



Environmental Stewardship Council (ESC)
MEETING NOTES FOR MEETING #45(DRAFT UNTIL ACCEPTED)
Thursday, June 24, 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>Tim Fleming</p>	<p>Pat Quinn, Director, Corporate Communications welcomed all participants, did a safety brief and introduced and Tim Fleming as the Facilitator for this meeting. Tim proceeded with an introduction, guidelines for the meeting and review and acceptance of the Meeting Notes and Actions from the March meeting.</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"> ○ Mike Labriola, CNL ○ Sandra Faught, CNL ○ Katie Shorter, CNL ○ Aimee Rupert, CNSC ○ Matthew Naraine, CNSC ○ Nana Kwamena, CNSC ○ Sarah Eaton, CNSC
<p>9:05 – 9:40 AM</p> <p>Business Update</p> <p>Dan Wood, Chief Operating Officer, CNL</p>	<p>Dan Wood gave the Business Update which included: an acknowledgement of items done for National Indigenous History month and National Indigenous People’s day, an update on progress on site, an update on COVID-19 response and review of issued community information bulletins.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Where did the shipment go that was in the Community Information Bulletin? Who was the receiver? –Answered with the below action being created. 2. Is it common to be sending shipments to offsite vendors? – Answered in session 3. TRISO Pellets do they eventually get inserted into Fuel Rods? – Answered in session 4. What happened to the radioactive material that was not expected in that package? – Answered in session



	<i>ESC Action 210624:01 - A written summary of the Community Information Bulletin is to be provided to ESC members, regarding a shipment of controlled item that had been received by a vendor, but was not on the register.</i>
<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 information on CRL’s active Impact Assessment Agency of Canada (IAAC) postings.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Last year's Annual Compliance Monitoring Report - ENVIRONMENTAL MONITORING IN 2019 AT CHALK RIVER LABORATORIES - is dated June 25th. When the 2020 ACR be released? – Answered in session. 2. With regard to Section 82 projects, why was the CNL Access Road upgrade project suspended? – Answered in session. 3. Is there a way to know when new projects are posted on the IAA website? – Answered in session. 4. Is there a plan to bring large quantities of additional material through that access road, as was the case in 1979? – Answered in session.
<p>10:00 – 10:45 AM</p> <p>Nuclear Power Demonstration (NPD) Update</p> <p>Katie Shorter</p>	<p>Katie Shorter, Manager, NPD Regulatory Approvals provided an update on NPD activities including: the timeline, Species at Risk mitigation work and an update on Indigenous and Stakeholder engagement activities.</p> <p>There were no questions from the ESC.</p>
<p>10:45 – 10:55 AM</p>	<p>Break</p>
<p>10:55 – 11:40 AM</p> <p>Near Surface Disposal Facility (NSDF) Update</p> <p>Sandra Faught Mike Labriola</p>	<p>Sandra Faught, Manager, NSDF Regulatory Approvals and Mike Labriola, NSDF Safety and Licensing Analyst, gave an NSDF update including: submission of the final Environmental Impact Statement (EIS) to the CNSC and the safety case for the NSDF project.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. There is a lot of public opposition to the NSDF. How are you handling that? – Answered in session. 2. The NSDF EIS says “The purpose of the NSDF Project is to provide the permanent disposal of current and future LLW at the CRL site...” What proportion of current LLW at CRL could be put in the NSDF without exceeding the proposed licensed inventory? – Answered in session.



	<ol style="list-style-type: none"> 3. Will the EIS be changed to reflect that certain cobalt-60 "disused sealed sources" are classified by the International Atomic Energy Agency as intermediate-level waste? – Answered in session with Action listed below. 4. Can cobalt-60 sources be ILW when put in the NSDF, but 300 years later they would not be ILW? – Answered in session. 5. Why has 95% of the ILW at CRL that was reported in the 6th national report to the IAEA now disappeared in the 7ty report? – Answered in session. <p><i>ESC Action 210624:02 - A presentation at an upcoming ESC on the Waste Acceptance Criteria and the levels of the materials planned for disposal in the NSDF. Note that this will include further information on the classification and storage of cobalt-60 "disused sealed sources".</i></p>
<p>11:40 – 12:00PM</p> <p>Environmental Remediation Management Update</p> <p>Kristan Schruder</p>	<p>Kristan Schruder – Deputy Vice President, Environmental Remediation Management (ERM) at CNL provided an update about facilities decommissioning milestones being reached, waste management including waste numbers and environmental remediation.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Renfrew and Pontiac Counties only? Answered in session. 2. Are there waste characterization data for the 14,000 kg of LLW from B440? Answered in session. 3. What radionuclides are contributing to the radioactive contamination of the concrete and of the asbestos? Answered in session. 4. "Not yet generated" - if contaminated soil is in the ground, but not yet pulled out, it's not considered to be waste? Answered in session. 5. Could CNL provide a report that explains these changes in the waste inventory? Answered in session. 6. I'm interested in half-lives of the waste generated in 2020. Are data available? Answered in session. 7. Will the heavy water shipped to LaPrade be shipped back to CRL for treatment at this new facility? Answered in session. 8. Why a new ILW facility instead of additional SMAGS? Answered in session. 9. Will the new ILW facility be used for decommissioning wastes from other closed federal reactor facilities? Answered in session. 10. Fuel shipments to the new cask facility - where would these fuels be coming from? Answered in session. <p><i>ESC Action 210624:03 – Provide a presentation on the waste characterization data for the LLW and the half lives of the radionuclides that were included in the 2020 numbers related to decommissioning project B440.</i></p> <p><i>ESC Action 210624:04 – Provide slides on Waste Characterization practices at an upcoming ESC meeting.</i></p>



<p>12:30 – 1:15 PM</p> <p>Canadian Nuclear Safety Commission (CNSC) Presentation: Micro Modular Reactor (MMR) Project</p> <p>Aimee Rupert Matthew Naraine Sarah Eaton</p>	<p>CNSC guests Aimee Rupert, Senior Communications Advisor, Matthew Naraine, Project Officer, New Major Facilities Licensing Project Division, Dr. Nana Kwamena, Director, Environmental Assessment Division, and Sarah Eaton, Director, New Major Facilities Licensing Division provided an update and answered questions related to the Micro Modular Reactor Project and ongoing Environmental Assessment (EA) and licensing assessment.</p> <p>QUESTIONS:</p> <ol style="list-style-type: none"> 1. Did CNSC make an offer of participant funding in late April? – Answered in session. 2. Does a licence to prepare site include considerations of a financial guarantee for decommissioning the facility? – Answered in session. 3. In considering the evidence, does the CNSC and Environmental Assessment process consider the significant environmental benefits of nuclear power as well as the potential risks? – Answered in session. 4. The CNSC has proposed that proponents assess the total GHG production as part of CNSC-led environmental assessments. This assessment will be achieved through the use of a lifecycle analysis approach that includes estimation of upstream and downstream GHG emissions. Will the CNSC require such a life cycle GHG assessment for the MMR project? – Answered in session. 5. I would also like to hear how decommissioning will be taken into consideration within this process, what is the expectation for the waste produced at this site, specifically non-fuel related waste. How will this reflect the expectations of future MMR and SMR projects? – Answered in session. 6. Just to be clear, then, the issue of waste management will be dealt with at a later stage when the proponent develops a waste mgt plan? – Answered in session. 7. Given that this project is being done in the Ottawa River Watershed, what is the geographical area you are limited to? – Answered in session. 8. Would communities such as Ottawa or Gatineau be considered for feedback? – Answered in session. 9. For comparison, under the EA Process, does the EA process for an oil and gas project installation consider the lifecycle GHG emissions of that project or just the construction emissions only? – Answered in session.
<p>1:15 – 1:40 PM</p> <p>Recap & Review of Actions</p> <p>Tim Fleming</p>	<p>Tim Fleming, ESC Facilitator reviewed the presentations, questions, and the five actions. He confirmed October 21, 2021 as the date for the next meeting, with confirmation that an email will be sent with the meeting date in the future. It is anticipated the next meeting may be an on-site visit with a facility tour, dependent on the Public Health Guidance related to the unfolding Covid-19 situation in the Province. This would mean holding a shorter morning meeting, followed by an afternoon tour. Possible new business and agenda items for future sessions were discussed, including a Science and Technology (S&T) update, Liquid Waste Tank Farm status update and a tour of the waste characterization facility. The agenda is to be determined closer to the date.</p>



QUESTIONS:

1. I'd like to see the new waste characterization facility on a site tour. – Answered in session (Virtual tour is happening in August, but if ESC is on site in October the facility is listed to be toured)

ESC Action 210624:05 – Provide information on the legacy tank cleanup efforts including the recipe used to solidify the liquid wastes at an upcoming ESC meeting.

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
Craig Robinson, Old Fort William Cottagers' Association
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:**

Tim Fleming, Independent Professional Facilitator

Invited Guests:

Sandra Faught, CNL – NSDF Project
Mike Labriola, CNL – NSDF Project
Katie Shorter, CNL – NPD Project
Aimee Rupert, CNSC
Matthew Naraine, CNSC
Nana Kwamena, CNSC
Sarah Eaton, CNSC

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:

Métis Nation of Ontario, North Bay
Kristi Beatty, Upper Ottawa Valley Ducks Unlimited
Algonquins of Pikwakanagan
Jed Reinwald, Town of Laurentian Hills