

Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #34
Thursday, June 22, 2017 – Clarion Hotel & Conference Centre, Pembroke, ON
List of Participants noted on last page

9:15 - 9:30 AM	Refreshments
9:30 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"> ○ Lisa Donnelly, CNSC ○ Mohamed Gacem, CNSC ○ Mike Giardini, CNL ○ Kari Richardson, MRC Pontiac ➤ ESC alternate members <ul style="list-style-type: none"> ○ Glen Doncaster, Town of Deep River ○ Michelle Perry, Garrison Petawawa ○ Murray Rutz, Town of Petawawa ○ Melissa Vekeman, Petawawa Research Forest ○ Cynthia Williams, Deputy VP, Health, Safety, Security and Environment (HSSE) ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Javed Anderson, CNL Fuel Technology ○ Jim Buckley, CNL NSDF Project ○ Andy Drom, CNL Waste Programs ○ Meggan Vickard, 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 March 2017.



	<p>ESC Action 170323:04 (Waste Management terms) QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you clarify if abandonment means no longer monitoring? 2. Why do these definitions not appear in the legislation? <p>ESC Action 150617:2 – ONGOING – Decommissioning & Waste Management will update ESC members on Waste Data Tracking System software implementation. Kurt Kehler is responsible for this action. ESC Action 161013:02 – ONGOING – CNL will facilitate a tour of the Harriet Brooks building (350) for the ESC members. Nicole LeBlanc is responsible for this action. ESC Action 161013:05 – 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 161013:08 (Revised to combine ESC Action 161013:07) ONGOING – CNL to present results at a future ESC meeting the valued components from the NSDF and NPD project upon completion of the NPD Closure and NSDF project EIS. George Dolinar is responsible for this action. ESC Action 161013:09 – COMPLETE ESC Action 170323:01 – ONGOING – Canadian Nuclear Laboratories will conduct outreach to ensure that regional municipalities are up to date on CRL transportation. Pat Quinn 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 170323:03 – COMPLETE ESC Action 170323:04 – COMPLETE ESC Action 170323:05 – COMPLETE</p> <p><i>ESC Action 170622:01 – CNL Corporate Communications to organize the logistics for the 2017 October 26 meeting to combine a site visit with a meeting in the Town of Deep River. Pat Quinn is responsible for this action.</i></p>
<p>9:50 – 10:30 AM CNL Business Update Mark Lesinski</p>	<p>Mark Lesinski – President and CEO at CNL provided the ESC with a business update which included a review of recent CNL Information Bulletins including: CNL seeks input on small modular reactor technology, Public invited to visit the Chalk River Laboratories, and Canadian Nuclear Laboratories hosts Industry Day. Additionally, Mark presented on ESC Action 170323:03 which included content on CNL’s Long Term Strategy, and the investment of more than \$1.2 billion over ten years in the facilities and infrastructure of the Chalk River Laboratories. He also announced the extension of the Near Surface Disposal Facility Project Draft Environmental Impact Statement (EIS) public comment period until 2017 August 17 and the Chalk River Laboratories (CRL) Site - 10 year Licence Renewal Application CNSC Public Hearing being held on 2018 January 24 & 25 at the Best Western Pembroke Inn & Conference Centre. Mark was also available for the duration of the meeting and was active in answering several questions and concerns.</p>

	<p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. On 2017 July 11, MRC Pontiac Council are scheduled to tour CRL; could you include a presentation on VSMRs and SMRs to the Council? 2. The 10-year plan emphasises the requirement of the NSDF and implies “fait accompliit” while there is still an Environmental Assessment in progress, can you comment on this? <p><i>ESC Action 170622:02 – CNL Corporate Communications to incorporate an overview presentation on Small Modular Reactors (SMRs) and Very Small Modular Reactors (VSMRs) at the upcoming MRC Pontiac Council site visit to Chalk River Laboratories on 2017 July 11. Pat Quinn 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 - Environmental Program Authority within 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, monitoring updates, and the external audit of the Environmental Management System. George also supplied an update on CRL biodiversity summer studies including turtles, bats, and birds.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. What will happen to the Moly stack? 2. Have you completed any studies on this stack yet? 3. Did the recent floods have any environmental effects on site? 4. Deep River Horticultural Society has had some requests for community garden plots and I understand there is already an ongoing monitoring program for vegetation, can you explain this? 5. Is it possible to get a future presentation on the monitoring and measurements that have been conducted on CRL site streams and lakes? <p><i>ESC Action 170622:03 – 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.</i></p>
<p>10:45 – 11:00 AM</p>	<p>Bio break</p>
<p>11:00 – 11:45 PM</p>	<p>Andy Drom – Director, Waste Programs 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.</p>

<p>Decommissioning & Waste Management Update</p> <p>Andy Drom</p>	<p>Javed Anderson – Fuel Management Engineer, Used Fuel at CNL presented on ESC Action 161013:05 which included an overview on cemented Mo-99 waste research and development, confirmation testing program and proposed activities over the next five years.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Are you utilizing a cemented process for the tank decommissioning? 2. What volumes are you working with and do you have a timeline? 3. Where do you store the material/s in the interim? 4. How long is the HEU agreement? 5. In regards to the lifecycle cost of waste, how does your learning on waste feed into Canada’s liabilities? 6. Is there a fund to assist nuclear power reactors with the storage of high level waste? 7. With the proposed processing options, will the material/s become less radioactive and no longer need monitoring from a security perspective? <p><i>ESC Action 170622:04 – CNL to provide a presentation at a future ESC meeting detailing the approach to stored liquid waste including process and timeline. Kurt Kehler is responsible for this action.</i></p>
<p>11:45 – 12:30 PM</p>	<p>Lunch</p>
<p>12:30 – 1:00 PM</p> <p>NPD Closure Project Update</p> <p>Meggan Vickerd</p>	<p>Meggan Vickerd – Manager, NPD Operations at CNL presented to the council an update on the NPD Closure Project comprising of an overview on environmental performance which included current and future site monitoring and reporting.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Where is the source of tritium at NPD and what percentage is background? 2. Do you monitor at the top of the stack and do you monitor liquid emissions into the Ottawa River? 3. Does the 2020 completion date reflect all closure activities? <p><i>ESC Action 170622:05 – NPD project to provide ESC members with the airborne tritium levels at NPD? Kurt Kehler is responsible for this action.</i></p>
<p>1:00 – 1:30 PM</p> <p>NSDF Project Update</p> <p>Jim Buckley</p>	<p>Jim Buckley – Director, NSDF project at CNL gave an update on the progress of the NSDF Project at CRL. The presentation included a brief overview of progress, updated schedule and licensing timelines. Additionally, an update on biodiversity, engagement events, and benchmarking activities.</p>

	<p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Is Port Hope a disposal or long-term facility? 2. Is Port Hope the same design as the CRL NSDF? 3. What is the soil type at Port Hope and what is the proximity to water bodies? 4. When will the additional safety analysis report on worker safety/dose be released? 5. What is the turnaround time on the final NSDF Environmental Impact Statement? 6. Will it be available to the public? 7. How far in advance of the CNSC public hearing will the public receive the NSDF Environmental Assessment? 8. There are many negative comments in regards to the NSDF design, are you considering an alternate plan? <p><i>ESC Action 170622:06 – CNL Corporate Communications will send an email to ESC members to gauge interest of a NSDF benchmarking trip to Port Hope/Port Granby. Nicole LeBlanc is responsible for this action.</i></p>
<p>1:30 – 2:00 PM</p> <p>Concerned Citizens of Renfrew County Update</p> <p>Ole Hendrickson</p>	<p>Ole Hendrickson – Concerned Citizens of Renfrew County requested an opportunity (in advance) to provide a presentation to the council on their views/comments on the NSDF proposal.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can we get a copy of the Concerned Citizens of Renfrew County presentation? 2. What do the ground plumes referenced in your slides have to do with the NSDF? <p><i>ESC Action 170622:07 – CNL Corporate Communications will send out, via email, a copy of the Concerned Citizens of Renfrew County presentation. Nicole LeBlanc is responsible for this action. ESC member questions in regards to the presentation must be submitted to Nicole LeBlanc, CNL Corporate Communications by 2017 August 30 to ensure a response at the 2017 October 26 ESC meeting.</i></p>
<p>2:00 – 2:15 PM</p>	<p>Bio break</p>
<p>2:15 – 3:00 PM</p> <p>Near Surface Disposal Facility Waste Acceptance Criteria</p> <p>Andy Drom</p>	<p>Andy Drom – Director, Waste Programs at CNL provided a description of the NSDF Waste Acceptance Criteria (WAC). This included general requirements, physical and chemical limits, radiological levels and exceedances, as well as the breakdown of what will go into the NSDF.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Why do you want to include intermediate level waste in the NSDF? 2. Will the intermediate level waste going into the NSDF have a short half-life? 3. Could long-lived intermediate level waste go into the NSDF?



	<ol style="list-style-type: none">4. Who monitors what goes into the NSDF?5. How do you provide assurance when you are dealing with legacy alpha emitting material?6. How can CNL or the Regulator know the impact to the Ottawa River if you don't know exactly what material is going into the NSDF?7. Will the discharge limits that are in place at Perch Lake basin remain the same or will the NSDF affect the limits?8. Can you explain how Table 4-2 in the Performance Assessment (PA) (232-509240-ASD-001) was created? <p><i>ESC Action 170622:08 – ESC members to review the Waste Acceptance Criteria document and any questions in regards to the Waste Acceptance Criteria document must be submitted to CNL Corporate Communications by 2017 August 30 to ensure a response at the 2017 October 26 ESC meeting.</i></p>
3:00 – 3:15 PM In the Community Nicole LeBlanc	Nicole LeBlanc provided an update on CNL activities with the public since the last ESC meeting held in March 2017.
3:15 – 3:30 PM Closing John Vincett	John Vincett gave a recap of the meeting and reviewed the actions and reminded council to fill out evaluation forms. Next ESC meeting date – October 26 at Chalk River Laboratories/Town of Deep River There were no comments on the new actions or the meeting recap.

ESC Participants:

Bruce Biggam, Deep River Horticultural Society
Meredith Brown, Ottawa Riverkeeper
Ron Gervais, City of Pembroke
James Gibson, Municipalité régionale de comté de Pontiac
Ole Hendrickson, Concerned Citizens of Renfrew County
Ken Hooles, Pembroke Area Field Naturalists
Bob MacKenzie, Upper Ottawa Valley Ducks Unlimited
John McKay, Four Seasons Conservancy
Jed Reinwald, Town of Laurentian Hills
Craig Robinson, Old Fort William Cottagers' Association
Theresa Sabourin, Town of Petawawa
Walter Stack, Renfrew County Council

ESC Alternates:

Glenn Doncaster, Town of Deep River
Michelle Perry, Garrison Petawawa
Murray Rutz, Town of Petawawa
Melissa Vekeman, Petawawa Research Forest
Cynthia Williams, Deputy Vice President, HSSE

Canadian Nuclear Laboratories:

Shaun Cotnam, Senior Director, Compliance
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:

Lisa Donnelly, Canadian Nuclear Safety Commission (CNSC)
Mohamed Gacem, Canadian Nuclear Safety Commission (CNSC)
Maude-Émilie Pagé, Atomic Energy of Canada Limited (AECL)

Facilitator:

John Vincett, Public Dialogue Alternatives

Invited Guests:

Javed Anderson, CNL – Used Fuel Technology
Jim Buckley, CNL – NSDF Project
Andy Drom, CNL – Waste Programs
Mike Giardini, CNL – DWM Communications
Kari Richardson, Municipalité régionale de comté de Pontiac
Meggan Vickerd, CNL – NPD Closure Project

Absent:

Peter Arbour, Petawawa Research Forest
Kevin Daniels, Vice President, HSSE
Meghan Hendry, Garrison Petawawa
Wasif Islam, Canadian Nuclear Safety Commission (CNSC)
Marc Laurin, Métis Nation of Ontario, North Bay
Joan Loughheed, Town of Deep River
Jim Meness, Algonquins of Pikwakanagan