

Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #39
Thursday, March 28, 2019 – Chalk River Laboratories, Chalk River, ON
List of Participants noted on last page

9:00 - 9:15 AM	Refreshments
<p>9:30 AM</p> <p>Safety brief, Welcome and Introductions</p> <p>Nicole LeBlanc</p>	<p>Nicole LeBlanc welcomed the council and provided a safety briefing.</p> <ul style="list-style-type: none"> ➤ New ESC members <ul style="list-style-type: none"> ○ Sue D’eon, Town of Deep River replacing Joan Lougheed ○ James Brose, Renfrew County Council replacing Walter Stack ○ Ted Hiscock, Pembroke Area Field Naturalists replacing Ken Hooles ○ Murray Rutz, Town of Petawawa replacing Theresa Sabourin ➤ ESC guest observers <ul style="list-style-type: none"> ○ Maude Page, AECL ○ Brett Legree, CNSC for Wasif Islam ➤ ESC alternate members <ul style="list-style-type: none"> ○ Christine Gallagher, CNL Environmental Protection ○ Ann Giardini, Town of Laurentian Hills ○ Larissa Holman, Ottawa Riverkeeper ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Kathy McCarthy, Vice President, CNL Research & Development ○ Kristan Schruder, CNL NPD Closure Project ○ Meggan Vickerd, CNL NSDF Project ○ Sandra Faught, CNL NSDF Project <p><i>ESC Action 190328:01 – CNL Corporate Communications will send the ESC Terms of Reference (TOR) to the new ESC members. Nicole LeBlanc is responsible for this action.</i></p>

<p>9:40 – 9:50 AM</p> <p>Review of actions, previous meeting record and new business.</p> <p>John Vincett</p>	<p>John facilitated a round table discussion and introduction of all participants.</p> <p>He inquired if there were any comments regarding the meeting notes. There were none.</p> <p>John then reviewed actions updated since the last meeting in October 2018.</p> <p>ESC Actions: ESC Action 1800621:01 – ONGOING – When available, CNL will provide information on Small Modular Reactor (SMR) waste management based on SMR design applications. Mark Lesinski is responsible for this action. ESC Action 181018:01: COMPLETE ESC Action 181018:02: COMPLETE ESC Action 181018:03: COMPLETE</p> <p>Note: Ole Hendrickson had comments on the completed action and was looking for further information and clarity on consolidation. John recommended that if after the Environmental Remediation Management update, if Ole still had concerns, an action could be raised.</p> <p>ESC Action 181018:04: COMPLETE</p>
<p>9:50 – 10:15 AM</p> <p>CNL Business Update</p> <p>Kathy McCarthy</p>	<p>Kathy McCarthy – Vice President, Research and Development at CNL provided the ESC with a business update on Executive Team changes and future vision. She also gave a re-cap of recent CNL news releases as well as update on the Small Modular Reactor (SMR) siting at Chalk River Laboratories (CRL).</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Do you have any insights on expediting the SMR process due to global demand (i.e. Iqaluit)? 2. Is the CNSC supportive of the SMR process? 3. Will the SMR Starcore proposal be part of the Whiteshell re-licencing hearing?
<p>10:15 – 11:00 AM</p> <p>Targeted Alpha Therapy at CNL</p> <p>Kathy McCarthy</p>	<p>Kathy McCarthy – Vice President, Research and Development at CNL gave ESC members a detailed presentation on Targeted Alpha Therapy at Chalk River Laboratories. This also included an informative video by TRIUMF : Canada's particle accelerator centre: https://www.youtube.com/watch?v=8DkhSFS0FY4</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. How will you get approvals? 2. Are you aware of any possible improvements on Linear No Threshold (LNT) theory?

11:00 – 11:15 AM	Bio break
11:15 – 11:45 AM Quarterly Environmental Performance Report Christine Gallagher	Christine Gallagher – Section Head 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 changes to the performance reporting. Christine also addressed a question from an ESC member on a graph in the 2017 Annual Safety Report (which includes annual CRL environmental monitoring results). She also introduced a children’s Earth Day contest for all local students. QUESTIONS: <ol style="list-style-type: none"> 1. Does the shutdown of NRU affect halocarbon releases? 2. Do your annual reports on waterborne tritium include Perch Creek and the Chalk River Basin? 3. Are they included as part of the total site reporting or are they done individually? 4. Do you monitor and track the use of salt on site?
11:45 – 12:15 AM NPD Closure Project Update Kristan Schruder	Kristan Schruder – NPD, General Manager provided a NPD closure project update to the council including geoscience characterization and seismic impact. Kristan also walked through the new NPD webpage updates which includes a new <i>documents</i> section. QUESTIONS: <ol style="list-style-type: none"> 1. Will institutional control be passed on to another entity/governing body after 100 years? 2. Do you have a tentative date on the concrete pour? 3. Will the pour be done by CNL or contracted out?
12:15 – 1:00 PM	Lunch
1:00 – 1:45 PM Decommissioning & Waste Management Update Mike Gull	Mike Gull – Vice President, Environmental Remediation Management (ERM) at CNL introduced the name change from Decommissioning Waste Management (DWM) to Environmental Remediation Management and explained rationale behind it. He updated the council on facilities decommissioning, Douglas Point, Gentilly-1, building 250, Fuel Packaging Storage (FPS), HEU/TRM progress and upcoming environmental remediation projects including Whiteshell Laboratories (WL). QUESTIONS: <ol style="list-style-type: none"> 1. How many years has the HEU/TRM repatriation contract been extended? 2. Would you consider shipping any waste to the Whiteshell site? 3. How long can you store intermediate level waste in the SMAGS/MAGS facilities?



	<ol style="list-style-type: none">4. Is the Government ever going to make a decision on nuclear waste disposal?5. Will building 250 debris go into the NSDF? If no, where will it go?6. Where is the contaminated soil from Port Hope stored at the CRL site?7. Why would you transport WL waste to Chalk River if one of the proposed NWMO disposal sites is located in Ignace, ON (closer to Manitoba)?8. Due to the proximity of the CRL site to the Ottawa River, why aren't you looking at other sites to store the waste?9. Would you consider relocating the NSDF and current waste to other federal land further from the river, i.e. Garrison Petawawa or Petawawa Forestry?10. How can you prove the technology of the NSDF waste water treatment plant?11. Why are you allowing water to mix with the waste in the NSDF?12. Are the shipping containers equipped to handle radioactive waste?13. Will the shipping containers go into the NSDF?
1:45 – 2:00 PM In the Community Nicole LeBlanc	Nicole LeBlanc – Corporate Communications at CNL provided an update on CNL activities with the public since the last ESC meeting held in October 2018 as well as upcoming activities.
2:00 – 2:15 PM	Bio break
2:15 – 3:00 PM NSDF Project Update Meggan Vickerd & Sandra Faught	<p>Meggan Vickerd – Director of the Near Surface Disposal Facility (NSDF) Project provided a project update on the NSDF which included geomembrane testing, archaeological assessment and turtle mitigation plan. Meggan also covered ESC Action 181018:02 on the revised NSDF regional study area and ESC Action 081018:01 on the detailed inventory of what will go into the NSDF.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none">1. Why do plutonium 241 and cobalt 60 increase in the revised NSDF reference inventory?2. Is the new reference inventory publically accessible?3. What type of redundancy will be in place for the waste water treatment plant?4. Where will the treated water go?5. How do I take part in the NSDF effluent discharge alternatives focus group?6. Have you identified a clay source for the base layer?7. Can you clarify the pathways of water leaving the NSDF facility?8. Do you have a source for the “clean” soil that will act as the temporary cover and/or dust cover?



	<p>9. How will you measure the low-level waste? 10. How much higher is low-level waste than standard background radioactivity? 11. Will you have any checks on alpha and beta radiation at the NSDF entry gate? 12. Is the decision to transport high-level waste from Whiteshell Laboratories to Chalk River subject to regulatory approval?</p> <p><i>ESC Action 190328:02: CNL/NSDF project will add the new reference inventory to the “FAQs” on the NSDF webpage (www.CNL.ca/nsdf). Mike Gull and Nicole LeBlanc are responsible for this action.</i></p> <p><i>ESC Action 190328:03: CNL/NSDF project will post the revised NSDF Waste Acceptance Criteria report and Effluent Discharge Targets report to the NSDF webpage (www.CNL.ca/nsdf) when available. Mike Gull and Nicole LeBlanc are responsible for this action.</i></p> <p><i>ESC Action 190328:04: The NSDF project will verify if the NSDF clay source is a Leda clay. Mike Gull is responsible for this action.</i></p>
3:00 – 3:15 PM	John Vincett gave a recap of the meeting and reviewed the actions and reminded council to fill out evaluation forms.
Closing	Next ESC Meeting – 2019 June 20
John Vincett	There were no comments on the new actions or the meeting recap.

ESC Participants:

Kristi Beatty, Ducks Unlimited
Bruce Bigham, Deep River Horticultural Society
James Brose, Renfrew County Council
Sue D'eon, Town of Deep River
Ron Gervais, City of Pembroke
James Gibson, Municipalité régionale de comté de Pontiac
Meghan Hendry, Garrison Petawawa
Ted Hiscock, Pembroke Area Field Naturalists
Ole Hendrickson, Concerned Citizens of Renfrew County
John McKay, Four Seasons Conservancy
Kari Richardson, Municipalité régionale de comté de Pontiac
Craig Robinson, Old Fort William Cottagers' Association
Murry Rutz, Town of Petawawa

ESC Alternates:

Anne Giardini, Town of Laurentian Hills
Larissa Holman, Ottawa Riverkeeper

Canadian Nuclear Laboratories:

Shaun Cotnam, Senior Director, Compliance
Christine Gallagher, Section Head, Environmental Protection
Mike Giardini, ERM Communications Officer, Corporate Communications
Mike Gull, Vice President, Environmental Remediation Management (ERM)
Nicole LeBlanc, Communications Officer, Corporate Communications
Cynthia Williams, Vice President, HSSE

Invited Observers:

Brett Legree, Canadian Nuclear Safety Commission
Maude Page, Atomic Energy of Canada Limited

Facilitator:

John Vincett, Public Dialogue Alternatives

Invited Guests:

Sandra Faught, CNL – NSDF Project
Kathy McCarthy, CNL – Research & Development
Kristan Schruder, CNL – NPD Closure Project
Meggan Vickerd, CNL – NSDF Project

Absent:

Peter Arbour, Petawawa Research Forest
George Dolinar, Environmental Program Authority
Marc Laurin, Métis Nation of Ontario, North Bay
Mark Lesinski, President & CEO
Jim Meness, Algonquins of Pikwakanagan
Patrick Nadeau, Ottawa Riverkeeper
Pat Quinn, Director, Corporate Communications
Jed Reinwald, Town of Laurentian Hills