

Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #40
Thursday, June 20, 2019 – Chalk River Laboratories, Chalk River, ON
List of Participants noted on last page

9:00 - 9:15 AM	Refreshments
<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 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"> ○ Jacob Edwards, Garrison Petawawa ○ Ann Giardini, Town of Laurentian Hills ○ Larissa Holman, Ottawa Riverkeeper ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Katie Hogue, CNL NSDF Project ○ Gary McRae, Fire Chief, CNL Fire Operations ○ Kristan Schruder, CNL NPD Closure Project ○ Meggan Vickerd, CNL NSDF Project
<p>9:25 – 9:40 AM</p> <p>Review of actions, previous meeting record and new business.</p> <p>Ken Hoffman</p>	<p>John Vincett was unable to attend the ESC meeting due to illness. Therefore, Ken Hoffman was the facilitator in his absence.</p> <p>Ken 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>Ken then reviewed actions updated since the last meeting in March 2019.</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.</p>

	<p>ESC Action 190328:01: COMPLETE ESC Action 190328:02: COMPLETE ESC Action 190328:03: (Part 1) COMPLETE ECS Action 190328:03: (Part 2) ONGOING – The revised NSDF Waste Acceptance Criteria (WAC) will be posted to CNL.ca when available. ESC Action 190328:04: COMPLETE</p>
<p>9:40 – 10:00 AM CNL Business Update Pat Quinn</p>	<p>Pat Quinn – Director, Corporate Communications at CNL provided the ESC with a business update on the upcoming relicensing of Whiteshell Laboratories located in Pinawa, MB. Additionally, he announced the CNSC public meeting on the Regulatory Oversight Report for CNL Sites: 2018 that will be held in Ottawa in November 2019. He also gave a re-cap of CNL news releases since the March 2019 meeting. News releases can be found on CNL.ca.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Will there be an update on small modular reactors today?
<p>10:00 – 10:15 AM Quarterly Environmental Performance Report 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.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. In regards to the public dose trends graph, what are some of the sources of a sampling error? 2. Should CO2 be added to your NOx and SO2 emission graph?
<p>11:45 – 12:15 AM NPD Closure Project Update Kristan Schruder</p>	<p>Kristan Schruder – NPD, General Manager gave a presentation on the applicability of International Atomic Energy Agency (IAEA) guidance to the NPD closure project. Kristan also provided recent chimney swift count numbers as well as past and future public engagement activities.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. How do the swift counts compare to last year at this time? 2. In the 2nd iteration of the post safety closure safety assessment (PostSA) graph, what is the mechanism that supports the peaks at year 1,000 and 100,000? 3. Who determines that NPD meets the IAEA definition of an exceptional circumstance suitable for in-situ disposal? 4. Has the IAEA commented on your in-situ disposal decision? 5. How do you advertise/promote your engagement activities? 6. Does the NPD concrete foundation extend down the entire 80 feet?

10:45 – 11:00 AM	Bio break
<p>11:00 – 11:30 AM</p> <p>Decommissioning & Waste Management 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 HEU fuels and target residue material. He also introduced the new waste characterization facility and an overview on the improvements to the CRL waste programs.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Do you know anything about the McMaster University HEU repatriation program? 2. Does CNL still clean active laundry on site? 3. Are we touring the new Waste Characterization Facility today? 4. Are you required to get a Detailed Decommissioning Plan (DDP) approved for buildings such as B250? 5. The LLW and ILW removed are listed in kilograms, do you have the totals in cubic metres? 6. How are you going to compact or determine the packing density in the NSDF? 7. Do you have data on the contents of the containers in WMA H? 8. Will the waste characterization facility allow the characterization of large items i.e. metals? 9. Where is Spring B located on the CRL site? 10. What contaminants is Spring B filtering? 11. How is CNL compensated for nuclear waste that comes to the CRL site for storage i.e. medical wastes? 12. Can you provide a copy of the questions and answers from the recent AECL public meeting? <p><i>ESC Action 190620:01 – Corporate Communications will send an email to ESC members to provide 2019 September date options for a tour of the new Waste Characterization Facility. Nicole LeBlanc is responsible for this action.</i></p> <p><i>ESC Action 190620:02 – Corporate Communications will provide ESC members with a copy of the questions and answers from the 2019 May 14 AECL public meeting. Nicole Leblanc is responsible for this action.</i></p>
<p>11:30 AM – 12:00 PM</p> <p>NSDF Project Update</p> <p>Meggan Vickerd & Katie Hogue</p>	<p>Meggan Vickerd – Director of the Near Surface Disposal Facility (NSDF) Project provided a project justification and update. Katie Hogue, Manager of Environmental Remediation Projects, discussed the existing wastes stored at the CRL site and how the NSDF would assist with the CRL clean-up plan and site remediation.</p> <p>Meggan also covered ESC Action 190328:04, verifying if the NSDF clay source is Leda clay.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Does Spring B drain into the Perch Lake basin?



	<ol style="list-style-type: none"> 2. Is the WMA C the same type of plume as WMA A? 3. How will you prioritize which WMA wastes will go into the NSDF? 4. Do you have an estimate on the cost of the NSDF waste water treatment facility? 5. What will it cost annually to operate the NSDF waste water treatment facility? 6. How much of the CRL WMA wastes will meet the NSDF waste acceptance criteria? 7. Can you arrange for a presentation on Carbon-14 at a future ESC meeting? 8. Can you arrange for a presentation on the cemented Moly-99 waste at a future ESC meeting? 9. What were the groundwater elevation levels during the 2017 and 2019 flooding? 10. Do you collect data on the snow packs in the watersheds at CRL? 11. Is there any ground contaminant movement at WMA F? 12. Is the material at WMA F considered low level waste? <p><i>ESC Action 190620:03 – CNL to provide a presentation at a future ESC meeting on Carbon-14 at the CRL site. Mike Gull is responsible for this action.</i></p> <p><i>ESC Action 190620:04 – CNL Corporate Communications will send Ole Hendrickson the 2017 June Decommissioning & Waste Management Update presentation which included the future approach to disposition Cemented Moly-99 waste at CRL. Nicole LeBlanc is responsible for this action.</i></p> <p><i>ESC Action 190620:05 – CNL to provide ESC members with the groundwater elevation levels during the 2017 and 2019 flooding at the 2019 October meeting. George Dolinar is responsible for this action.</i></p>
12:00 – 12:30 PM	Lunch
12:30 – 1:00 PM Forest Fire Prevention at CRL Chief Gary McRae	Chief Gary McRae – CRL Fire Operations gave an overview presentation on the CRL Fire Protection Program which also included general fire prevention, forest fire prevention and the emergency response capabilities of the CRL Fire Operations. QUESTIONS: <ol style="list-style-type: none"> 1. Have you considered introducing the FireSmart Program to the Deep River and CRL Fire department?



1:00 – 1:15 PM Closing prior to CRL Site Tour Ken Hoffman	Ken Hoffman gave a recap of the meeting and reviewed the actions and reminded council to fill out evaluation forms. Next ESC Meeting – 2019 October 24 at the Best Western Pembroke Inn, Pembroke, ON. There were no comments on the new actions or the meeting recap.
1:15 – 3:15 PM CRL Site Tour	CRL Tours: <ul style="list-style-type: none">• Fire Training Centre• ERM Waste Management Areas A, D, F, G, H and Liquid Dispersal Area



ESC Participants:

Bruce Bigham, Deep River Horticultural Society
James Brose, Renfrew County Council
Sue D'eon, Town of Deep River
James Gibson, Municipalité régionale de comté de Pontiac
Ted Hiscock, Pembroke Area Field Naturalists
Ole Hendrickson, Concerned Citizens of Renfrew County
Larissa Holman, Ottawa Riverkeeper
John McKay, Four Seasons Conservancy
Kari Richardson, Municipalité régionale de comté de Pontiac
Craig Robinson, Old Fort William Cottagers' Association

ESC Alternates:

Jacob Edwards, Garrison Petawawa
Anne Giardini, Town of Laurentian Hills

Canadian Nuclear Laboratories:

George Dolinar, Environmental Program Authority
Mike Giardini, ERM Communications Officer, Corporate Communications
Mike Gull, Vice President, Environmental Remediation Management (ERM)
Nicole LeBlanc, Communications Officer, Corporate Communications
Pat Quinn, Director, Corporate Communications

Invited Observers:

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

Facilitator:

Ken Hoffman, Facilitator

Invited Guests:

Katie Hogue, CNL – Environmental Remediation Projects
Gary McRae, CNL – Fire Operations
Kristan Schruder, CNL – NPD Closure Project
Meggan Vickerd, CNL – NSDF Project

Absent:

Peter Arbour, Petawawa Research Forest
Kristi Beatty, Ducks Unlimited
Shaun Cotnam, Senior Director, Compliance
Ron Gervais, City of Pembroke
Meghan Hendry, Garrison Petawawa
Marc Laurin, Métis Nation of Ontario, North Bay
Mark Lesinski, President & CEO
Jim Meness, Algonquins of Pikwakanagan
Jed Reinwald, Town of Laurentian Hills
Murry Rutz, Town of Petawawa
Cynthia Williams, Vice President, HSSE