

Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #37
Thursday, June 21, 2018 – Best Western Pembroke Inn & Conference Centre, Pembroke, ON
List of Participants noted on last page

<p>9:00 - 9:15 AM</p>	<p>Refreshments</p>
<p>9:15 AM</p> <p>Safety brief, Welcome and Introductions</p> <p>Pat Quinn</p>	<p>Pat Quinn welcomed the council and provided a safety briefing.</p> <ul style="list-style-type: none"> ➤ ESC alternate members <ul style="list-style-type: none"> ○ Melissa Vekeman, Petawawa Research Forest ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Jim Buckley, CNL NSDF Project ○ Nirmal Gnanapragasam, CNL Research & Development ○ Brad Phillips, CNL NPD Closure 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 April 2018.</p> <p>ESC Action 161013:06 – COMPLETE</p> <p>ESC Action 170323:02 – COMPLETE (project suspended)</p> <p>ESC Action 170622:03 – COMPLETE</p> <p>ESC Action 180405:01 – COMPLETE</p> <p>ESC Action 180405:02 – COMPLETE</p> <p>ESC Action 180405:03 – COMPLETE</p> <p>ESC Action 180405:04 – ONGOING – CNL to look into securing an agenda spot at the 2019 Federation of Canadian Municipalities (FCM) Conference. Pat Quinn is responsible for this action.</p> <p>ESC Action 180405:05 – COMPLETE</p> <p>ESC Action 180405:06 – COMPLETE</p> <p>ESC Action 180405:07 – COMPLETE</p>

<p>9:50 – 10:15 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 a re-cap of recent CNL news releases as well as an introduction of CNL’s CERP vision. He also provided an update on the Small Modular Reactor (SMR) siting at Chalk River Laboratories (CRL).</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Will the four SMR designs be available in July 2018? 2. You mention the energy grid, are you going to look at energy distribution as well? 3. Will there be any discussion of utilizing the existing hydraulic stations? 4. How will SMR waste streams be managed? <p><i>ESC Action 1800621:01 – 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.</i></p>
<p>10:15 – 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 addressed ESC Action 170622:03 on water flow monitoring in lakes/ streams at CRL.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. The flow appears to increase over time, was 2017 an expected increase or was it above usual? 2. Do you have weather technology to interpret daily precipitation? 3. What is the time interval or frequency that you gather flow monitoring results? <p><i>ESC Action 180621:02 – Upon completion, CNL will share a copy of the 2017 Chalk River Laboratories Environmental Monitoring Report with ESC members. Nicole LeBlanc is responsible for this action.</i></p>
<p>10:45 – 11:00 PM</p>	<p>Bio break</p>
<p>11:00 AM – 12:00 PM</p> <p>Hydrogen for Greenhouse Gas Reduction: Hydrogen at CRL</p>	<p>Nirmal Gnanapragasam – Process/ Modelling Scientist at CNL gave ESC members a detailed presentation on Hydrogen for greenhouse gas (GHG) reduction. He discussed climate change, GHG and hydrogen’s role, federal and provincial initiatives and also provided an update on CNL’s current role and progress in hydrogen.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. How do you extract the hydrogen from the natural gas line?

Nirmal Gnanapragasam	<ol style="list-style-type: none"> 2. Why are there differences between the flywheel and battery timings? 3. What are the current hydrogen storage options?
12:00 – 12:45 PM	Lunch
12:45 – 1:00 PM	In celebration of National Indigenous Peoples Day, Algonquins Trevor and Chris performed a drum song to open the afternoon session of the meeting.
1:00 – 1:30 PM Decommissioning & Waste Management Update Kurt Kehler	<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. Kurt also addressed ESC Action 180405:05 on waste disposal arrangements with SRB Technologies.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Do you know if airplanes are still tritium powered? 2. What does SRB Technologies pay CNL to receive their waste? 3. Do you have the timeline and route details for the fuel shipments coming from Whiteshell Laboratories?
1:30 – 2:00 PM NSDF Project Update Jim Buckley	<p>Jim Buckley – Near Surface Disposal Facility (NSDF) Project lead at CNL provided details on the NSDF installed groundwater monitoring wells and high volume air samplers. Jim also covered ESC Action 180405:07 on comparing similar facilities to the proposed NSDF that have been closed/ capped for over 10 years.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Based on your NSDF comparisons, which facilities have taken packaged waste? 2. Based on your NSDF comparisons, how many facilities have a clay cap? <p><i>ESC Action 180621:03 – CNL to provide a comparison of similar constructed clay caps to the proposed NSDF. Kurt Kehler is responsible for this action.</i></p>
2:00 – 2:15 PM	Bio break

<p>2:15 – 2:45 PM</p> <p>NPD Closure Project Update</p> <p>Brad Phillips</p>	<p>Brad Phillips – Manager, NPD Engineering at CNL gave a general project update to the council including details on the revised timeline, 2017 environmental performance, and public engagement activities. Additionally, the project team continues to address public comments from the draft Environmental Impact Statement (EIS). Brad also addressed ESC Action 161013:06 on the NPD concrete grout.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you confirm if the bulk fill is 90% Blast Furnace Slag (BFS)? 2. What are the particular qualities/ benefits of the BFS and Portland cement? 3. Will the boiler room (shown in the video) be grouted and entombed? 4. The 2016 Inventory of Radioactive Waste in Canada guide states NPD only has low level waste, can you comment on this? 5. Did the CNSC request the 2018 August 22 - Canadian Nuclear Laboratories Progress Update for CNL’s Prototype Waste Facilities, Whiteshell Laboratories and the Port Hope Area Initiative - public meeting? 6. Will the fill be a continuous pour and how long do you think it will take?
<p>2:45 – 3:00 PM</p> <p>In the Community</p> <p>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 2018 as well as upcoming activities.</p> <p><i>ESC Action 180621:04 – CNL Corporate Communications will send an email to ESC members to provide the date and details on the CNL Community Nature Day at Reilly Bird Nature Reserve. Nicole LeBlanc is responsible for this action.</i></p> <p><i>ESC Action 180621:05 – CNL Corporate Communications will send an email to ESC members to provide the date/s of the NPD public open houses this Summer/ Fall. Nicole LeBlanc is responsible for this action.</i></p>
<p>3:00 PM</p> <p>Closing</p> <p>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 October 18 at Chalk River Laboratories (CRL)</p> <p>There were no comments on the new actions or the meeting recap.</p>

ESC Participants:

Kristi Beatty, Ducks Unlimited
Bruce Biggam, Deep River Horticultural Society
James Gibson, Municipalité régionale de comté de Pontiac
Ole Hendrickson, Concerned Citizens of Renfrew County
Joan Lougheed, Town of Deep River
John McKay, Four Seasons Conservancy
Jed Reinwald, Town of Laurentian Hills
Kari Richardson, Municipalité régionale de comté de Pontiac
Craig Robinson, Old Fort William Cottagers' Association
Walter Stack, Renfrew County Council

ESC Alternates:

Melissa Vekeman, Petawawa Research Forest

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
Meggan Vickerd, CNL – NPD Closure Project

Facilitator:

John Vincett, Public Dialogue Alternatives

Invited Guests:

Jim Buckley, CNL – NSDF Project
Nirmal Gnanapragasam, CNL Research & Development
Brad Phillips, CNL – NPD Closure Project

Absent:

Peter Arbour, Petawawa Research Forest
Meredith Brown, Ottawa Riverkeeper
Ron Gervais, City of Pembroke
Meghan Hendry, Garrison Petawawa
Ken Hooles, Pembroke Area Field Naturalists
Marc Laurin, Métis Nation of Ontario, North Bay
Jim Meness, Algonquins of Pikwakanagan
Theresa Sabourin, Town of Petawawa