



Environmental Stewardship Council (ESC)
 MEETING NOTES FOR MEETING #44 (DRAFT UNTIL ACCEPTED)
 Thursday, March 25, 2021 – Microsoft
 Teams
 Meeting List of Participants noted on
 last page

<p>9:00 – 9:05 AM</p> <p>Safety brief, Welcome and Introductions</p> <p>Pat Quinn</p>	<p>Pat Quinn, Director, Corporate Communications and Facilitator for this meeting. Welcomed all participants, did an orientation to Microsoft Teams and introductions of those at the meeting and how the meeting would proceed in this format. Meeting Notes and Actions from the October meeting were reviewed and approved.</p> <ul style="list-style-type: none"> ➤ ESC guest observers <ul style="list-style-type: none"> ○ Maude Page, Atomic Energy of Canada Ltd. ➤ ESC guest speakers <ul style="list-style-type: none"> ○ Gordon Burton, CNL ○ Nirmal Gnanapragasm, CNL ○ Meggan Vickerd, CNL ○ Katie Hogue, CNL
<p>9:05 – 9:40</p> <p>Business Update</p> <p>Joe McBrearty</p>	<p>Joe McBrearty, gave the Business Update which included: the “new CNL” video, an update on progress on site, an update on COVID-19 response, an introduction to Vision 2030 and media coverage.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. What does D&D stand for?
<p>9:40 – 10:00 AM</p> <p>Environmental Monitoring</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 and information on CRL’s IAA postings.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you provide a status update for the monitoring of Chimney Swifts at the Moly stack? 2. Could you provide more details about the "Canadian Nuclear Laboratories Heel Storage Removal Project" (Canadian Impact Assessment Registry reference # 81403)? Does this project refer to the sludge in one of the high-level liquid waste tanks? If so, which tank? Is it correct to say that the CNSC must give formal approval before the project starts? At what level would approval be given?



<p>10:00 – 10:45 NPD/NSDF Update Katie Hogue Meggan Vickerd</p>	<p>Katie Hogue, Manager, NPD Regulatory Approvals and Meggan Vickerd, Director, NSDF project, provided an update on both projects including: Fact or Fictions, timelines, Indigenous and Stakeholder engagement activities.</p> <p>QUESTIONS</p> <ol style="list-style-type: none">1. Even limited amounts of hazardous wastes are still hazardous wastes?2. Is it the case that the nitrate pit, the ACS pit, the thorium pit, the bulk storage, and the waste management areas (WMAs) B to H will not be transferred into the NSDF and will remain sources of contamination?3. Would it be possible to transfer those WMAs to the NSDF and remain within the licensed inventory?4. Do you have characterization data for those WMAs?
<p>10:45 – 10:55</p>	<p>Bio Break</p>
<p>10:55 – 11:40AM CNL’s Hydrogen work Gordon Burton Nirmal Gnanapragasam</p>	<p>Gordon Burton, Manager, Hydrogen Technologies and Nirmal Gnanapragasam, Modelling Scientist, Hydrogen Technologies, presented on CNL’s Hydrogen Program and the Marine Sector using Hydrogen and Ammonia. The presentation included: NrCan’s Hydrogen Strategy, CNL’s research supporting Hydrogen cycle, Greenhouse Gas reductions in the Marine Transport sector, the role of Hydrogen and Ammonia, CNL’s role in Maritime Hydrogen sector and CNL and Transport Canada’s joint work.</p> <p>Questions:</p> <ol style="list-style-type: none">1. Would it not be more efficient to use electricity directly in a car rather than developing new infrastructure to use hydrogen?2. Use of ammonia as an alternative fuel - will this reduce GHG emissions? How would the ammonia be produced?3. FC = fuel cell, ICE = ?4. Back in the late 50’s/60’s Chrysler had Hydrogen vehicles, have you looked into this as a basis for the Hydrogen fuels you are looking at now?5. Has there been any conversations on how commercial vessels with nuclear power would be regulated, especially as they move into international waters?6. Would H- or NH3-powered ships produce less underwater noise?



<p>11:40 – 12:00PM</p> <p>Environmental Remediation 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.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none">1. Do you have an estimate of the total volume of the waste?2. B440 doesn't have much radiation in it does it? <p><i>210325:01 Action – Provide a more detailed presentation on the waste volumes and types at CRL to the ESC at an upcoming meeting.</i></p>
<p>12:00 – 12:15 PM</p> <p>Recap & Review of Actions</p> <p>Pat Quinn</p>	<p>Pat Quinn, Director of Corporate Communications at CNL and acting Facilitator reviewed the presentations, questions, and the one action. He discussed June 24, 2021 as the potential date for the next meeting, with confirmation that an email will be sent with the meeting date in the future.</p>

ESC Participants:

Meghan Hendry, Garrison Petawawa
Heidi Erdle, Petawawa Research Forest
Brian Hunt, Renfrew County Council
Sue D'Eon, Town of Deep River
Susan Miller, Deep River Horticultural Society
Kari Richardson, Municipalité régionale de comté de Pontiac
Larissa Holman, Ottawa Riverkeeper
James Gibson, Municipalité régionale de comté de Pontiac
John McKay, Four Seasons Conservancy
Ole Hendrickson, Concerned Citizens of Renfrew County
Murry Rutz, Town of Petawawa
Ted Hiscock, Pembroke Area Field Naturalists
Ron Gervais, City of Pembroke

ESC Alternates:

Facilitator:

Pat Quinn, CNL

Invited Guests:

Meggan Vickerd, CNL – NSDF Project
Katie Hogue, CNL – NPD Project
Gordon Burton, CNL – Hydrogen Technologies
Nirmal Gnanapragasam, CNL – Hydrogen Technologies

Canadian Nuclear Laboratories:

Shaun Cotnam, Senior Director, Compliance
George Dolinar, Environmental Program Authority
Mike Gull, Vice President, Environmental Remediation Management (ERM)
Lauren Kinghorn, Communications Officer, Corporate Communications
Mitch MacKay, ERM Communications Manager, ERM
Pat Quinn, Director, Corporate Communications
Jeff Willman, Vice President, HSSE

Invited Observers:

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

Absent:

Marc Laurin, Métis Nation of Ontario, North Bay
Kristi Beatty, Upper Ottawa Valley Ducks Unlimited
Jim Meness, Algonquins of Pikwakanagan
Jed Reinwald, Town of Laurentian Hills
Craig Robinson, Old Fort William Cottagers' Association