

**Environmental Stewardship Council (ESC)**  
**MEETING NOTES FOR MEETING #31 (DRAFT UNTIL ACCEPTED)**  
**Thursday, June 16, 2016 – CNL Chalk River Laboratories/Nuclear Power Demonstration (NPD) – Chalk River/Rolphton, ON**  
**List of Participants noted on last page**

1:30 - 2:00 PM	Refreshments
2:00 PM  Safety brief, Welcome and Introductions  Pat Quinn	Pat Quinn welcomed the council and provided a safety briefing. <ul style="list-style-type: none"> <li>➤ ESC alternate members               <ul style="list-style-type: none"> <li>○ Matthew Cybulski, Garrison Petawawa</li> <li>○ Ann Giardini, Town of Laurentian Hills</li> <li>○ John Muff, Pembroke Area Field Naturalists</li> <li>○ Cynthia Williams, CNL</li> </ul> </li> <li>➤ ESC guest speakers               <ul style="list-style-type: none"> <li>○ Jim Buckley, CNL</li> <li>○ Brian Colby, CNL</li> <li>○ Annie Morin – CNL</li> <li>○ Sue Titterington – CNL</li> </ul> </li> </ul>
2:10 – 2:20 PM  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 2016.  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 160324:2 – ONGOING – Environmental Stewardship Council - Terms of Reference (TOR) have not been updated since 2010; CNL Corporate Communications will update the TOR for the ESC membership and alternate list for review and approval. Nicole LeBlanc is responsible for this action.

<p>2:20 – 2:35 PM</p> <p>CNL Business Update</p> <p>Mark Lesinski</p>	<p>Mark Lesinski – President &amp; CEO at CNL provided the ESC with a business update on the April CNSC – CRL licence amendment hearing, making Vision 2026 a reality including environmental stewardship, science &amp; technology and operations. He also discussed the Voluntary Separation Program (VSP), a new employee program and the recent rod bay fuel caddy and ZED-2 heavy water loss events.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> <li>1. As part of the 10 year plan, are you planning to pursue any research on the linear no threshold biological effect of low level ionizing radiation?</li> <li>2. Do you have any further information on the rumoured fire incident?</li> </ol> <p><i>ESC Action 160616:01 – Does the CNSC have plans to pursue any research on the linear no threshold biological effect of low level ionizing radiation? Wasif Islam (CNSC) is responsible for this action.</i></p>
<p>2:35 – 3:00 PM</p> <p>Decommissioning &amp; Waste Management Update</p> <p>Kurt Kehler/Jim Buckley</p>	<p>Kurt Kehler – Vice President, Decommissioning and Waste Management 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. Incorporated into Kurt’s presentation, Jim Buckley gave an overview on the Near Surface Disposal Facility (NSDF) including an overview of the project, proposed sites, and public communications activities related to the NSDF and NPD.</p> <p>QUESTIONS (Kehler):</p> <ol style="list-style-type: none"> <li>1. Do any of the buildings planned for decommissioning and demolition have large chimneys attached to them?</li> </ol> <p>QUESTIONS (Buckley):</p> <ol style="list-style-type: none"> <li>1. How large and what would the depth be of the NSDF?</li> <li>2. Where will you source the clay for the facility?</li> <li>3. How long does the waste stay in the ground and what is done when it is decontaminated?</li> <li>4. Would this facility sustain glaciation?</li> <li>5. How long will it be radioactive?</li> <li>6. How much long-lived radionuclides will be in the facility?</li> </ol>
<p>3:00 – 3:15 PM</p>	<p>Bio break</p>

<p>3:15 – 3:30 PM</p> <p>Approach to Environmental Remediation at CRL</p> <p>Brian Colby</p>	<p>Brian Colby – Director, Waste Management &amp; Environmental Remediation Projects at CNL gave an introductory presentation on the approach to environmental remediation at CRL.</p>
<p>3:30 – 3:45 PM</p> <p>What is an Environmental Assessment?</p> <p>George Dolinar</p>	<p>George Dolinar – Environmental Program Authority within the Environmental Protection Branch (EPB) at CNL explained to members the process and overview of an Environmental Assessment.</p> <p><i>ESC Action 160616:02 – Describe opportunities to comment and share feedback of group one and group two chapters of the NSDF environmental assessment to ESC members. George Dolinar is responsible for this action.</i></p>
<p>4:00 – 5:30 PM</p> <p>Site Tour - NSDF</p> <p>Jim Buckley/Annie Morin/Sue Titterington</p>	<p>Tour of Near Surface Disposal Facility - East Mattawa Road Site &amp; Site 11A proposed sites</p> <ul style="list-style-type: none"> <li>• Ecological Study</li> <li>• Archaeological Study</li> </ul> <p>QUESTIONS:</p> <ol style="list-style-type: none"> <li>1. What is meant by valued components?</li> <li>2. Are there any species at risk that are birds and can they be re-located?</li> <li>3. Will your reports indicate how you will mitigate species at risk?</li> <li>4. What is the date to complete alternative means?</li> <li>5. Will we see the alternative means presented at the ESC?</li> <li>6. Looking at the map it doesn't line up with the site footprint schematic found on the poster board, why is this?</li> <li>7. Is Perch Lake self-contained?</li> <li>8. What is the dark green area on the map?</li> <li>9. Do you have a topographic map?</li> <li>10. Is the light green area wetlands?</li> <li>11. Is this facility similar to the WMA-C?</li> <li>12. When the facility is capped and the grass is down, what is the radioactivity off the top?</li> <li>13. Which of the purple are will be cleared first? (Note purple indicates EMR and 11A locations)</li> </ol>



	<p>14. Can you provide present day examples of this technology and how old are some of these facilities?  15. Can you provide examples of facilities that are located in a similar climate, geology (earthquake), soil type etc.?  16. Could you provide us with some examples of NSDF?  17. What was the pre 1945 population of the general area before expropriation of the CRL land?  18. Which site affects the environment more, the 11A site appears to have less environment impact?  19. Could Plutonium material be disposed of in the NSDF?</p> <p><i>ESC Action 160616:03 – Provide information to ESC members referencing where (globally), the current NSDF design has been implemented at other nuclear sites. Jim Buckley/Mitch MacKay are responsible for this action.</i></p>
<p>7:00 – 7:15 PM</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 an update on current activities. These included:</p> <ul style="list-style-type: none"> <li>• ISO 14001 Re-registration Audit</li> <li>• Potable water supply project update (start of construction on CRL property)</li> </ul> <p>George also addressed ESC Action 160324:01 providing information and a hand-out to address and complete the action.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> <li>1. Are turtle rescues on Plant Road reported?</li> </ol>
<p>7:15 – 7:30 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 – Thursday, October 13, 2016 at Best Western Pembroke Inn.</p> <p>There were no comments on the new actions or about the recap of the meeting.</p>
<p>8:00 – 9:30 PM</p> <p>Site Tour – NPD</p> <p>Pat Daly/Annie Morin/Meggan Vickard</p>	<p>NPD Site – Viewing of Chimney Swift Roosting</p> <ul style="list-style-type: none"> <li>• Roosting is scheduled to begin around sunset ~ 9:03 p.m.</li> </ul> <p>QUESTIONS:</p> <ol style="list-style-type: none"> <li>1. Why is the callandria being left in place?</li> <li>2. Does the CNSC have any questions about this option?</li> <li>3. Have you considered alternate means; taking callandria out?</li> </ol>



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|  | <ol style="list-style-type: none"><li>4. How often has the relocation of chimney swifts been attempted?</li><li>5. How far away do they fly in the winter?</li><li>6. How will you identify the time period for the stack removal?</li><li>7. Where are the chimney swifts reproducing?</li><li>8. Are the swifts nesting in the chimney?</li><li>9. How do they hang upside down?</li><li>10. Is there a protocol on how you count the swifts?</li></ol> |
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**ESC Participants:**

Peter Arbour, Petawawa Research Forest  
Bruce Bigham, Deep River Horticultural Society  
James Gibson, Municipalité régionale de comté de Pontiac  
Ken Hooles, Pembroke Area Field Naturalists  
Marc Laurin, Métis Nation of Ontario, North Bay  
Joan Lougheed, Town of Deep River  
John McKay, Four Seasons Conservancy  
Craig Robinson, Old Fort William Cottagers' Association  
Theresa Sabourin, Town of Petawawa

**ESC Alternates:**

Matthew Cybulski, Garrison Petawawa  
Ann Giardini, Town of Laurentian Hills  
John Muff, Pembroke Area Field Naturalists  
Cynthia Williams, Health, Safety, Security and Environment (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  
David Lee, Environmental Scientist, Environmental Technologies  
Mark Lesinski, President & CEO  
Steve Liblong, Director, DWM S&T Transition Advisor  
Mitch MacKay, Communications Officer, DWM  
Pat Quinn, Director, Corporate Communications

**Invited Observers:**

Wasif Islam, Canadian Nuclear Safety Commission (CNSC)  
Page, Maude, Director of Communications, AECL

**Facilitator:**

John Vincett, Public Dialogue Alternatives

**Invited Guests:**

Buckley, Jim, CNL  
Colby, Brian, CNL  
Morin, Annie, CNL  
Titterington, Sue, CNL

**Absent:**

Meredith Brown, Ottawa Riverkeeper  
Kevin Daniels, General Manager, HSSE  
Christina Davis, Ontario Ministry of Natural Resources & Forestry  
Steve Gutzman, Parkline Sportsmen Club  
Meghan Hendry, Garrison Petawawa  
Robert Kingsbury, Renfrew County Council  
Bob MacKenzie, Upper Ottawa Valley Ducks Unlimited  
Jim Meness, Algonquins of Pikwakanagan  
Jed Reinwald, Town of Laurentian Hills