

Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #41 (DRAFT UNTIL ACCEPTED)
Thursday, October 24, 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>John Vincett</p>	<p>Pat Quinn welcomed the council and provided a safety briefing.</p> <ul style="list-style-type: none"> ➤ ESC guest observers <ul style="list-style-type: none"> ○ Maude Page, AECL ➤ New member <ul style="list-style-type: none"> ○ Susan Miller replaced Bruce Bingham, Deep River Horticultural Society ➤ ESC alternate members <ul style="list-style-type: none"> ○ Elizabeth Cobb, Petawawa Research Forest ○ Anne Giardini, Town of Laurentian Hills ○ Bob McKenzie, Ducks Unlimited ○ Christian Renault, Pembroke Area Field Naturalists ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Keyes Niemer, CNL – SMR Project ○ Annie Morin, CNL – Environmental Protection ○ Kristan Schruder, CNL – NPD Closure Project ○ Meggan Vickerd, CNL – NSDF Project ○ Brian Wilcox, CNL – NPD Project
<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 June 2019.</p>



	<p>ESC Actions: ESC Action 180621:01 – 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 190328:03: COMPLETE ESC Action 190620:01: COMPLETE ESC Action 190620:02: COMPLETE ESC Action 190620:03: – ONGOING – CNL to provide a presentation at a future ESC meeting on Carbon-14 at the CRL site. Mike Gull is responsible for this action. ESC Action 190620:04: COMPLETE ESC Action 190620:05: COMPLETE</p>
<p>9:50 – 10:15 AM CNL Business Update Mark Lesinski</p>	<p>Mark Lesinski – President and CEO at CNL provided the ESC with a business update on the upcoming CNSC public meeting on the Regulatory Oversight Report for CNL Sites: 2018, which will be held in Ottawa in November 2019. Mark discussed recent and future engagement activities including IAEA conferences on climate change and trends in radiopharmaceuticals. He also gave a re-cap of CNL news releases since the June 2019 meeting. News releases can be found on CNL.ca.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none">1. How often will CONTACT KIDS be published?2. Will the additional Port Hope waste be destined for the NSDF at CRL?3. In regards to Actinium 225, how close are you to making a pharmaceutical?4. Why is the CONTACT KIDS edition so short?5. Why does CONTACT KIDS measure in feet and not metres?6. Do you offer educational resources on your website?7. Can I get a copy of the International Energy Agency's, <i>Nuclear Power in a Clean Energy System</i> Report?8. Can you provide a re-cap of the CNL missions?9. Will the workforce adjustments continue? <p><i>ESC Action 191024:01 – Corporate Communications will send copies of CONTACT KIDS to local municipal offices. Nicole LeBlanc is responsible for this action.</i></p> <p><i>ESC Action 191024:02 – Corporate Communications will send Ole Hendrickson a copy of the International Atomic Energy Agency's, <i>Nuclear Power in a Clean Energy System</i> Report. Nicole LeBlanc is responsible for this action.</i></p>



<p>10:15 – 11:00 AM</p> <p>Update on CNL’s Small Modular Reactor (SMR) Program</p> <p>Keyes Niemer</p>	<p>Keyes Niemer – SMR Deployment Project Manager at CNL updated the ESC on the progress of CNL’s Small Modular Reactor (SMR) Program. The update included news on the invitation process, demonstration siting at CRL and the introduction of the Clean Energy Development and Innovation Research Park (CEDIR) and the Canadian Nuclear Research Initiative (CNIR).</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Do you know the lifespan of an SMR? 2. Do you have a predetermined location for disposal of SMR’s at the end of their life? 3. Have any SMR’s experienced an accident? 4. What kind of enriched uranium will be utilized and where will it come from? 5. Can SMR’s really move fast enough to effect the current climate change crisis? 6. Would the Slowpoke technology be considered as a SMR concept? 7. Could you re-use the spent fuel? 8. Do the regulators understand the urgency and are they working with you to safely expedite the licensing process? 9. Who would hold the licence for the SMR at the CRL site? 10. Have you considered the staffing challenges of building SMR’s in the north? 11. Will you be tracking the support costs to SMR vendors?
<p>11:00 – 11:15 AM</p>	<p>Bio break</p>
<p>11:15 – 11:45 AM</p> <p>Quarterly Environmental Performance Report</p> <p>George Dolinar</p>	<p>George Dolinar – Director of Radiation and Environmental Protection at CNL presented the Chalk River Laboratories (CRL) Environmental Performance Summary. The overview included updates on the environmental monitoring program and annual environmental monitoring results. He introduced the changes to the Impact Assessment Act that came into force August 2019. George also addressed ESC Action 190620:05 on the CRL groundwater elevation levels during the 2017 and 2019 flooding.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Why don’t you include Perch Lake basin or Maskinonge Lake in the effluent monitoring map on slide 4? 2. Is the concrete confirmed clean prior to crushing? 3. Are there any plans to deal with the 1952 reactor core that in the ground at CRL? 4. Does CNL have groundwater monitoring reports and are they available to the public? 5. Can you share the 2006 Department of Fisheries and Oceans (DFO) Letter of Advice and fish impingements numbers? 6. Why do you have radioactive signs in waste management areas if it is safe? <p><i>ESC Action 191024:03 – Corporate Communications will share a copy of the 2006 DFO Letter of Advice and fish impingement numbers with ESC members. George Dolinar and Nicole LeBlanc are responsible for this action.</i></p>



	<p><i>ESC Action 191024:04 – CNL to clarify radioactive signage outside of Waste Management Area (WMA) A. George Dolinar is responsible for this action.</i></p> <p><i>ESC Action 191024:05 – CNL to provide the groundwater levels for the CRL site during the 2017 and 2019 flooding. George Dolinar is responsible for this action.</i></p>
<p>11:45 AM – 12:30 PM</p> <p>Environmental Remediation Management (ERM) Update</p> <p>Mike Gull</p>	<p>Mike Gull – Vice President, Environmental Remediation Management (ERM) at CNL provided an update about facilities decommissioning accomplishments at CRL, waste management and environmental remediation, fuel package and storage facility and concrete processing. He also introduced the new (draft) facilities decommissioning video for feedback.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none">1. What will you do with the low and intermediate level wastes trenches at Whiteshell if you are unable to leave them in-situ?2. How will you address intermediate level waste from all of the CNL sites?3. What is your definition of bulk remediation?4. Could you utilize the fuel packaging system facility for storage of intermediate level waste?5. In regards to the LDA pipeline, how do you determine what you need to remove to be deemed clean or complete? <p><i>ESC Action 191024:06 – CNL to provide a presentation at a future ESC meeting on the next land use of the CRL site. Mike Gull is responsible for this action.</i></p>
<p>12:30 – 1:15 PM</p>	<p>Lunch</p>
<p>1:15 – 1:45 PM</p> <p>NPD Closure Project Update</p> <p>Kristan Schruder & Brian Wilcox</p>	<p>Brian Wilcox – NPD, General Manager provided an update on the NPD Closure Project which included alternative means assessment, CNSC independent environmental monitoring results, site characterization and site remediation/end use. Brian also included past and future public engagement activities.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none">1. Are you still on schedule for a 2021 closure?2. Are you still discharging (controlled) to the Ottawa River?3. What was the land use prior to the construction of NPD and the Swisha dam?4. Is there future dismantling planned for NPD?5. Are there additional details online on the independent monitoring program?6. Do the CNSC conduct the independent study?



	<p>7. Do the CNSC conduct similar independent monitoring at the CRL site?</p> <p>8. What period of time would the NPD materials be in interim storage if in-situ disposal is not used?</p>
<p>1:45 – 2:00 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 June 2019 as well as upcoming activities.</p>
<p>2:00 – 2:15 PM</p>	<p>Bio break</p>
<p>2:15 – 3:00 PM NSDF Project Update Meggan Vickerd & Annie Morin</p>	<p>Annie Morin – Environmental Protection at CNL provided a NSDF update on species at risk assessment which included assessment results, habitat change and the potential impact and mitigation on the Blanding’s turtle, bat species and Canada warbler and wood thrush.</p> <p>Meggan Vickerd covered past and future engagement activities and ESC Action 190328:03. The action addressed the confirmation of the posting of the revised NSDF Waste Acceptance Criteria and Effluent Discharge Targets to CNL.ca.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Were any bats harmed during studies? 2. Will the results on the bat roosts be posted when the study is complete? 3. Do you know the number of bats that have died from <i>white nose syndrome</i>? 4. Could you provide purchasing information for the bat boxes that CNL uses? <p><i>ESC Action 191024:07 – CNL to provide an example of bat boxes being used at the March 2020 ESC meeting. George Dolinar is responsible for this action.</i></p>
<p>3:00 – 3:15 PM Recap & Review of Actions 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>Proposed 2020 ESC Meeting dates: March 26, June 18, October 22</p> <p><i>ESC Action 191024:08 – CNL to send out the proposed 2020 ESC meeting dates to ESC members. Nicole LeBlanc is responsible for this action.</i></p> <p>There were no comments on the new actions or the meeting recap.</p>

ESC Participants:

James Brose, Renfrew County Council
Sue D'eon, Town of Deep River
James Gibson, Municipalité régionale de comté de Pontiac
Meghan Hendry, Garrison Petawawa
Ole Hendrickson, Concerned Citizens of Renfrew County
Larissa Holman, Ottawa Riverkeeper
John McKay, Four Seasons Conservancy
Susan Miller, Deep River Horticultural Society
Kari Richardson, Municipalité régionale de comté de Pontiac
Craig Robinson, Old Fort William Cottagers' Association
Murry Rutz, Town of Petawawa

ESC Alternates:

Elizabeth Cobb, Petawawa Research Forest
Anne Giardini, Town of Laurentian Hills
Bob McKenzie, Ducks Unlimited
Christian Renault, Pembroke Area Field Naturalists

Canadian Nuclear Laboratories:

Shaun Cotnam, Senior Director, Compliance
George Dolinar, Environmental Program Authority
Mike Gull, Vice President, Environmental Remediation Management (ERM)
Nicole LeBlanc, Communications Officer, Corporate Communications
Mark Lesinski, President & CEO
Mitch MacKay, ERM Communications Manager, ERM
Pat Quinn, Director, Corporate Communications
Cynthia Williams, Vice President, HSSE

Invited Observers:

Maude Page, Atomic Energy of Canada Limited

Facilitator:

John Vincett, Facilitator

Invited Guests:

Keyes Niemer, CNL – SMR Project
Annie Morin, CNL – Environmental Protection
Kristan Schruder, CNL – NPD Closure Project
Meggan Vickerd, CNL – NSDF Project
Brian Wilcox, CNL – NPD Project

Absent:

Kristi Beatty, Ducks Unlimited
Ron Gervais, City of Pembroke
Marc Laurin, Métis Nation of Ontario, North Bay
Brett Legree, Canadian Nuclear Safety Commission
Jim Meness, Algonquins of Pikwakanagan
Jed Reinwald, Town of Laurentian Hills
Ted Hiscock, Pembroke Area Field Naturalists
Melissa Vekeman, Petawawa Research Forest