hope and Port Granby projects as well as a CRL decommissioning look-ahead. Kurt also addressed ESC Action 150617:02 and 170622:04 in the DWM update.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Is the ground and surface water contaminated at Port Granby? 2. Will you have to utilize a dust cover and/or filters when you decommission the Plutonium Recovery Lab? 3. What is the long term plan for intermediate level waste at CRL? 4. Can you explain the relocation of Whiteshell fuel to CRL? 5. Will this be interim storage?



	<ol style="list-style-type: none"> 6. Do you accept any other nuclear waste for storage? 7. Do you think it is appropriate to keep accepting new waste to CRL? 8. Is CNL shipping heavy water from CRL to the La Prade site? <p><i>ESC Action 180405:05 – CNL to explain their relationship and waste disposal arrangements with SRB Technologies. Kurt Kehler is responsible for this action.</i></p> <p><i>ESC Action 180405:06 – CNSC will provide ESC members a copy of the La Prade site licence (through the ESC Secretary). Wasif Islam is responsible for this action.</i></p>
<p>1:45 – 2:00 PM</p> <p>NPD Closure Project Update</p> <p>Meggan Vickerd</p>	<p>Meggan Vickerd – Manager, NPD Operations at CNL presented to the council a high level overview (themes) of the public and industry comments received during the NPD Closure project Environmental Impact Statement (EIS) comment period.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Do you have an estimate of tritium and where it resides at NPD? 2. In regards to sampling, do you think more work needs to be done to have a complete reference inventory? 3. Can you provide any information on the “shear zone” geology? 4. Why is there a different approach to “reducing tritium to water” from NPD to NSDF? 5. In regards to in-situ decommissioning, how will you approach stakeholders when international guidelines indicate in-situ should only be considered in emergency scenarios? 6. Is it safe to leave in non-radiological contaminants?
<p>2:00 – 2:15 PM</p>	<p>Bio break</p>
<p>2:15 – 3:00 PM</p> <p>NSDF Project Update</p> <p>Jim Buckley</p>	<p>Jim Buckley – Near Surface Disposal Facility (NSDF) Project lead at CNL provided an NSDF update which included updates on the revised schedule, archeological, seismic, design improvements, performance assessment and stakeholder feedback.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you clarify if the NSDF Environmental Assessment will be completed in 2018? 2. Would you consider making the CNL Environmental Risk Assessment (ERA) public? 3. Did you consider any other locations for the NSDF? 4. How accurate is your cost for the 50 year operation of the Waste Water Treatment Plant (WWTP)? 5. Wouldn’t you have to cost WWTP operations over several hundred years (not just 50)?



	<p>6. Do you have a “dry-up” comparison of a facility that has been closed/capped for over 10 years? 7. Are any of your facility comparisons as close to a body of water as the NSDF?</p> <p><i>ESC Action 180405:07 – CNL to provide a comparison of similar facilities to the NSDF that have been closed/capped for over 10 years. Kurt Kehler is responsible for this action.</i></p>
<p>3:00 – 3:15 PM In the Community Nicole LeBlanc</p>	<p>Nicole LeBlanc – Corporate Communications at CNL provided an update on CNL activities with the public since the last ESC meeting held in October 2017 as well as upcoming activities.</p>
<p>3:15 PM Closing John Vincett</p>	<p>John Vincett gave a recap of the meeting and reviewed the actions and reminded council to fill out evaluation forms.</p> <p>Next ESC meeting – 2018 June 21</p> <p>There were no comments on the new actions or the meeting recap.</p>

ESC Participants:

Kristi Beatty, Ducks Unlimited
Bruce Bigham, Deep River Horticultural Society
Meredith Brown, Ottawa Riverkeeper
James Gibson, Municipalité régionale de comté de Pontiac
Ole Hendrickson, Concerned Citizens of Renfrew County
Meghan Hendry, Garrison Petawawa
Ken Hooles, Pembroke Area Field Naturalists
Joan Lougheed, Town of Deep River
John McKay, Four Seasons Conservancy
Craig Robinson, Old Fort William Cottagers' Association
Walter Stack, Renfrew County Council

ESC Alternates:

Ann Giardini, Town of Laurentian Hills
Shannon Quinn, Atomic Energy of Canada Limited (AECL)
Murray Rutz, Town of Petawawa

Canadian Nuclear Laboratories:

Shaun Cotnam, Senior Director, Compliance
Kevin Daniels, Vice President, HSSE
George Dolinar, Environmental Program Authority
Kurt Kehler, Vice President, Decommissioning and Waste Management
Nicole LeBlanc, Communications Officer, Corporate Communications
Mark Lesinski, President & CEO
Pat Quinn, Director, Corporate Communications
TBD, Director, DWM Science & Technology Transition Advisor
TBD, Environmental Scientist, Environmental Technologies

Invited Observers:

Wasif Islam, Canadian Nuclear Safety Commission
Kristan Schruder, CNL – NPD Closure Project

Facilitator:

John Vincett, Public Dialogue Alternatives

Invited Guests:

Jim Buckley, CNL – NSDF Project
Bronwyn Hyland, CNL – SMR Project
Kari Richardson, Municipalité régionale de comté de Pontiac
Meggan Vickerd, CNL – NPD Closure Project

Absent:

Peter Arbour, Petawawa Research Forest
Ron Gervais, City of Pembroke
Marc Laurin, Métis Nation of Ontario, North Bay
Jim Meness, Algonquins of Pikwakanagan
Jed Reinwald, Town of Laurentian Hills
Theresa Sabourin, Town of Petawawa