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Stakeholder Engagement Report - Nuclear Power Demonstration Closure Project

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Revision 1.0

Authored by:	Rachel Chennette	2024/08/02	
	Communications Officer	Date	
Reviewed by:	Kathryn Shorter	2024/08/02	
	Acting Director, NPD Closure Project	Date	
Approved by:	Nicole LeBlanc	2024/08/08	
	Manager, Communications & Engagement	Date	

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1. Introduction

This document is Canadian Nuclear Laboratories (CNL) Stakeholder Engagement Report in support of the Nuclear Power Demonstration (NPD) Closure Project. As public engagement is a key element of the federal Environmental Assessment (EA) process, the purpose of this report is to describe past, ongoing and proposed public and stakeholder engagement activities in accordance with the requirements for a designated project under the Canadian Environmental Assessment Act (CEAA 2012).

This document summarizes the public engagements activities undertaken for the NPD Closure Project from 2017 April to 2024 January. During the COVID-19 pandemic, CNL held virtual rather than in-person engagement activities in keeping with public health guidelines. Future planned engagements as the project proceeds through the Environmental Assessment process are identified at a high level and will be captured in future Stakeholder Engagement Reports. Engagement with Indigenous, Nations, communities and organizations is documented in CNL's Indigenous Engagement Report – NPD.

1.1 Acronyms

AECL	Atomic Energy of Canada Limited
CEAA	Canadian Environmental Assessment Agency
CAN	Canadian Nuclear Association
CELA	Canadian Environmental Law Association
CNL	Canadian Nuclear Laboratories
CNS	Canadian Nuclear Society
CNSC	Canadian Nuclear Safety Commission
CRL	Chalk River Laboratories
D&WM	Decommissioning and Waste Management
EIS	Environmental Impact Statement
ERM	Environmental Remediation Management
ESC	Environmental Stewardship Council
IAEA	International Atomic Energy Agency
ISD	In situ disposal
MP	Member of Parliament
MPP	Member of Provincial Parliament
MRC	Municipalité régionale de comté
NGO	Non-Governmental Organization
NPD	Nuclear Power Demonstration
NSDF	Near Surface Disposal Facility
NWMDER	Nuclear Waste Management Decommissioning and Environmental Remediation

OFWCA	Old Fort William Cottagers' Association
PEO	Professional Engineers of Ontario
PFP	Participant Funding Program
PostSA	Postclosure Safety Assessment
RPIC	Real Property Institute of Canada
TOKTWD	Take Our Kids to Work Day

1.2 Effect of the COVID-19 Pandemic on Engagement

Since 2020 March, the COVID-19 pandemic has directly impacted face-to-face and public interactions around the world, including those under CNL's public engagement program. CNL successfully transitioned to virtual activities as the standard for engagements in 2021, ensuring that its engagement strategies were resilient in the face of the challenges presented by the pandemic. CNL continued to host virtual and hybrid events through 2023 and into 2024.

Social media platforms were a useful means of communicating and connecting with stakeholders and Indigenous communities during the pandemic when in-person engagements were restricted.

2. Engagement Objectives

CNL is required to ensure that project information is made available to local and host communities, and to other stakeholders through a variety of mechanisms to ensure access to factual information.

CNL's communication objectives include the following:

1. Initiate and maintain two-way communication channels between CNL and host communities and with other stakeholders, determining the best methods for communicating NPD Closure Project information and facilitating input at appropriate junctures in the NPD Closure Project schedule, so that stakeholder feedback can be integrated into the NPD Closure Project planning and design, as appropriate.
2. Develop meaningful, user-friendly information and communication products geared for host communities and stakeholders, ensuring access to current information on NPD Closure Project activities.
3. Demonstrate CNL's long-term commitment and approach to safely managing radioactive waste and decommissioning activities to the benefit of future generations.
4. Inform and educate host communities and stakeholders about nuclear decommissioning, environmental remediation and radioactive waste management.
5. Meet all regulatory-based communication and engagement requirements.

CNL employs a variety of methods and activities to achieve these objectives, which are summarized in Section 3.0. Each method or activity is undertaken to inform, educate, and facilitate discussion with and solicit feedback from specific stakeholders on the NPD Closure Project. As discussed in Section 1.2, CNL adapted its engagement strategy and tactics in response to the COVID-19 pandemic. Feedback received is summarized in Section 4.0, and an overview of planned future engagements is provided in Section 5.0.

2.1 Evaluation

The engagement objectives discussed in Section 2 above are used to measure the effectiveness of communication activities as well as the evolving nature of the communication strategy of the NPD Closure Project. At events and activities, CNL evaluates several public engagement indicators including: level of participant satisfaction, audience representation, level of engagement with subject matter experts (SMEs), level of understanding of the project, and level of increased project understanding of community and stakeholder issues.

Through the use of various flexible modes of communication and public engagement, CNL has been able to engage a wider audience (demographically and geographically) who may have a stake in the development of the NPD Closure Project. By enabling two-way dialogue and implementing these accessible engagement mechanisms in the planning of the project, CNL has been able to adapt and respond to stakeholders' changing need for information. The project's routine self-assessment of its public engagement activities as well as public feedback will enable CNL to continuously evaluate the effectiveness of its engagement efforts.

Objective 1: Initiating and maintaining two-way communication channels between CNL and host communities and stakeholder groups, determining the best methods for communicating project information and facilitating input at appropriate junctures in the project schedule.

CNL has initiated and maintained a progressive number of communication channels between CNL host communities and stakeholder groups. Since CNL first initiated dialogue on the NPD Closure Project at an

Environmental Stewardship Council (ESC) meeting in October 2015, CNL has adapted and evolved techniques for communicating project information and facilitating input. Two early techniques included providing regular updates at ESC meetings and hosting public information sessions in local communities. Over the past four years, updates to the ESC have been consistently maintained at each of the three annual ESC meetings.

In response to public feedback, public information sessions, which were originally held in seven local communities (14 times in 2016), were expanded geographically to include Arnprior and L'Isle-aux Allumettes (Chapeau) in 2017. Finally, the format of public information sessions evolved into an online webinar – with simultaneous translation – in 2018, held on a quarterly basis. This adaption was in response to continued interest in having more information available in French, for Quebec, the Ottawa-Gatineau region and more. The newer online webinar format ensures accessibility for stakeholders in a wide range of places and for both French and English speaking stakeholders. Other feedback on engagement techniques emphasized the need to create ongoing channels of communications with the local community of scientific experts. In response, CNL established semi-monthly Breakfast Briefings in 2019 April with sessions in Deep River and Pembroke. CNL has started to offer one-on-one meetings with intervenors, with simultaneous translation if applicable. As COVID-19 pandemic restrictions were lifted, CNL begun the return to in-person activities, hosting the 60th Anniversary Open House, eight Public Information Sessions in Renfrew County and the Pontiac region, and the Chimney Swift Count night in 2022 and 2023.

The feedback that was used to evolve these techniques was obtained through both comments on the draft EIS and from CNL's own feedback mechanism, which have themselves been improved. Hard copy feedback forms were supplanted with an online feedback form and email has been a common tool used to connect stakeholders with CNL. CNL's email distribution list (has continued to grow and be used to disseminate information, project milestones and timeline activities), social media, traditional media, telephone, ESC, Ottawa Valley Economic Development (OVED), municipal council meetings, meetings with service clubs and at public events / fairs. CNL continues to receive, track and assess feedback for future planning.

Objective 2: Developing meaningful, user-friendly information and communication products geared for host communities and stakeholders, ensuring accessible and current information on project activities.

CNL has developed a variety of simple, user-friendly communications products that are accessible and meaningful to a broad audience in both official languages. One example of this is the NPD timeline graphics. The original timeline graphic was posted in 2018 and has since been regularly updated to reflect the ongoing regulatory process. This was developed to address public interest in the progress and steps in the Environmental Assessment. The use of video was also essential to create user-friendly and accessible communications. Online webinars were posted to YouTube. Additionally, CNL created three videos on themes that were discerned from public feedback, including a video tour of the NPD facility. This video has garnered over 1,500 views since its publication in 2018.

Other innovations in CNL's communication techniques for the NPD Closure Project included open houses at the facility where visitors could tour certain parts including the former control room, and virtually view inaccessible parts of the facility with 3-D goggles. CNL also welcomed the public to the NPD site for a number of Chimney Swift Count Nights where attendees could watch the chimney swifts roost at the NPD ventilation stack and hear more about the NPD Closure Project and CNL's efforts to protect this SAR. In 2020, due to public health restrictions, CNL modified the Chimney Swift Count Night to be a virtual online event.

To address accessibility concerns, document repositories have been functionally created by providing the EIS at local libraries and municipal offices. Online content has also been updated and continually refreshed and

reorganized with simultaneously maintaining old content to ensure transparency with stakeholders. CNL has also consistently been responsive to feedback on online content. A notable comment from early in the process suggested that posters CNL used at public information sessions be available online. This suggestion was immediately implemented. To ensure ease of understanding and user-friendliness and provision of meaningful information, CNL also adhere to internal and external standards on communications. Communication products like presentation align with CNL Corporate Branding Guidelines. Communication activities are audited annually through CNL's environmental protection program's ISO 14001 certification.

Objective 3: Demonstrating CNL's long-term commitment and approach to safely and cost-effectively reducing Canada's nuclear legacy liabilities.

To demonstrate CNL's long-term commitment and approach to safely and cost-effectively reducing Canada's nuclear legacy liabilities in relation to the NPD Closure Project, CNL has focused on refining its messaging. To this end, CNL has attempted to share the story of why decommissioning the NPD facility is part of the solution to safely reducing Canada's nuclear legacies. The message that in-situ disposal is a permanent, safe and proven solution to address the legacy liability of the NPD reactor facility is now a primary message of all communications on the NPD Closure Project.

Tours related to the NPD Closure Project which have been given to members of the public, elected officials and media visit current waste storage areas at CRL and the NPDWF and site. These tours have effectively given insight into CNL's waste management practices, why CNL uses different waste storage solutions and has different plans for disposing of different waste streams. For media outreach, 'detect and correct' media responses have been another technique CNL has used to effectively share CNL's side of the story and disseminate the facts on CNL's management and disposal plans for nuclear waste. Information on alternatives and cost associated with the NPD Closure Project and alternative options has also been shared publicly in webinars and online poster content, as well as in this EIS.

Objective 4: Informing and educating host communities and stakeholders about nuclear decommissioning, environmental remediation and radioactive waste management.

At both a basic level and a technical level, CNL has informed and educated host communities and stakeholders about environmental remediation and radioactive waste management. In particular, presentations prepared for stakeholder groups have included details on the in-situ disposal technique by referencing examples in other countries and in Canada (for mines), and included a video clip of grouting to allow for visualization of this technique. CNL has also shared information on the basics of radiation and on CNL's current waste management practices and future plans for all CNL waste streams via presentations, meetings and the sharing of documents. In response to public interest in the grout used for the in-situ disposal technique, CNL created an infographic (available online) specifically on grout and its role in the in-situ disposal.

CNL has also shared information on specific impacts the in-situ disposal solution – and creation of the NPDDF – would have on humans and the environment in terms of radiation dose. This has also been done as a user-friendly "peak dose" graphic used in presentations with stakeholder groups and other communication products. While CNL has had feedback that information on the NPD Closure Project needs to be basic, there has been simultaneous feedback, particularly in the host communities, that there should be more in-depth technical information available. One way CNL has addressed this is to have CNL's experts available at open houses and information sessions to answer technical questions on the science underpinning the project.

Another way CNL has communicated with host communities with more basic information is through annual attendance at public events like Down Town Connect in Pembroke and the Petawawa Showcase, the Ottawa

Valley's largest home show. At annual public events in the community, CNL representatives regularly share updates on the NPD Closure Project and use communication products, such as videos and models, to engage local stakeholders.

Objective 5: Meeting all regulatory-based communication and engagement requirements.

CNL has aligned its stakeholder engagement strategy with regulatory requirements and communication. CNL began stakeholder engagement in support of the NPD Closure Project in October 2015 when CNL leadership introduced the project at the final ESC meeting for that year. By the end of 2016, engagement activities were fully underway. For more than four years, CNL has modelled its engagement on the regulatory requirements found in REGDOC 3.2.1 *Public Information and Disclosure* (CNSC 2018a) and other regulatory guidance, such as the *Generic Guidelines for the Preparation of an Environmental Impact Statement*. The goals of CNL's stakeholder engagement program, outlined in this report, are aligned with both the REGDOC 3.2.1 (CNSC 2018a) and CNL's *Public Information and Disclosure Program*, which itself is aligned with REGDOC 3.2.1 (CNSC 2018a).

3. Engagement Methods and Activities

Engagement activities in support of the NPD Closure Project began on 2015 October 29, with the introduction of CNL's near and longer-term plans, including high-level introduction to the project, to the CNL Environmental Stewardship Council (ESC), discussed below in Section 3.1.2. Since 2015, CNL has conducted a stakeholder engagement campaign to provide members of the public (individuals or groups) with opportunities to discuss and provide feedback on the NPD Closure Project.

Project specific engagement methods and activities that occurred from 2017 April to 2023 May include:

- Presentations to various stakeholders (members of the public, industry, elected officials and employees);
- Publishing and updating project specific web page content;
- Posting and publishing of infographics (i.e. fact sheets);
- Publishing and distribution of newsletters with project content (i.e. CONTACT, Voyageur);
- Conduct of site visits and tours;
- Conduct of public information sessions and open houses at the NPD facility;
- Conduct of quarterly online webinars;
- Meetings and information sessions for interested stakeholders;
- Bi-monthly breakfast briefings and webinars;
- Participation in public and community events;
- Increased use of social media, including uploading project specific videos to YouTube;
- Hosting virtual open houses;
- Advertising campaigns (online, intranet, newspapers, flyer insert, radio public service announcement, social media, paid Facebook advertising);
- Distribution of draft EIS to local libraries, to function as an information repository and support public input; and
- Emails to stakeholders with updates, including notifications of the draft EIS submission and responses to questions submitted.

Webinars were conducted in English with simultaneous translation to French. Meetings and other activities were also conducted with simultaneous translations.

Section 3.1 lists individual engagement activities along with a description of the method of engagement.

3.1 Presentations, Conferences, Meetings, Site Tours and Open Houses

CNL uses presentations and meetings to help inform and educate stakeholders on the proposed NPD Closure Project and also hosts stakeholder tours to the NPD site.

These presentations and tours provide an opportunity for a general overview of the NPD Closure Project and facilitated information sharing and CNL employees, SMEs, and stakeholders. These visits are used as one of several means of engaging with stakeholders and have induced discussion that help to inform the project

throughout the regulatory process. No in-person tours took place since the previous version of the stakeholder report.

See Appendix A for an example of a typical meeting agenda.

See Appendix B for an example of a general overview presentation.

All records of meeting agendas and presentations are kept by the project and can be provided upon request.

3.1.1 Canadian Nuclear Society (CNS) Conference – 2017 June 04-07

CNL had a booth at this industry conference, hosted by the Canadian Nuclear Association (CNA) in Niagara Falls in 2017 June. CNL had a corporate presence at the event. Information about the NPD Closure Project was on hand and CNL representatives were prepared to respond to questions about the project.

Stakeholder(s): Industry.

3.1.2 Environmental Stewardship Council Meeting – 2017 June 22

Established in 2006, the ESC meets three times annually. The objective of the ESC is to build working relationships and create opportunities for open dialogue between various stakeholder groups, local communities and CNL. These conversations are integral in providing CNL with a wide range of viewpoints.

During regularly scheduled meetings ESC members are presented with information about CNL, our environmental practices and are given the opportunity to ask questions and discuss the information presented; ESC members are also asked to take meeting information back to their respective memberships. This open dialogue and sharing of information is very important for CNL, ensuring that the viewpoints of our closest neighbours and non-governmental organizations are heard and considered in how we carry out our missions. Meeting notes are taken at each meeting, recording all questions posed and actions identified that occurred during an ESC meeting. As noted above, the ESC was where CNL first shared information on the proposed project, back in 2015 (see Appendix C for the presentation). After this initial introduction, every ESC meeting since then has included an update on the NPD Closure Project as an agenda item.

On 2017 June 22 the ESC was briefed on current environmental performance monitoring and proposed follow-up monitoring for the NPD Closure Project.

Stakeholder(s): Host communities, local elected officials, Indigenous communities, non-governmental organizations (NGO).

3.1.3 MRC Pontiac Council Site Visit – 2017 July 11

CNL hosted members of the MRC (Municipalité régionale de comté) Pontiac at the NPD site. SMEs gave a presentation on the NPD Closure Project, answered questions and dialogued on the project with the MRC Pontiac. The visit also included a visit to the reactor facility. A member of the local media attended and covered the visit.

Stakeholder(s): Local elected officials, media.

3.1.4 Old Fort Williams Cottagers' Association Meeting – 2017 July 15

CNL had offered to meet with the Old Fort William Cottagers' Association (OFWCA) and the Association invited CNL to hold a meeting on the proposed Near Surface Disposal Facility (NSDF) in Fort William. CNL's Vice

President of Decommissioning and Waste Management (D&WM) gave a presentation, which included an overview of the NPD Closure Project, and there was approximately one and a half hours of questions and answers. The event was featured in the local media. An estimated 80 individuals attended the event.

Stakeholder(s): Members of the local community, media, NGOs.

3.1.5 Meeting with Bloc Québécois – 2017 August 10

CNL hosted Martine Ouellet, the leader of the Bloc Québécois, at Chalk River Laboratories (CRL) to discuss CNL's activities, in particular the proposed NPD Closure Project and proposed NSDF. The meeting included a presentation and dialogue on both projects. A reporter with the Canadian Press also attended and reported on the meeting.

Stakeholder(s): Elected official, media.

3.1.6 CNL Open House – 2017 August 12

CNL hosted an Open House on the CRL site. The Open House had over 2,000 people attend. As a part of the day, presentations and tours of the NPD facility were offered. Approximately 85 people attended the NPD tours. Interested attendees could learn about the project, see the facility and meet and discuss the project with subject matter experts.

3.1.7 Nuclear Energy Agency Site Tour – 2017 October 03

The CNSC and Natural Resources Canada hosted a meeting of the Nuclear Energy Agency's Working Party on Decommissioning and Dismantling in 2017 October. This included a visit to the NPD site to learn more about CNL's proposal to close the facility. International representatives from the member nations had the opportunity to tour the site and discuss the project with experts from the project team.

Stakeholder(s): Industry.

3.1.8 Environmental Stewardship Council – 2017 October 26

In 2017 October, the NPD Closure Project team shared an overview of the draft Environmental Impact Statement in advance of the submission of the document to the CNSC in November. Information on how the public can participate in the environmental assessment process was also shared. A second presentation was given to members on the proposed valued components of the NPD Closure Project. Throughout these updates, members had the opportunity to seek clarification and raise any concerns they had with the project.

Stakeholder(s): Local elected officials, local environmental organizations, local Indigenous peoples and local Non-Governmental Organizations (NGOs).

3.1.9 Take Our Kids to Work Day – 2017 November 01

CNL participates annually in Take Our Kids to Work Day for students in grade nine to introduce them to different careers and areas of work. Approximately 80 students came to the CRL site and a presentation and tour component were included about the NPD Closure Project.

Stakeholder(s): Employees, general public (students).

3.1.10 Canadian Nuclear Society Site Tour – 2017 November 25

CNL hosted members of the local branch of the Canadian Nuclear Society (CNS) and their families for a tour of the NPD facility to learn more about the proposed project. Participants had the opportunity to discuss the project with subject matter experts.

Stakeholder(s): Industry, public within the local community.

3.1.11 Algonquin Chapter of Professional Engineers of Ontario (PEO) Site Tour – 2017 November 25

CNL hosted members of the local branch of the Professional Engineers of Ontario (PEO) and their families for a tour of the NPD facility to learn more about the proposed project. Participants had the opportunity to discuss the project with subject matter experts.

Stakeholder(s): Industry, public within the local community.

3.1.12 NPD Open House – 2017 December 09

The first Open House hosted at the NPD facility during the public comment period on the draft EIS was held in January. 35 members of the public attended, including members of special interest groups, students and former employees. The event included a presentation, a poster board session and virtual reality glasses, to enable a “tour” of inaccessible parts of the facility.

Stakeholder(s): General public.

3.1.13 Meeting with the Canadian Environmental Law Association (CELA) – 2018 January 19

The NPD Closure Project offered to meet with all intervenors during the public comment period. The Canadian Environmental Law Association (CELA) was interested in meeting with SMEs and hosted members of the project team at their offices in Toronto. CNL shared more technical details on the project with CELA, their client and their technical consultant. Questions were answered there and information was provided in follow-up to CELA after the meeting.

Stakeholder(s): Interest groups.

3.1.14 NPD Open House – 2018 January 20

The second Open House hosted at the NPD facility during the public comment period on the draft EIS was held in January. Approximately 58 members of the public attended, including members of special interest groups, students and former employees. The event included a presentation in the control room, a poster board session and virtual reality glasses, to enable a “tour” of inaccessible parts of the facility.

Stakeholder(s): General public.

3.1.15 Canadian Nuclear Association Conference – 2018 February 21 – 23

CNL has a presence at the Canadian Nuclear Association conference annually and at the 2018 conference had information on CNL as well as both the proposed NSDF and the NPD Closure Project on interactive touch screens, as well as informational handouts at the booth.

3.1.16 Meeting with Hull-Aylmer MP– 2018 February 26

At the request of the Member of Parliament (MP) for Hull-Aylmer, project staff met with him to discuss the proposed NPD Closure Project and the proposed NSDF. This gave him the opportunity to gain understanding of the project.

Stakeholder(s): Government officials.

3.1.17 Waste Management Symposium – 2018 March 18 – 22

CNL attended the Waste Management Symposium and had information on CNL as well as both the proposed NSDF and the NPD Closure Project at the corporate booth. SMEs also attended to discuss the projects as part of conference sessions.

3.1.18 Town Hall with Hull-Aylmer MP – 2018 March 05

At the invitation of the MP for Hull-Aylmer, CNL attended an open Town Hall for the public in Gatineau, Quebec to share information about CNL, in particular, the proposed NPD Closure Project and proposed NSDF.

Stakeholder(s): Members of the public, elected officials.

3.1.19 Renfrew-Nipissing-Pembroke MPP Site Visit – 2018 April 03

The Member of Provincial Parliament (MPP) for Renfrew-Nipissing-Pembroke, attended the Deep River offices of CNL to learn about the proposed NSDF and the NPD Closure Project. He had the opportunity to speak directly with subject matter experts about concerns constituents had raised to him and gain understanding of the projects and CNSC processes that are being adhered to for the proposed projects.

Stakeholder(s): Government official.

3.1.20 Pontiac MP Site Visit – 2018 April 04

The Member of Parliament (MP) for Pontiac visited the CRL site to learn about the proposed NSDF and the NPD Closure Project. He had the opportunity to speak directly with subject matter experts about concerns constituents had raised to him. He also had the opportunity to gain understanding of the projects and CNSC processes that are being adhered to for the proposed projects.

Stakeholder(s): Government official.

3.1.21 Environmental Stewardship Council Meeting – 2018 April 05

In 2018 April, the ESC was briefed on the outcomes of the public comment period on the draft EIS for the NPD Closure Project and what themes had arisen from the comments. Following this update, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project. Information on upcoming public engagements was shared, as well.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.22 Canadian Nuclear Society Conference – 2018 June 03 – 07

CNL has a presence at the Canadian Nuclear Society conference annually, and at the 2018 conference had information on CNL as well as both the proposed NSDF and the NPD Closure Project on interactive touch

screens, as well as informational handouts on both projects at the booth. Project staff also presented a paper on the safety case for the project.

Stakeholder(s): Industry.

3.1.23 Real Property Institute of Canada (RPIC) Federal Contaminated Sites National Workshop – 2018 June 13 – 15

At the 2018 Real Property Institute of Canada (RPIC) workshop the NPD Closure Project shared poster material and a presentation to help inform, share ideas and obtain expert feedback from this industry group.

Stakeholder(s): Industry.

3.1.24 Environmental Stewardship Council Meeting – 2018 June 21

In 2018 June, the ESC was updated on the project timelines, the site's most recent environmental performance reports, grout development and public engagements. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.25 Virtual NPD Facility Tour – 2018 July 19

In 2018 April CNL posted a virtual tour of the NPD facility to its YouTube channel. As of 2020 January, this virtual tour had been viewed 1,098 times.

Stakeholder(s): General public.

3.1.26 Canadian Ecology Centre Site Visit – 2018 July 19 and August 08

Around 20 students from the Canadian Ecology Centre, which is a non-profit outdoor and environmental education facility, near Mattawa, Ontario, visited the NPD site on two separate occasions to learn about the project and CNL as a part of a summer course for high school credit. Subject matter experts gave an overview of NPD and provided the opportunity for students and faculty to ask questions and share concerns.

Stakeholder(s): General public, students.

3.1.27 NPD Open House – 2018 August 16

More than 30 members of the public attend the August 2018 Open House at NPD. Event attendees were able to tour inside the facility. Team members were on hand to answer questions on the project and a presentation was shared.

Stakeholder(s): General public.

3.1.28 Environmental Stewardship Council Meeting – 2018 October 18

The ESC was briefed on the current environmental monitoring and surveillance at the NPD site and proposed follow-up monitoring for the project. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.29 Eastern Ontario Water Works Association Conference – 2018 October 24

CNL staff attended the Eastern Ontario Water Works Association Conference to present on the proposed NSDF and NPD Closure Projects. The presentation offered attendee's fact based information about both projects and the opportunity to gain understanding of what is being proposed as well as opportunity to ask questions.

Stakeholder(s): Municipal water works professionals.

3.1.30 Technical Discussion – 2018 November 22

With assistance from a third-party facilitator, CNL and local CNL / AECL alumni coordinated a technical meeting to discuss specific aspects of the NPD Closure Project and the environmental assessment process, including the safety case and international guidance. 15 alumni attended and six SMEs presented.

Stakeholder(s): Interest group, general public.

3.1.31 Carleton University Journalism Master's Students Presentation and Site Visit – 2018 November 28

Two Master's students, who were writing a piece for the media, from Carleton University (Ottawa, ON) were given a CNL overview presentation with a focus on the proposed NSDF and the NPD Closure Project and impact on the Ottawa River. Following the presentations they had the opportunity to seek clarification and raise any concerns they had with the projects.

Stakeholder(s): Media.

3.1.32 MRC Pontiac Warden and MRC Pontiac Staff Presentation and Site Visit – 2018 December 11

MRC Pontiac Warden and MRC Pontiac staff were given a CNL overview presentation with a focus on the proposed NSDF and the NPD Closure Project. Following the presentations they had the opportunity to seek clarification and raise any concerns they had with the projects.

Stakeholder(s): Local elected officials.

3.1.33 Renfrew and Pontiac Counties Elected Officials Information Day – 2019 February 15

Local elected officials from both Renfrew and Pontiac County were invited to the CRL site for updates and presentations on CNL, the proposed NSDF and the NPD Closure Project. Throughout the day officials had the opportunity to seek clarification and raise any concerns they had with the projects and ask questions about CNL.

Stakeholder(s): Local elected officials.

3.1.34 Meeting with Representatives of the Province of Quebec – 2019 February 28

NSDF and NPD project staff went to Quebec City to meet with representatives from the Province of Quebec to discuss the proposed NSDF and the NPD Closure Project. Throughout the day representatives had the opportunity to seek clarification and raise any concerns they had with the projects.

Stakeholder(s): Government of Quebec officials.

3.1.35 Carleton University Civil and Environmental Engineering Students Presentation and Site Tour – 2019 March 08

Students from Carleton University (Ottawa, ON) visited the CRL site for a tour and presentations on the proposed NSDF and the NPD Closure Project. Throughout the day students had the opportunity to seek clarification and raise any concerns they had with the projects and ask questions about CNL.

Stakeholder(s): Academia (engineering).

3.1.36 Environmental Stewardship Council Meeting – 2019 March 28

The ESC was given and overview on the geology of the NPD site and the geoscience characterization program for the project, which was information relevant to some of the themes from the draft EIS comments. The Council was also briefed on the ongoing public and Indigenous engagement related to the NPD Closure Project. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.37 Breakfast Briefing – 2019 April 24

Bi-monthly Breakfast Briefings were introduced in 2019 April. The Breakfast Briefings offer an opportunity for Alumni and interested members of the public to gain a further technical understanding of the NPD Closure Project. At this session the NPD Closure Project team presented on the proposed follow-up monitoring for the NPD site, and attendees had the opportunity to seek clarification and raise any concerns they had with the Project to subject matter experts.

Stakeholder(s): Alumni, Interested members of the public, local elected officials.

3.1.38 Presentation to Laurentian Valley Township Council – 2019 May 07

Project staff attended the Laurentian Valley Township's council meeting and gave a presentation on the NPD Closure Project. Council members had the opportunity to seek clarification and raise any concerns they had with the project.

Stakeholder(s): Local elected officials.

3.1.39 Gatineau Moderated Forum – 2019 May 30

At the invitation of a Gatineau City Councillor CNL attended a moderated forum for the public in Gatineau, Quebec to share information about CNL, in particular, the proposed NSDF and the NPD Closure Project. Council members and members of the public had the opportunity to seek clarification and raise any concerns they had with the project. NPD Closure Project subject matter experts were in attendance.

Stakeholder(s): Members of the public, elected officials.

3.1.40 Environmental Stewardship Council Meeting – 2019 June 20

The ESC was given an overview of applicable Canadian regulations and international guidance for the project, which was information relevant to some of the themes from the draft EIS comments. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.41 Canadian Nuclear Society (CNS) Annual Conference – 2019 June 23 – 26

CNL had a booth at the annual Canadian Nuclear Society (CNS) conference, where CNL representatives shared information on the NPD Closure Project.

Stakeholder(s): Industry.

3.1.42 Breakfast Briefing – 2019 June 26

The Bi-Monthly Breakfast Briefings offer an opportunity for Alumni and interested members of the public to gain a further technical understanding of the NPD Closure Project. In this session two SMEs presented on the protection of the Chimney Swifts, a species at risk at NPD, and attendees had the opportunity to seek clarification and raise any concerns they had with NPD Closure Project team members.

Stakeholder(s): Alumni, Interested members of the public.

3.1.43 Workshop on the Proposed NPD draft Effluent Monitoring Plan – 2019 July 17

A workshop to focus on sharing more details with interested members of the public on aspects of the proposed effluent monitoring plan was held in 2019 July. Five individuals attended the event, which included a site tour, discussion and opportunity to provide feedback on the proposed draft plan.

Stakeholder(s): General public, alumni.

3.1.44 Canadian Ecology Centre Site Visit – 2019 July 18 and August 01

Approximately 20 students from the Canadian Ecology Centre, which is a non-profit outdoor and environmental education facility, near Mattawa, Ontario, visited the NPD site on two separate occasions to learn about the Project and CNL as a part of a summer course for high school credit. SMEs gave an overview of NPD and provided the opportunity for students and faculty to ask questions and share concerns.

Stakeholder(s): General public, students.

3.1.45 Public Open Houses – 2019 August 01 & August 08

CNL welcomed members of the public to the NPD site. These evening events included tours of the facility, a presentation and an opportunity to view the Chimney Swifts.

Stakeholder(s): General Public.

3.1.46 NWMDER Conference – 2019 September 08-12

The annual Nuclear Waste Management Decommissioning Environmental Restoration (NWMDER) Conference in 2019 September included an opportunity to tour the NPD site on September 12. Fifty individuals from the conference attended the tour. Various papers on the NPD Closure Project were also presented at the conference.

Stakeholder(s): Industry.

3.1.47 Breakfast Briefing – 2019 September 18

After a summer hiatus, the regular bi-monthly breakfast briefings in Deep River resumed. At September's Breakfast Briefing NPD's engineering design challenges (this was one of the main issues that was raised as feedback on the draft EIS) were discussed. Afterwards, CNL had a question and answer session, which was also an opportunity to voice concerns and share feedback directly with the NPD Closure Project team.

Stakeholder(s): Alumni, Interested members of the public.

3.1.48 Take Our Kids to Work Day – 2019 November 08

CNL participates annually in Take Our Kids to Work Day (TOKWD) for students in grade nine to introduce them to different careers and areas of work. The 2019 TOKWD included an overview of the NPD Closure Project with the NPD model and Virtual Reality glasses to show the students inside the reactor.

Stakeholder(s): Employees, general public (students).

3.1.49 Breakfast Briefing – 2019 December 04

At the 2019 December Breakfast Briefing, SMEs from the NPD Closure Project shared a presentation on the characterization and waste inventory at the NPD facility. Afterwards, a question and answer session and an opportunity to voice concerns and share feedback directly with the NPD Closure Project team.

Stakeholder(s): Alumni, Interested members of the public.

3.1.50 NAYGN Presentation – 2020 April 29

NPD Closure Project overview presentation (in situ decommissioning, project timelines, protecting people and the environment).

Stakeholder(s): Industry.

3.1.51 Meeting with David – 2020 June 15

CNL hosted a meeting to discuss and respond to comments on the draft EIS for the NPD Closure Project with the former Deep River Mayor.

Stakeholder(s): Intervenor.

3.1.52 Environmental Stewardship Council - 2020 June 15

Update on the EA process and Stakeholder and Indigenous engagement.

In 2020 June, CNL briefed the ESC the Environmental Assessment process and stakeholder and Indigenous engagement as part of a project update. ESC members had the opportunity to seek clarification from project experts and raise any concerns they had about the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.53 Environmental Stewardship Council - 2020 October 22

Update on the current Project status, next steps, Stakeholder and Indigenous engagement, environmental protection – baseline monitoring.

In 2020 October, CNL briefed the ESC on Environmental Protection and baseline monitoring as part of a project update. ESC members had the opportunity to seek clarification from project experts and raise any concerns they had about the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.54 Waste Management Symposia – 2021 March 07-11

CNL participated in the 2021 Waste Management Symposia. A NPD representative gave the presentation *A Safety Case for the In-situ Disposal of Two Decommissioned Nuclear Reactors*, highlighting the safety cases for the NPD and WR-1 projects.

Stakeholder(s): Local elected officials, local environmental organizations, local Non-Governmental Organizations (NGOs), and interested members of the public.

3.1.55 Environmental Stewardship Council - 2021 March 25

NSDF and NPD Project Fact or Fiction, Environmental Assessment update and timelines

In 2021 March, CNL shared the NSDF and NPD Fact or Fiction presentation and briefed the ESC on any Environmental Assessment updates and timelines as part of a project update. ESC members had the opportunity to seek clarification from project experts and raise any concerns they had about the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.56 Decommissioning and Nuclear Waste Conference – 2021 April 19

CNL participated in the Decommissioning and Nuclear Waste Conference virtually. A CNL representative gave a presentation *In-Situ Decommissioning for Legacy Reactors,* highlighting the NPD and WR-1 reactors.

Stakeholder(s): Industry

3.1.57 City of Ottawa - Standing Committee on Environmental Protection, Water and Waste Management – 2021 March 30

As a result of a motion related to the NSDF and NPD projects brought to the City of Ottawa Council in 2021 February and referred to the City of Ottawa Standing Committee on Environmental Protection, Water and Waste Management, CNL attended the committee's public meeting on March 30. CNL SMEs clarified the facts and explained the environmental benefits of both the projects to the committee and members of the public in attendance. Citizens also presented their views on the projects. Following the meeting, the city amended the original motion to request that CNL and the CNSC take action on the City of Ottawa's requests to:

- Stop transportation of waste from other provinces to CRL;

- Increase safeguards to protect the Ottawa River;
- Prevent precipitation from entering the NSDF;
- Provide access to environmental data to the city; and
- Commit to timely notification of spills / releases.

More information on the committee's motion can be found on the City of Ottawa webpage: https://ottawa.ca/en/city-hall/council-committees-and-boards/committees-andboards/environmental-protection-water-and-waste-management

3.1.58 Virtual Open House – 2021 May 31 - June 13

In May and June of 2021, CNL held a NPD Project-specific virtual open house (VOH) to provide information to and receive feedback from the community on the Project. Interested members of the public were able to access integral information about the project, including videos, maps, infographics, and technical supporting documents. To help answer questions, CNL hosted six live chat sessions where VOH visitors could chat with key representatives of the project team. The English VOH site had 137 visitors, and the French site had 16. Visitor traffic was driven to the VOH primarily through the engagewithcnl.ca and CNL Facebook websites. The top pages visited on CNL.ca were the homepage and Download Materials page. See Appendix G for the NPD VOH web pages.

3.1.59 Environmental Stewardship Council Meeting - 2021 June 24

In 2021 June, CNL briefed the ESC on species at risk at the site and recent and upcoming engagements as part of a project update. ESC members had the opportunity to seek clarification from project experts and raise any concerns they had about the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.60 Public Open House – 2019 August 01 & 08

CNL welcomed members of the public to the NPD site to celebrate the milestone. The day included tours of the facility, booths and displays, a picnic area, as well as engaging presentations. CNL invited community partners to participate in the celebrations.

3.1.61 Community Advisory Panel (#1) – 2021 September 09

In 2021 September, the NPD Closure Project was introduced to the CNL CAP as part of a corporate overview presentation that summarized key environmental projects. Following the presentation, CAP members had the opportunity to seek clarification and raise any concerns they had about the Project.

Stakeholder(s): Community advisory members.

3.1.62 Environmental Stewardship Council - 2021 October 21

In 2021 October, CNL briefed the ESC on the NPD Closure project submission of the revised update EIS as part of a project update. ESC members had the opportunity to seek clarification from project experts and raise any concerns they had about the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.63 City of Ottawa Visit to NPD – 2021 December 02

CNL's NPD Closure Project team welcomed four City of Ottawa staff to tour the site and share information on the Project's efforts to protect the Ottawa River and the safety of the communities that surround it. The visit included a brief history of the NPD site and CNL's plans for grouting the reactor, as well as a facility tour, and a technical presentation and discussion, including the safety case and follow-up monitoring plans.

Stakeholder(s): Local elected officials.

3.1.64 Regulatory Oversight Report Virtual Meeting – 2021 November 24-25

A team of CNL employees participated in a virtual public meeting with the CNSC to review the CNL Regulatory Oversight Report (ROR) for 2020. The agenda included an overview of CNSC's regulatory oversight related to CNL's licensed sites that include Chalk River Laboratories, Whiteshell Laboratories, Douglas Point Waste Facility, Gentilly-1 Waste Facility, NPD Waste Facility, and the Port Hope Area Initiative (PHAI).

Stakeholder(s): Regulator, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.65 Environmental Stewardship Council Meeting - 2022 March 24

In 2022 March, CNL briefed the ESC on the NPD Closure project Environmental Assessment and licensing timelines as part of a project update. ESC members had the opportunity to seek clarification from project experts and raise any concerns they had about the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.66 Draft Environmental Assessment Follow-up Monitoring Program Technical Sessions (Virtual) - 2022 April 12 & 14

The NPD Closure Project hosted two technical sessions to provide interested members of the public with the opportunity to learn more and provide feedback on the Draft Environmental Assessment Follow-up Monitoring Program (EAFMP). The topics for the two sessions were the Environmental and Effluent Verification Monitoring Program and Groundwater Monitoring Program. The sessions were recorded and available on CNL's YouTube channel.

Stakeholder(s): Local environmental organizations, and local Non-Governmental Organizations (NGOs).

3.1.67 Canadian Nuclear Association Conference – 2022 April 12-14

CNL has a presence at the Canadian Nuclear Association conference and at the 2022 conference had information on CNL as well as both the proposed NSDF and the NPD Closure Project, as well as informational handouts at the booth.

Stakeholder(s): Industry.

3.1.68 60th Anniversary Open House- 2022 June 25

2022 June marked six decades since the NPD reactor came online. CNL welcomed over 200 stakeholders, interested members of the public and Indigenous Nations, communities and organizations to the NPD site for an open house. CNL hosted tours of the facility, had booths, displays and presentations to share information.

Stakeholder(s): General public.

3.1.69 Environmental Stewardship Council Meeting – 2022 July 28

The ESC was provided with an updated on the NPD EIS and Indigenous and Stakeholder engagement. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.70 CNL Public Open House – 2022 August 06

CNL and AECL hosted an Open House at Chalk River Laboratories to celebrate the continued revitalization of the campus, AECL's 70th anniversary, and all the great accomplishments being made by AECL and CNL's respective teams. NPD had a booth in the Environmental Remediation Management (ERM) tent with staff on hand to interact with visitors.

Stakeholder(s): General public.

3.1.71 Environmental Stewardship Council Meeting – 2022 October 20

The ESC was provided an update on the NPD Environmental Assessment and that has an outcome from the concerns heard through interventions at the hearing for CNL's Near Surface Disposal Facility (NSDF) project, and the subsequent Procedural Direction issued by the CNSC, CNL decided to postpone the submission of the EIS. The ESC was also given a 'tour' of the Virtual Visitors Centre. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.72 Regulatory Oversight Report Virtual Meeting - 2022 November 02

A team of CNL employees participated in a virtual public meeting with the CNSC to review the CNL Regulatory Oversight Report (ROR) for 2021. This annual meeting serves as an opportunity for CNL representatives to discuss our performance for the preceding (2021) calendar year and to provide a detailed update on radiation protection, environmental protection, and conventional health and safety.

Stakeholder(s): General public.

3.1.73 Public Information Sessions - 2022 November 08-24

CNL hosted in-person Public Information Sessions throughout the month of November in the communities surrounding CRL. CNL staff provided the public with information on the plans to restore and protect the environment at the CRL site, answer questions and note feedback.

Each session featured information on CNL's overarching waste strategy program and its plans for the cleanup of the CRL site, and on the proposed NSDF Project and Nuclear Power Demonstration Closure Project.

Stakeholder(s): General public.

3.1.74 Virtual Visitors Centre (VVC) – 2022 October 06 -November 30

Through October to December 2022, CNL held a NPD Project-specific virtual open house (VOH) to provide information to and receive feedback from the community on the Project. Interested members of the public were able to access integral information about the project, including videos, maps, infographics, and technical supporting documents. To help answer questions, CNL included a meeting booking tools where visitors could chat with key representatives of the project team. The site had 154 visitors. Visitor traffic was driven to the VVC primarily through CNL's social media sites. See Appendix F for the NPD VOH web pages.

3.1.75 Community Advisory Panel 2-2 – 2022 December 08

This CAP meeting was held in-person with an online option for those who could not attend. CAP members were given a presentation on the NPD Closure Project. The Actinium-225 Project was introduced and CAP member completed a workshop to assist CNL is developing an engagement plan. This was followed by a session on the Overview Decommissioning and Cleanup Plan Principles and Goals, to further refine was CNL drafted.

Stakeholder(s): General public.

3.1.76 Virtual Open House – 2020 December 06-20

In December of 2020, CNL held a NPD Project-specific virtual open house (VOH) to provide information to and receive feedback from the community on the Project. Interested members of the public were able to access integral information about the project, including videos, maps, infographics, and technical supporting documents. To help answer questions, CNL hosted three live chat sessions where VOH visitors could chat with key representatives of the project team. The English VOH site had 1,050 visitors, and the French site had 32. Visitor traffic was driven to the VOH primarily through the engagewithcnl.ca and CNL Facebook websites. The top pages visited on CNL.ca were the homepage and Download Materials page. See Appendix F for the NPD VOH web pages.

3.1.77 Waste Management Symposia– 2023 February 26 – 2023 March 02

CNL participated in the 2023 Waste Management Symposia.

Stakeholder(s): Local elected officials, local environmental organizations, local Non-Governmental Organizations (NGOs), and interested members of the public.

Stakeholder(s): Industry.

3.1.78 Environmental Stewardship Council Meeting – 2023 March 30

The ESC was provided an update on the NPD Environmental Assessment and that has an outcome from the concerns heard through interventions at the hearing for CNL's Near Surface Disposal Facility (NSDF) project, and the subsequent Procedural Direction issued by the CNSC, CNL decided to postpone the submission of the EIS. A summary of the February webinar was provided. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.79 Nuclear Waste Management Organization Tour – 2023 April 27

Staff from the Nuclear Waste Management Organization (NWMO) visited the NPD Facility. The NWMO were provided a presentation on the project, had a discussion on biodiversity aspects, a facility tour and shared information with CNL staff on public and Indigenous engagement. Following the activities, the NWMO had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Industry.

3.1.80 Community Advisory Panel (#2-4) – 2023 June 01

In 2023 June, the CAP discussed restoration planning and used the NPD Closure Project as a case study. Following the presentation about site restoration planning principles and considerations for NPD, CAP members were lead through a workshop to solicit feedback on the restoration planning presented. Following the discussion member had the opportunity to seek clarification and raise any concerns they had about the Project.

Stakeholder(s): General public.

3.1.81 Environmental Stewardship Council Meeting – 2023 June 22

The ESC was provided an update on the NPD Environmental Assessment including the May Chimney Swift Count Nights and feedback from the 2023 June 01 CAP discussion on site restoration planning. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.82 5th Canadian Conference on Waste Management, Decommissioning and Environmental Restoration - 2023 August 27-31

The 5th Canadian Conference on Waste Management, Decommissioning and Environmental Restoration was held 2023 August 27-31, in Niagara Falls, Canada. The theme of the conference was environmental sustainability through timely waste management and decommissioning. CNL had strong representation at the conference, including a booth to provide information on current and upcoming work (including the NPD Environmental Assessment).

Stakeholder(s): Industry.

3.1.83 Environmental Stewardship Council Meeting – 2023 October 12

The ESC was provided an update on the NPD Environmental Assessment and a summary of the 2023 September 28 webinar on long-term safety. Following these updates, members had the opportunity to seek clarification and raise any concerns they had with the NPD Closure Project.

Stakeholder(s): Local elected officials, local environmental organizations and local NGOs.

3.1.84 CAN-US-UK Workshop on In-Situ Decommissioning Tour of NPD – 2023 December 13

CNL welcomed members of the In Situ Decommissioning Workshop, from various government and regulatory bodies from the USA, UK and Canada to the NPD site. NPD staff provided a tour of the NPD facility and

presentations on aspects of the project including public and Indigenous peoples engagement, long term safety and preliminary grout and demolition plans. Over the course of the day tour participants had the opportunity to ask questions and generate discussions.

3.2 Stakeholder: Industry Public Information Sessions

Nineteen public information sessions were conducted over the following months: 2017 April, May , June, August, December, 2018 January and 2022 November. These information sessions helped CNL inform, educate and obtain feedback from members of the public and host communities surrounding the NPD site.

New topics presented at the April, May, June and August public information sessions included information on the waste inventory at NPD, characterization work, safety features of the facility, proposed mitigation and monitoring, and the next steps in the Environmental Assessment. These topics were presented in addition to general information on the proposed technique of in-situ disposal (ISD).

Similar to previous information sessions held in 2016, the locations of these information sessions were chosen based on proximity to the proposed project site and population size. However, two additional information sessions in Chapeau (L'Isle-aux-Allumettes) and Arnprior were added upon request from their respective local municipalities. The Chapeau session included a presentation from CNL and a question and answer period.

The public information sessions held during the public comment period for the draft EIS (in 2017 December and 2018 January) focused on providing information related to the draft EIS, as well as information that had been identified as of interest to stakeholders. For instance, posters contained information on the isolation and containment provided by the ISD technique, how the decommissioned facility would perform in the event of a natural disaster or environmental process (like climate change), the updated list of Valued Components, natural analogues, and the conclusion of the draft EIS. The Chalk River session also included a presentation and a question and answer session with the project team.

The public information sessions in 2022 focused on providing EA updates to members of the surrounding communities. NPD subject matter experts were present to continue to provide transparent information about the project. The material used during the sessions had been identified as an interest to stakeholders, new posters were used to provide information on the NPD Alternative Means Assessment, how CNL is protecting the Ottawa River, and the Long-Term Safety.

At all public information sessions subject matter experts were available to answer questions and engage in one-on-one dialogue with event guests. An effort was made to share updated information that responded to specific areas of interest.

The locations of these information sessions were chosen due to Laurentian Hills being the host community and Rapides-des-Joachims being the closest community in Quebec. As well, since the CNSC had also chosen to host two open houses – one in Ontario and one in Quebec – on the environmental assessment and licensing process for the proposed project, CNL wanted to hold parallel public information sessions to ensure local stakeholders had access to information on the project.

While advertising was expanded for the public information sessions in 2017, the number of individuals who chose to attend the CNL-hosted public information sessions in 2017 was lower than the number of individuals who attended the sessions in 2016. This may reflect the fact that CNL hosted and / or attended a number of other events, such as the Open Houses. While the 2022 participation numbers were low as well, the majority

of the individuals who attended had heard of the project. Low participation could reflect the interest in stakeholders and members of the public preferring the virtual engagement options.

Dates, locations, attendance for the 2022 session is captured in Table 3-1 Dates, locations, attendance and feedback for the 2017-2018 sessions are summarized in Table 3-2 and for comparison Table 3-3 shows the same information for the 2016 sessions.

Stakeholder(s): Local and host communities, local elected officials.

Table 3-1 - Public Information Session Dates and Locations – 2022

Date	Location	Attendance	Written Feedback
2022 November 08	Rapides-des-Joachims	0	0
2022 November 09	Sheenboro	1	0
2022 November 10	L'Isle-aux-Allumettes (Chapeau)	5	0
2022 November 15	Renfrew	11	0
2022 November 17	Pembroke	6	0
2022 November 22	Chalk River	3	0
2022 November 23	Deep River	11	0
2022 November 24	Petawawa	5	0
	Total	**42**	**0**

Table 3-2 - Public Information Session Dates and Locations – 2017-2019

Date	Location	2017-2018 Public Information Sessions	
		Attendance	Written Feedback
2017 April 20	Deep River	36	4
2017 April 24	Stonecliffe	5	0
2017 April 25	Chalk River	9	3
2017 April 26	Rapides-des-Joachims	2	0
2017 May 01	Petawawa	12	2
2017 May 02	Sheenboro	33	4
2017 May 03	Pembroke	16	3
2017 May 09	Arnprior	7	0
2017 August 03	L'Isle-aux-Allumettes (Chapeau)	15	0
2017 December 07	Chalk River	6	1
2018 January 17	Rapides-des-Joachims	1	0
	Total	**142**	**17**

Table 3-3 - Public Information Session Dates and Locations – 2016

Date	Location	2016 Public Information Sessions	
		Attendance	Written Feedback
2016 June 20	Rapides-des- Joachims	7	6
2016 June 21	Deep River	17	2
2016 June 22	Stonecliffe	2	0
2016 June 29	Sheenboro	29	10
2016 July 06	Pembroke	13	10
2016 July 12	Chalk River	11	10
2016 July 07	Petawawa	17	7
2016 October 17	Rapides-des- Joachims	10	6
2016 October 18	Deep River	22	6
2016 October 19	Stonecliffe	5	0
2016 October 20	Sheenboro	12	2
2016 October 24	Pembroke	20	8
2016 October 26	Chalk River	18	4
2016 October 27	Petawawa	9	2
	Total	**193**	**73**

3.3 Poster Boards

Poster boards were created to share information in a number of ways: at information sessions, online, at meetings, for presentations and during site tours and open houses.

3.3.1 2017/2018 Poster Boards (April, May, June and August sessions)

CNL created three new poster boards (listed below) with the intent to educate and prompt discussion about the project. The poster boards were used to support engagements such as presentations, public open houses, employee information sessions, site visits and public events. Older poster boards that were first shared with the public in 2016 were also used to create a narrative of the project. All of the posters used at these sessions were also posted to the CNL website in both official languages. The posters available on the CNL website have since been updated.

Poster board topics included:

“A Safe Technique”: information on the waste inventory at NPD, characterization work and safety features of the facility

“Minimizing Environmental Impact”: proposed mitigation and monitoring.

“What You Told Us”: the next steps in the Environmental Assessment.

3.3.2 2017/2018 Poster Boards (December and January sessions)

CNL created poster boards with information specifically related to the content of the draft EIS to share with the local communities during the public comment period on the draft EIS. The poster boards were a versatile tactic used in conjunction with other tactics such as presentations, employee information sessions, site visits and Open Houses at the NPD facility. Older poster boards, such as “Alternative Means”, which were first

shared with the public in 2016 and earlier in 2017 were also used to create a narrative of the project. All of the posters used at these sessions were also posted to the CNL website in both official languages. The posters available on the CNL website have since been updated.

Poster board topics included:

- "NPD Closure Project" infographic: a poster version of the infographic, which gives an overview of the project;
- "Protection of People and the Environment": information on how in-situ disposal provides isolation and containment of contaminants;
- "Waste Inventory": an overview of the waste that would be disposed of with the proposed disposal;
- "Effects of the Environment": information on how the decommissioned facility would perform in the case of different natural disasters (i.e. flooding) and environmental processes, like climate change;
- "What do you think?": new information on the selected Valued Components, specifically an updated list of Valued Components, as well as information on spatial and temporal boundaries and how to get in touch with CNL;
- "Mitigation Measures & Monitoring": updated and more detailed information on what mitigation measures will be put in place and how a monitoring program will be developed;
- "Environmental Impact Statement Conclusion": an overview of the key findings of the EIS; and
- "Building Confidence": high-level information on how the project establishes confidence in corrosion modelling and the durability of the materials used in disposal by looking at natural analogues and information on existing facilities that were decommissioned using the proposed technique.

3.3.3 2018/2019 Poster Board (August Open House)

CNL created a new timeline poster to update the public on where the NPD Closure Project was at in terms of the Environmental Assessment Process. The poster was first created for the August Open House.

3.3.4 2020 Poster Board (Virtual Open House)

CNL updated the NPD Closure Project posters for the 2020 Virtual Open House. The posters are available online at http://www.engagewithcnl.ca/npd.

Poster board topics included:

- "NPD Closure Project" infographic: a poster version of the infographic, which gives an overview of the project;
- "What We've Hear-1" and "What We've Hear-2" posters: a summary of the feedback received at meetings, information session, events, email and other methods. The information was summarized into the eight themes heard;
- "Long-term Safety" poster: information on the numerous safeguards to protect the environment and human health;
- "Closing the NPD Facility- Grout": infographic: a poster vision of the infographic, which giver the facts on grout; and

- "Protecting the Ottawa River" poster: high-level information on how CNL is caring for the river and ensuring it remains healthy, safe place.

3.3.5 2021 Poster Board (Virtual Open House)

CNL updated the existing NPD Closure Project posters from the 2020 Virtual Open House for the 2021 Virtual Open House. The posters were available online at http://www.engagewithcnl.ca/npd and are currently available on the project website at https://www.cnl.ca/wp-content/uploads/2020/12/NPD_Poster_Pkg.pdf/. The posters available on the CNL website have since been updated.

3.3.6 2022 Poster Board (Virtual Visitors Centre)

CNL updated the existing NPD Closure Project posters from the 2021 Virtual Open House for the 2022 Virtual Visitors Centre. The posters were available online at http://www.engagewithcnl.ca/npd and at https://www.cnl.ca/wp-content/uploads/2020/12/NPD_Poster_Pkg.pdf/.

New poster board topic included:

- "Alternative Means" infographic: visual summary of the alternative options and the important considerations.

3.4 Webinars

The NPD Closure Project team hosted their first public webinar in 2018 February, during the public comment period on the draft EIS, as an interactive overview of the draft EIS. Webinars are accessible to anyone with internet access. This communications tool was introduced to meet feedback that accessibility of public information sessions could be improved.

The webinars evolved to provide an overview of the proposed NSDF and the NPD Closure Project on a quarterly basis. They provided updated information and addressed questions from the public, based on the themes from public comment period of the draft EIS (see Section 4.1.2 of this report for more information on these themes). Webinar sessions also provided opportunity for members of the public to ask their questions directly to the staff members taking part in the webinar through an online forum. Webinars were conducted in both official languages and all videos were uploaded to CNL YouTube channel after broadcast.

Stakeholder(s): General public.

Table 3-4: NPD Webinars

Date	NSDF/NPD	Topic	Peak Concurrent Viewers	Total Number of Views (to 2024 January)
2018 February 06	NPD only	• Overview of the draft EIS	26	442

Date	NSDF/NPD	Topic	Peak Concurrent Viewers	Total Number of Views (to 2024 January)
2018 October 17	NSDF/NPD	• Themes of draft EIS comments • Protection of the Ottawa River • Alternative means assessment • Design and engineering details • Details of proposed follow-up monitoring program	42	837
2019 March 20	NSDF/NPD	• Local geology • Geoscience characterization program • Impact from earthquakes • Availability of reference documents	37	360
2019 June 17	NSDF/NPD	• Project application of IAEA standards	20	619
2019 September 30	NSDF/NPD	• Overcoming engineering challenges of in-situ disposal	14	207
2019 December 10	NSDF/NPD	• Waste characterization and waste inventory at NPD	37	323
2020 June 25	NSDF/NPD	• Alternate options	78	236
2020 September 16	NPD	• In Situ Disposal Safety Barriers	51	124
2020 December 08	NPD	• Revised Draft Environmental Impact Statement	24	203
2021 February 16	NPD	• Follow-up Monitoring Plan	29	80
2021 March 17	NPD/NSDF	• Fact or Fiction	134	147
2021 May 11	NPD/NSDF	• Town Hall	77	81
2021 June 22	NPD/NSDF	• Species at Risk at NPD	96	106
2021 November 16	NPD	• Developing the Safety Case for the NPD Closure Project	66	85
2022 January 18	NPD/WR-1	• Regulatory Process for the NPD and WR1 IN Situ Disposal Projects	78	78
2022 March 22	NPD/WR-1	• Reactor Design and ISD	62	170

Date	NSDF/NPD	Topic	Peak Concurrent Viewers	Total Number of Views (to 2024 January)
2022 May 10	NPD/WR-1	• Overview of the EIS	41	78
2022 September 28	NPD/WR-1	• Who Supports and Environmental Assessment	43	49
2023 February 21	NPD	• Changes to the EIS Resulting from feedback	57	52
2023 September 28	NPD	• Long Term Safety	72	42
2023 November 28	NPD/Cleanup Function	• Planning for Site Restoration	127	102

Watch recorded webinars: https://www.youtube.com/channel/UC2GCEfZQgsURh4t_QZ-JwCw

3.5 Chimney Swift Count Nights

Beginning in 2017, the NPD Closure Project began to host stakeholders at the NPD site for Chimney Swift Count Nights. These community-focussed events offered interest groups and the general public an opportunity to meet with experts, visit the site and see the roost during migration season. A series of Count Nights were offered again in 2018 and 2019 and were open to the general public. The 2021 count night was hosted virtually due to COVID 19 restrictions. The count night retuned again in 2023 with an option for participants to join in-person or online. The Count Nights were advertised via social media, in the local newspaper, and through an email sent to the stakeholder email distribution list.

There has been a lot of interest from interest groups and the public in the Chimney Swift population that uses the ventilation stack. These events were a way to respond to this interest with a unique opportunity for stakeholders. Table 3-5 shows the details of these events, including dates and attendance.

Table 3-5
Chimney Swift Count Nights: Dates and Groups

Date	Group
2017 May 18	Kids' Night
2017 May 24	Chimney Swift Working Group
2017 May 28	CNL employees
2017 June 01	Local interest groups (ESC, Swisha Outdoor Committee, Ontario Nature, Pembroke Field Naturalists, Four Seasons Conservancy)
2017 June 05	Local interest groups (ESC, Swisha Outdoor Committee, Ontario Nature, Pembroke Field Naturalists, Four Seasons Conservancy)
2018 May 17	General public
2018 May 23	General public
2018 May 27	General public

Date	Group
2018 May 31	General public
2018 June 04	General public
2019 May 22	General public
2019 May 26	General public
2019 May 30	General public
2019 June 03	General public
2020 June 01	General public (virtual)
2021 June 01	General public (virtual)
2023 May 24	General public and virtual
2023 May 31	General public and virtual

3.6 Employee-focused Events

To reach internal stakeholders (employees), different methods were employed including MyCNL TV broadcasts (which are live broadcasts similar to the webinars sent out via CNL's intranet), employee information sessions, "lunch and learns" and content distributed via internal newsletters and intranet content.

All new employees take part in New Employee Orientation during which they are introduced to the proposed NPD Closure Project and have the opportunity to ask questions and learn about the project.

Stakeholder(s): Employees.

See Appendix D for examples from these events.

Table 3-6: Employee-focused Events

Event	Date
Deep River Campus Internal Information Session	2017 May 10
Chalk River Campus Internal Information Session	2017 May 10
Deep River Campus Lunch and Learn	2017 October 25
Employee Information Session	2018 December 06
MyCNL TV – NPD Webinar	2018 February 19
MyCNL TV	2018 May 18
MyCNL TV – NPD Virtual Tour	2018 May 28
MyCNL TV – NPD Closure Project Webinar	2020 June 18
MyCNL TV – NPD Chimney Swift Count Night	2020 June 24
MyCNL TV – NSDF & NPD Webinar	2020 July 20
MyCNL TV – NPD webinar	2020 December 7
MyCNL TV- NPD Webinar (Follow-up Monitoring)	2021 February 18
Fact or Fiction NPD/NSDF Webinar	2021 March 17
MyCNL TV - All Staff Update	2021 March 23
Stewardship Renewal Group Virtual Conference - NPD Booth	2021 April 23
Take 10 – NPD EA Process	2021 August 23

MyCNL Article - Environmental Assessment Update for the NPD Closure Project	2022 January 20
MyCNL Article - Decommissioning's Technical Team from CRL collaborates with the NDP Team	2022 February 03
MyCNL TV - The design of the WR-1 and NPD reactors and In-Situ Disposal Webinar	2022 March 22
MyCNL TV - NPD/WR-1 - Overview of the Environmental Impact Statements Webinar	2022 May 10
60th Anniversary Open House	2022 June 25
MyCNL Article - CNL host Open House at NPD to celebrate 60th Anniversary	2022 June 28
MyCNL TV - NPD Closure Project: Changes to the EIS resulting from Feedback Webinar	2023 February 21
ERM/SRG Tradeshow	2023 May 24 &25
New Employee Orientation	Ongoing – every two weeks

3.7 Community Events

One approach to initiating two-way communications and informing and educating was to have CNL representatives attend community events local to the NPD site. Attendance at each event is described in the following sections.

Stakeholder(s): General public, local elected officials, local NGOs.

See Appendix E for examples from Community Events.

3.7.1 Schoolhouse Museum Strawberry Social – 2017 June 25

The School House Museum is located in Laurentian Hills, Ontario, in close proximity to the site and includes a historical display of the NPD reactor. It is open to the public and owned by a local historical society – the Rolph, Buchanan, Wylie and McKay Historical Society.

CNL representatives attended the annual Strawberry Social at the School House Museum on 2017 June 25. Poster boards, feedback forms and factsheets were available for event attendees.

3.7.2 School House Museum Fun Day – 2017 July 30

The School House Museum's Annual Fun Day is a community event open to members of the public. The NPD Closure Project attended in 2016 and again in 2017. A CNL representative was present to discuss the project with poster boards, video, feedback forms and factsheets available to the public.

3.7.3 Renfrew County Plowing Match – 2017 September 16

CNL participated in the Renfrew County Plowing Match in 2017 to update the community on CNL's activities. CNL representatives had specific information about the NPD Closure Project on hand, and event attendees were able to ask questions about the project.

3.7.4 Petawawa Showcase – 2018 April 27-29

CNL attended the Spring Petawawa Showcase 2018 April 27-29. It is the Ottawa Valley's largest spring and fall home, consumer and leisure show. The event draws approximately 10,000 visitors from across the Ottawa Valley and western Quebec. CNL representatives staffed the CNL booth to share information and facilitate discussion on CNL's activities including the NPD Closure Project.

3.7.5 Downtown Connect: Pembroke Community Expo – 2018 May 11 - 12

Downtown Connect: Pembroke Community Expo is put on by the Pembroke Business Improvement Area annually each spring. Admission is free and it features businesses and organizations from around the area, allowing members of the public to meet local organizations and have one-on-one conversations with their representatives. CNL representatives staffed the CNL booth to share information and facilitate discussion on CNL's activities including the NPD Closure Project.

3.7.6 School House Museum Strawberry Social – 2018 June 24

CNL representatives attended the annual Strawberry Social at the School House Museum in 2018. Poster boards, feedback forms and factsheets were available and event attendees could ask questions and share feedback with CNL staff.

3.7.7 Community Day at the Reilly Bird Nature Reserve – 2018 July 14

CNL co-hosted a community day at the Reilly Bird Nature Reserve in Laurentian Hills, the host community for the NPD Closure Project. Members of the NPD Closure Project team attended the day and had information on hand to answer questions and discuss the project with event attendees.

3.7.8 Petawawa Showcase – 2019 April 26-28

CNL attended the Spring Petawawa Showcase 2019 April 26-28. It is the Ottawa Valley's largest spring and fall home, consumer and leisure show. The event draws approximately 10,000 visitors from across the Ottawa Valley and western Quebec. CNL representatives staffed the CNL booth to share information and facilitate discussion on CNL's activities including the NPD Closure Project. In particular, CNL had to scale models of the proposed cap for the proposed NPD disposal facility, a video and other communications materials.

3.7.9 Downtown Connect: Pembroke Community Expo – 2019 May 10 – 11

CNL had a booth at the annual Pembroke Community Expo where community members could learn more about the NPD Closure Project through the NPD model, video and through discussing the project with CNL representatives.

3.7.10 School House Museum Strawberry Social – 2019 June 23

CNL representatives attended the annual Strawberry Social at the School House Museum in 2019. Poster boards, feedback forms and factsheets were available and event attendees could ask questions and share feedback with CNL staff.

3.7.11 Petawawa Showcase – 2023 April 28 - 30

CNL attended the Spring Petawawa Showcase 2023 April 28-30. It is the Ottawa Valley's largest spring and fall home, consumer and leisure show. The event draws approximately 10,000 visitors from across the Ottawa Valley and western Quebec. CNL representatives staffed the CNL booth to share information and facilitate discussion on CNL's activities including the NPD Closure Project.

3.8 Web Page Content

CNL has established a project-specific webpage: www.CNL.ca/NPD. In addition, quick links have been added to the landing page, raising project visibility and easing access to the appropriate pages. Since 2016 August, updated information has been added to the project webpage, and webpage activity continues to be tracked and analyzed using Google Analytics.

The webpage has been updated with new content as it becomes available, most recently in the spring of 2022. Frequently asked questions, project infographics, informational videos, a project description, the draft EIS, poster boards, quick facts, the project timeline and public comments on the draft EIS broken down into themes have all been added to the NPD Closure Project webpage.

Stakeholder(s): All stakeholders.

See Appendix G for an example of a webpage update.

3.8.1 Audience Analytics

Web page activity has been tracked and analyzed using Google Analytics. These web page analytics provide insight into public interaction with the project, as it excludes visitors from within the CNL network. This allows CNL to continue to improve web content and respond to how users are accessing information.

Table 3-7 shows the web page audience analytics for the NPD pages in comparison to CNL.ca web pages. The analytics indicate that those interested in the project spent on average over twice as long on the project pages and looked at one more webpage associated with the CNL site than the average CNL visitor. This demonstrates that the dedicated project pages are an effective avenue for interested parties to find project information as they, on average, stayed on the pages longer and visited more of the informational pages.

Bounce rates are the percentage of visits in which a user left the site from the entrance page without interacting with the page. This rate on the project pages continues to demonstrate that users engage with the information made available. A pattern of low percentages indicates that upon accessing project pages visitors remained and interacted with the available material.

Note that the drop in bounce rate from 2018 to 2019, seen in Table 3-8, could be a result of extensive reformatting of the NPD web pages. Another reason for this drastic change in bounce rate could be the result of a large number of users accessing the NPD web pages during the EIS comment period seeking out particular information and then leaving after obtaining this information. This kind of usage of the web content also occurred in 2018 during media coverage of the project related to effluent discharge and again in 2021 March, see Section 3.15 of this report.

Stakeholder(s): All stakeholders.

Table 3-7: Audience Analytics Summary

	April 2017 – January 2024	
	cnl.ca Webpages	**NPD Webpages**
Users	730,593	15,889
Page Views	3,220,646	110,991
Pages per session	2.88	3.42
Average Session Duration	2:45	5:58

Table 3-8: Audience Analytics Summary by Year

cnl.ca/npd	2017	2018	2019	2020	2021	2022	2023
Users	167	6,057	2,374	2,904	1,417	2,054	1,640
Page Views	454	17,378	14,731	16,111	16,182	28,316	24,056
Pages per session	2.48	2.49	4.41	3.76	4.84	12.53	2.83
Average Session Duration	2:33	2:19	5:41	4:33	5:42	4:27	3:71
Bounce Rate	61.75%	70.88%	35.21%	45.27%	41.86%	NA	NA

3.8.2 Acquisition Analytics

Analysis seems to indicate that it is not difficult for interested stakeholders to find information on the project as the majority of project web page traffic is organic, meaning most users are finding the web pages via a key word search using a search engine.

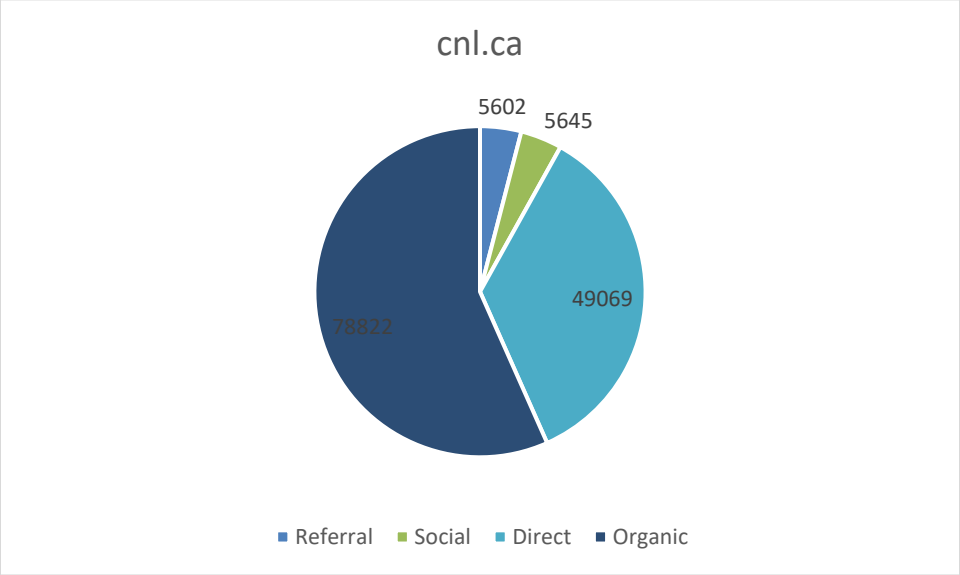
Means of acquisition to project web pages:

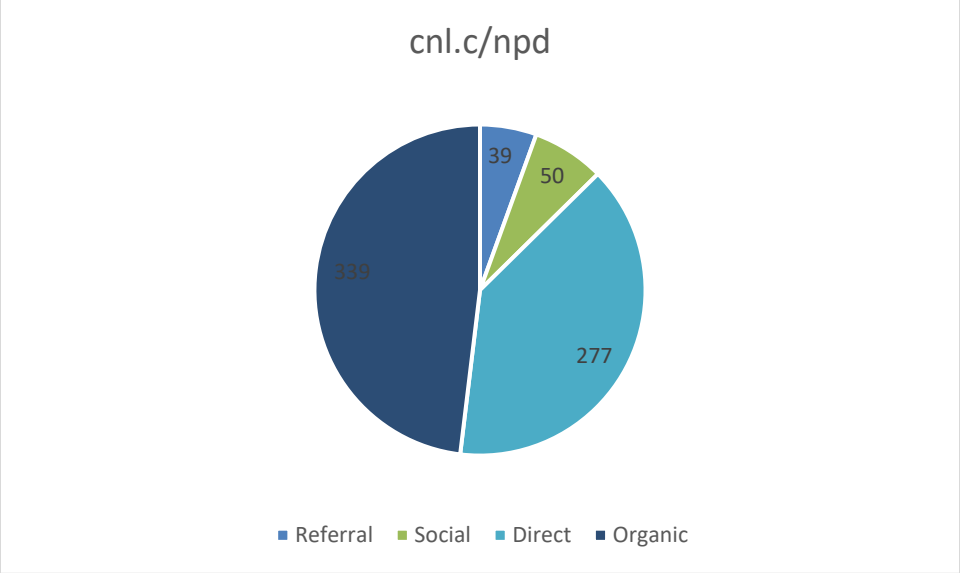
- Referral – link provided by a third party website, email, etc.
- Organic – key word search via search engine
- Direct – input of specific URL
- Social media – from a social media channel, such as Facebook, LinkedIn, Twitter, etc.
- Email – link provided within an email

Table 3-9 below show how the mode of accessing NPD's web page and / or its associated webpages (meaning those web pages that are about NPD and are accessible through the main www.cnl.ca/npd web page) tends to be driven by organic searches, followed by direct searches. Organic traffic consists of visits from search engines, while direct traffic is made up of visits from people entering the specific CNL/NPD URL. This indicates that visitors are more actively seeking information on the NPD Project. CNL could use social media to share

more information on drive traffic to the cnl.ca/npd as it has proven, in the past, to be a successful way of sharing information and increase webpage traffic.

Table 3-9: Means of Acquisition for CNL.ca and NPD project pages





3.8.3 Downloads

Since the NPD Closure Project was proposed, the web content has continuously been updated for visitors to download as it has become available. Downloadable information available for the NPD Closure Project, via the project webpage, includes:

- Infographics and fact sheets
- Timelines
- EIS documents
    1. Draft EIS
    2. EIS Executive Summary
- Project Description
- Administrative Protocol between CNL and the CNSC for the NPD Closure Project
    - Protocol
    - Appendix A, revision 4, July 2020
- Sets of posters from the latest Virtual Open House:
    - Long-term Safety
    - Protecting the Ottawa River
    - What We've Heard -1
    - What We've Heard -2
    - Grout
    - Closure of the NPD Facility
- Five issues of CNL's CONTACT newsletter featuring information about the NPD Closure Project:
    - 2018 Summer
    - 2018 Winter
    - 2017 Spring
    - 2017 Winter
    - 2016 Summer
- NPD Press Kit

In 2023 this information has been downloaded 591 times.

3.8.4 Infographic / Fact Sheets

Six infographics are available online (and copies are used at virtual information sessions and community events) to better convey information in a succinct digestible format for members of the public. A fact sheet was also made available earlier in the project, however the factsheet was replaced with the more updated content in the infographic as the project progressed.

The infographics cover topics like; the grout mixture, the protection of the Ottawa River, long-term safety, what CNL's heard from engagements and a general project summary.

The infographics are published on the web page and used at other community events. The infographics have proven to be an effective method for relaying some technical aspects of the project in a simplistic format that the general public can understand.

Stakeholder(s): All stakeholders.

See Appendix H for the NPD infographics.

3.8.5 Project Webpage Feedback Mechanisms

On the project web page, there are mechanisms for the user to share feedback on the project through an online submission form. There is also a "mail to" hyperlink on every project page that sends an email into the CNL Corporate Communications general mail box.

3.9 External Newsletter - CONTACT

CNL's CONTACT newsletter is published and mailed to approximately 55,000 residences in the Renfrew and Pontiac Counties and is available on CNL.ca. This publication informs the reader on activities undertaken at CNL's various sites and profiles CNL's community activities.

There are currently seven issues of CONTACT that have discussed aspects of the NPD Closure Project. The first was the 2016 Summer issue of CONTACT, which focused on CNL's major projects (including the NPD Closure Project), and related Environmental Assessment activities.

The following issues had an update or feature on the NPD Closure Project included:

1. 2020 Fall – Kids CONTACT
2. 2020 Spring – Kids CONTACT
3. 2018 Summer
4. 2018 Winter
5. 2017 Spring
6. 2017 Winter
7. 2016 Summer

Stakeholder(s): Local and host communities.

See Appendix I for an example of a CONTACT newsletter.

3.10 Email

Emails have been used to connect with internal and external stakeholders, as well as with NGOs. In particular, emails were sent out to promote different events, to advise of the public comment period on the draft EIS and to provide responses to questions submitted electronically. Stakeholders are encouraged to be added to an email distribution list to receive notices of upcoming events related to the project (webinars, breakfast briefings, etc.). The current list has over 250 stakeholders.

Stakeholder(s): Local and host communities, local elected officials, media, Indigenous communities

See Appendix J for an example of a stakeholder email.

3.11 Advertising

CNL has used many different means of advertising including advertisements in local newspapers, radio advertisements, flyer inserts in local distributions and social media posts to publicize public information sessions and project information.

3.11.1 Advertising Methods

- Advertisements posted on CNL.ca landing page and the project-specific webpage: www.cnl.ca/npd
- Advertisements have been included in online version of CNL's CONTACT newsletter when applicable.
- Newspaper advertisements (See Table 3-11 for circulation numbers of main newspapers utilized).
- Radio advertisements – CNL has dedicated public service announcement spots on Star 96.7, when applicable it was used to advertise specific project events.
- Paid Facebook advertising via "Boosted Posts".

Table 3-10: Newspaper Circulation Numbers

Newspaper	Circulation
North Renfrew Times	4,000
Pontiac Journal (bi-weekly)	9,400
Shawville Equity	4,046
The Valley Gazette	2,300
Eganville Leader	6,200
Renfrew Mercury	8,105
Arnprior Chronicle	6,217
Petawawa Post	7,800
The News	29,000
Daily Observer	3,000
Flyer Insert	30,000

Stakeholder(s): All stakeholders.

See Appendix K for a sample advertisement.

3.11.2 Public Service Announcements

CNL has had dedicated spots on the local radio station Star 96.7, based in Pembroke, ON, for over 10 years. CNL utilizes these to promote local events and not-for profit organizations, however, when there are events such as public information sessions Public Service Announcements are used for advertising. The Public Service Announcement run on the radio station four times a day and have an average reach of 35,000 listeners.

Stakeholder(s): All stakeholders.

See Appendix L for a sample script of a PSA.

3.12 Intranet – myCNL

The internal website has been used to communicate with internal stakeholders with updates on the project and publicizing events related to the project. Posts on the NPD Closure Project were shared on myCNL to educate, inform and provide updates on the project to employees.

Stakeholder(s): CNL Employees.

See Appendix M for an example of a myCNL posting.

3.13 Internal Newsletter – Voyageur

CNL's internal newsletter, Voyageur, is published each month to update current and former CNL employees (former employees can sign up as "CNL Alumni" to receive updates and the Voyageur newsletter from CNL, there are around 600 individuals on this distribution list). To date, the following articles on the NPD Closure Project have been published in the newsletter:

1. 2021 September – Protecting Species At Risk At The NPD Site
2. 2021 March – CNL Projects Visit Ottawa Council
3. 2021 February – A Billion Neutrons Can't Be Wrong
4. 2020 December – Key Milestone for NPD Closure Project
5. 2020 September – Where Do Things Stand with NSDF & NPD?
6. 2020 April – Using Virtual Reality to Enhance Safety
7. 2020 January – Local Elected Officials Visit the CRL Campus
8. 2019 December – #Coolthings We Did In 2019
9. 2019 February – CNL welcomes public officials to CRL
10. 2018 December – CNL celebrates a successful 2018
11. 2018 July – Reilly Bird Nature Reserve
12. 2018 February – NPD Closure: what's next?
13. 2017 November – NPD Closure Project underway
14. 2017 September – NPD tour at #CNLOpenHouse
15. 2017 May – The year ahead: DWM
16. 2017 April – Swipe right

Stakeholder(s): CNL employees, industry.

See Appendix N for an example of a Voyageur article.

3.14 CNL Social Media

Social media is used to inform, educate, and promote awareness for all of CNL's activities including NPD Closure Project events and to receive feedback on the project.

Facebook is our largest platform where we see the strongest engagement through "comments, shares and likes" of posts. When CNL wished to raise the profile of project events or information "boosted" posts were

used to target by location and demographics. “Boosted” posts are paid posts through Facebook. X, formerly Twitter, has not been used as broadly as Tweets have been found to receive very little traction, and comparatively CNL has a much larger Facebook following. While numbers are significantly larger on LinkedIn the demographics are far more industry based, rather than general public. Therefore, CNL utilizes LinkedIn, but in a much lower capacity than Facebook to ensure engagement is a balanced approach with general public in comparison to those actively part of the nuclear industry. YouTube has also been used successfully to engage with stakeholders. All webinars have been posted and specific information on the Chimney Swifts and a virtual tour of the reactor and facility have also been shared.

The CNL social media accounts continue to gain followers and build communication through multiple social media accounts, including adding an Instagram account. The metrics on Instagram are not provided below as there have not been enough posts related to NPD Closure Project.

Stakeholder(s): All stakeholders.

Table 3-11: CNL Social Media Accounts

Social	Link	Followers*
Facebook	www.facebook.com/CanadianNuclearLaboratories	5,230
X (formerly Twitter)	www.twitter.com/CNL_LNC	1,952
YouTube	www.youtube.com/channel/UC2GCEfZQgsURh4t_QZ-JwCw	949
Instagram	www.instagram.com/canadiannuclearlaboratories/	1,087
LinkedIn	www.linkedin.com/company/canadian-nuclear-laboratories/	24,933

*As of 2024 January

3.14.1 Facebook

Facebook is the platform with the strongest engagement through “comments, shares and likes” on posts. When CNL wants to raise the profile of project events or information, paid Facebook advertising (through “boosted” posts) was used to target by location and demographics.

Facebook has been used effectively for engaging with the public, advertising events and sharing information on the NPD Closure Project. The posts related to the 60th Anniversary Open House at the NPD site and livestream of the Swift Count night were the most popular posts in 2022-2024. From 2020 January to 2024 January CNL has posted a total of 148 times in relation to the NPD Closure Project, captured in Table 3-12. CNL Facebook posts generate more likes than other forms of engagement.

Table 3-12: NPD Facebook Analytics 2020-2024

Engagement metric	Total*
Likes	2,995
Shares	1,945
Comments	271

*2024 January

See Appendix O for an example of an NPD-specific Facebook post.

3.14.2 X, formerly Twitter

X, formerly Twitter has not been used as broadly as Tweets have been found to receive very little traction, and comparatively CNL has a much larger Facebook following. Table 3-13 shows that on average impressions and engagement per post has remained consistent over the years. Table 3-14 shows a summary of the X, formerly Twitter analytics from 2020 January to 2024 January.

Table 3-13: NPD X, formerly Twitter Analytics 2020 January – 2024 January

Engagement metric	Total
Number of tweets	33
Impressions	23,389
Engagements	607

Table 3-14: NPD X, formerly Twitter Analytics Summary

2022/2023					
Metric	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Number of Tweets	5	N/A	2	1	8
Impressions	1,512	N/A	408	107	2,027
Engagements	28	N/A	14	1	43
2021/2022					
Metric	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Number of Tweets	4	N/A	1	N/A	5
Impressions	4,044	N/A	225	N/A	4269
Engagements	38	N/A	0	N/A	38
2020/2021					
Metric	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Number of Tweets	4	3	3	3	13
Impressions	5,829	2,291	2,373	2,896	13,389
Engagements	184	42	45	55	326
2019/2020					
Metric	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Number of Tweets	3	2	3	N/A	8
Impressions	2,567	2,723	4,117	N/A	9,407
Engagements	74	75	34	N/A	183
2018/2019					
Metric	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Number of Tweets	6	5	1	2	14
Impressions	4,378	4,663	1,379	1,770	12,190
Engagements	69	126	20	29	244
2017/2018					
Metric	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Number of Tweets	17	4	12	10	43
Impressions	10,777	5,951	7,397	7,906	32,031
Engagements	427	116	203	339	1,085

***Impressions**: number of times a user saw the Tweet on X, formerly Twitter*

***Engagement**: total number of times a user interacted with the Tweet*

See Appendix P for a sample of an NPD-specific tweet.

3.14.3 YouTube

Forty-one videos, including information on mitigation for the Chimney Swift population, a virtual tour of the facility and project updates have been uploaded to YouTube. The videos have been added in an effort to make information and technical information more accessible. Table 3-15 Table 3-17 details, the date the video was posted, video titles and number of views to date.

Table 3-15: YouTube Views

Date	Video	Views*
2023 December 05	NPD : Planning for Site Restoration	86
2023 December 05	NPD: planification de la restauration du site	17
2023 October 23	NPD Webinar – Long Term Safety Assessment	28
2023 October 23	Réacteur NPD Évaluation de la sécurité à long terme - septembre 2023	14
2023 May 02	Nuit de comptage des martinets de cheminée 2023	12
2023 May 02	2023 Chimney Swift Count Night	113
2023 February 28	NPD Closure Project - February 2023	37
2023 February 28	Projet de fermeture du NPD - février 2023	15
2022 September 28	NPD and WR 1 webinar Who Supports an Environmental Assessment Project	40
2022 September 28	NPD et WR 1 Webinaire Qui soutient un projet d'évaluation environnementale	10
2022 April 26	NPD EAFMP Technical Discussion: Groundwater Monitoring Program	41
2022 April 26	NPD PSSEE: Programme de surveillance des eaux souterraines	28
2022 April 25	NPD EAFMP Technical Discussion: Environmental and Effluent Verification Monitoring Program	22
2022 April 25	NPD PSSEE: Programme de surveillance et de vérification de l'environnement et des effluents	14
2022 April 05	NPD & WR-1 Webinar - The design of the WR-1 and NPD reactors and In-Situ Disposal	143
2022 April 05	NPD & WR-1 Webinaire - La conception des réacteurs WR-1 et NPD et le stockage définitif in situ	27
2022 January 21	Regulatory Process for the NPD and WR1 In Situ Disposal Projects -2022 January	51
2022 January 21	Webinaire-Le processus de réglementation des projets l'élimination in situ de NPD et du réacteur WR1	12
2021 November 19	NPD Webinar - Development of the Safety Case for the NPD Closure Project – 2021 November	73
2021 November 19	NPD Webinaire - L'élaboration de dossier de sûreté du projet de fermeture du NPD - 2021 novembre	12
2021 June 24	NSDF & NPD Webinar - 2021 June	78
2021 June 24	IGDPS & NPD Webinaire - 2021 juin	28
2021 June 02	2021 Virtual Chimney Swift Count Night	104
2021 May 19	Webinar: NSDF and NPD "Town Hall" Webinar - 2021 May	64
2021 May 19	Réunion Publiques Virtuelle d'IGDPS et du NPD - mai 2021	7
2021 March 19	NSDF and NPD "Fact or Fiction" Webinar - 2021 March	125
2021 March 19	IGDPS & NPD Webinaire "Mythe ou Réalité" - 2021 mars	21
2021 February 22	Follow-up Monitoring for the NPD Closure Project Webinar - 2021 February	53
2021 February 22	Suivi du projet de fermeture du NPD Webinaire - 2021 février	27
2020 December 17	Webinar: NSDF and NPD project updates	126
2020 October 06	Webinar: Barriers of the Proposed NPD Disposal Facility	113
2020 June 26	Webinar: NSDF and NPD Alternative Options	230
2020 June 01	2020 Virtual Chimney Swift Count Night	806
2019 December 10	Webinar: NSDF and NPD project updates	349
2019 September 30	NSDF and NPD Webinar: 2019 09 30	207
2019 June 17	Webinar: NSDF and NPD project updates	649
2019 March 20	Webinar: NSDF and NPD project updates	376
2018 October 17	Webinar: NSDF and NPD project updates	866
2018 July 19	Video Tour - Nuclear Power Demonstration (NPD) Reactor (Part 2)	1,860
	Video Tour - Nuclear Power Demonstration (NPD) Reactor	2,863

2018 February 06	NPD Closure Project Webinar	449
2017 December 11	NPD Closure Project	1,000
2016 November 24	The Story of NPD – a Canadian first!	7,873
2016 November 10	NPD Closure Project: Chimney Swifts	383
2016 November 10	Projet de fermeture du réacteur nucléaire de démonstration: Le Martinet ramoneur	53
2016 October 14	Nuclear Power Demonstration Closure Project Overview	964
2016 October 14	Projet de fermeture du réacteur nucléaire de démonstration	39

*As of 2024 January

3.14.4 LinkedIn

While numbers are significantly larger on LinkedIn the demographics are far more industry based, rather than general public. Therefore, CNL utilizes LinkedIn, but in a much lower capacity than Facebook to ensure the focus of engagement is balanced between social media outreach to the general public and social media outreach to those actively involved in the nuclear industry. Since CNL posts less than five posts specific to NPD on LinkedIn per year, the analytics have not been included for previous years. Analytics for the eight LinkedIn posts from 2020 January to 2024 January are captured in Table 3-16.

Table 3-16: NPD LinkedIn Analytics 2020 January – 2024 January

Engagement metric	Total
Number of posts	8
Reactions (Likes)	283
Comments	1
Shares	452
Impressions	20,049

See Appendix Q for an example of a NPD-related LinkedIn post.

3.15 Media

The NPD Closure Project was in the media 110 times between 2017 April and 2024 January.

Media coverage was at its highest during the third and fourth quarter of the 2017-2018 fiscal year. These two quarters correspond with the draft EIS public comment period between 2017 November 15 and 2018 February 13. This suggests that CNL's efforts at notifying the public to support participation in the environmental assessment process were successful.

An additional reason for the spike in media coverage related to the project in Q4 of 2017-2018 was a report that there were uncontrolled releases from the site. This report came out of information shared by the project and was misconstrued as harmful releases in the media. CNL responded to this media coverage with letters to the editor correcting the misinformation. These "detect and correct" letters were published online by CNL and in the Aylmer Bulletin in late March and early April of 2018 respectively.

Media attention regarding the NPD Closure Project increased in 2021 March due to the meeting of the City of Ottawa Standing Committee on Environmental Protection, Water and Waste Management (see Section 3.1.57). CNL sought and welcomed opportunities to share information about the NSDF and NPD projects and respond to comments from members of the public.

CNL has responded to and sought media coverage much more actively during the COVID-19 Pandemic. CNL will continue to do so as the NPD Closure Project progresses through the Environmental Assessment process, providing accurate information about the project to a wide audience.

See Table 3-17 below for the details of media coverage.

Table 3-17: Media Coverage

NPD Closure Project Media Coverage			
2017-2018 Q1			
2017 May 03	Chiefs of Ontario join opposition to transport and burial of nuclear waste near Ottawa River	APTN News	News
2017 May 03	Indigenous leaders unify against transport of radioactive waste	Two Row Times	News
2017 June 14	On This Day: 40 Years Ago	North Renfrew Times	Other
2017-2018 Q2			
2017 July 13	Meeting about NSDF in Ft. William	The Daily Pembroke Observer	News
2017 July 19	Pontiac mayors visit proposed nuclear disposal site near Ottawa River	The Pontiac Observer	News
2017 August 05	Chapeau learns about NSDF	The Daily Pembroke Observer	News
2017-2018 Q3			
2017 October 04	Policy vacuum on Ottawa's radioactive waste	The Aylmer Bulletin	Letter to the Editor
2017 November 15	NPD Tour	North Renfrew Times	Other
2017 November 15	Public comments invited on draft environmental impact statement for Nuclear Power Demonstration Closure Project	Canadian Nuclear Safety Commission	Media release
2017 November 22	Comments open on proposed NPD closure plan	North Renfrew Times	News
2017 December 01	Decommissioning of CANDU prototype moves forward	World Nuclear News	News
2017 December 06	Public comment period open on next phase of NPD closure	The Daily Pembroke Observer	News
2017 December 11		MyFM	Radio interview
2017 December 20	NPD site will be monitored, Swisha told	North Renfrew Times	News
2017-2018 Q4			
2018 January 07	CNL reactor decommissioning process continues	The Daily Pembroke Observer	News
2018 February 03	The final chapter for an historic reactor	The Daily Pembroke Observer	News
2018 February 05	It's not too late to register for CNL's webinar	Renfrew Today	News
2018 February 12	Déchets radioactifs à Chalk River	L'AUT Journal	News
2018 February 14	They think we are idiots!	The Pontiac Journal	Editorial
2018 March 21		Ottawa Morning (CBC radio)	Radio interview
2018 March 21	Reactor's neighbours alarmed over radioactive toxins in river	CBC Online	News
2018 March 22		News Talk 1010 – The Rick Gibbons Show	News

NPD Closure Project Media Coverage			
2018 March 22	Experts say high release limits for radioactive tritium endanger humans and other species that drink water from the Ottawa River	Old Fort William Cottagers' Association	Media release
2018 March 22	Nuclear problem bad, could get worse for Ottawa River	OttawaMatters.com	News
2018 March 22	Clarifications on recent CBC reporting	Canadian Nuclear Laboratories	Other
2018 March 26		1310 News	Radio Interview
2018 March 26	Concerned citizens group sounds alarm over dumping of tritium in Ottawa River	MyFM	News
2018 March 28	CNL, CNSC respond to "alarming" report on NPD releases	North Renfrew Times	News
2018 March 28	Dumping toxin-laced water into the Ottawa River must stop	The Aylmer Bulletin	News
2018 March 28	Ottawa River contaminated with nuclear waste	The Aylmer Bulletin	News
2018 March 28	"Crazy Proposal" To Entomb Nuclear Reactor	The Pontiac Journal	Letter to the Editor
2018 March 30	Environnement et lobby nucléaire au Canada	Mondialisation.ca	News
2018-2019 Q1			
2018 April 04	Three Mile Island Anniversary	Aylmer Bulletin	Letter to the Editor
2018 April 11	CNL Responds to Environnent Column	Sent to Pontiac Journal	Letter to the Editor
2018 May 24	Nuclear waste and water don't mix	Aylmer Bulletin	Letter to the Editor
2018 May 24	Toxin releases into the Ottawa River	Aylmer Bulletin	Letter to the Editor
2018 June 13	Support the Ottawa Riverkeeper	Aylmer Bulletin	Letter to the Editor
2018-2019 Q2			
2018 July 18	CNL teams up with Ontario Nature at Reilly Reserve	North Renfrew Times	News
2018 August 22	CNL expects hearings on local projects	North Renfrew Times	News
2018 August 23	Chalk River Labs the Focus of Nuclear Safety Commission Meeting in Ottawa	Star 96.7	News
2018 August 29	Open House at Nuclear Power Demonstration Facility – Final statement and public hearing delayed	Pontiac Journal	News
2018-2019 Q3			
2018 November 07	Want to live in Chernobyl?	Aylmer Bulletin	Letter to the Editor
2018 November 07	Ottawa's Nucleocracy	Aylmer Bulletin	Letter to the Editor
2018-2019 Q4			
2019-2020 Q1			

NPD Closure Project Media Coverage			
2019 May 27	Parliament should investigate what Canadians have gotten for their nuclear waste funding	The Hill Times	Letter to the Editor
2019 May 29	Decommissioning of NPD at Chalk River could start next summer	MyFM Pembroke	News
2019 June 10	Fight over Ottawa River nuclear waste dump getting political, but Liberals downriver standing behind the project – or staying quiet	The Hill Times	News
2019-2020 Q2			
2019 July 29	Protesters take to Ottawa River against Chalk River's nuclear waste disposal plan	Pembroke Observer	News
2019 July 31	Public invited to open house on decommissioning of NPD reactor	Pembroke Today	News
2019-2020 Q3			
2019 December 20	SNC Lavalin and Texas Firms Argue for Ottawa River radioactive dumps	West Quebec Post	News
2019-2020 Q4			
2020 January 27	Open Letter to the Prime Minister	The Hill Times	Advertisement
2020-2021 Q1			
2020 May 08	Interview with Brian Wilcox, Director of the NPD Closure Project	myFM	*never aired
2020 May 20	CNL sent back for more work on NPD project	North Renfrew Times	News
2020 June 15	Déchets nucléaires: des associations s'inquiètent de changements réglementaires	La Presse	News
2020 June 17	Lives matter along the Ottawa River	Pontiac Journal	Opinion
2020-2021 Q2			
2020 September 23	Waste disposal webinars update public	The Equity	News
2020-2021 Q3			
2020-2021 Q4			
2021 February 22	Nuclear waste dump opponents press City of Ottawa to reject the upstream project at Chalk River	Ottawa Citizen Ottawa Sun	Article
2021 February 24	Proposed nuclear waste facility not a 'dump'	Ottawa Citizen	Letter to the Editor
2021 February 24	It has to be done	North Renfrew Times	Letter to the Editor

NPD Closure Project Media Coverage			
2021 February 24	Opposing small module reactors to protect the water	Anishinabek News	Article
2021 February 24	What has to be done?	North Renfrew Times	Letter to the Editor
2021 February 24	Done Right	North Renfrew Times	Letter to the Editor
2021 March 03	AECL to get $1.2 billion for 2021-22	North Renfrew Times	Article
2021 March 11	Provided information to the Valley Gazette about the NSDF and NPD projects	Valley Gazette	Never Published
2021 March 29	Company defends proposed 'low level' nuclear waste facility as Ottawa council asked to weigh in	Ottawa Citizen	Article
2021 March 29	Kavanagh: Chalk River nuclear waste disposal site threatens Ottawa's River	Ottawa Citizen	Opinion
2021 March 29	Ottawa council asked to weigh in as company defends proposed 'low level' nuclear waste facility	Ottawa Sun	Article
2021 March 29	Updated plan for nuclear waste site fails to convince critics	CBC Radio All in a Day	Interview
2021 March 29	Company defends proposed 'low level' nuclear waste facility as Ottawa council asked to weigh in	Pembroke Observer	Article
2021 March 30	City Council to Discuss Proximity of Ottawa River to Chalk River Storage plans for Radioactive Waste	Ottawa Morning	Interview
2021 March 30	City committee examines plans to bury nuclear waste upstream	CBC	Article
2021 March 30	Ottawa environment committee doesn't oppose Chalk River waste facility, but states concerns	Ottawa Citizen	Article
2021 March 30	Concerns over Canadian Nuclear Laboratories Disposal of Radioactive Waste Upstream from Ottawa	CBOT-TV - OTTAWA	CBC Ottawa News A 6 CTV News At Six
2021 March 30	Atomic Energy of Canada Limited Accountable for Nuclear Waste Disposal Issues and Costs	CBC Radio 1	News
2021 March 30	Dépotoir nucléaire à Chalk River: améliorations réclamées à Ottawa	Le Droit	Article

NPD Closure Project Media Coverage			
2021 March 31	Ottawa committee concerned, but not opposed, to proposed nuclear waste facility near Ottawa River	CTV News (republished CTV News Edmonton)	Article
2021 March 31	City's environment committee pushes for more details, reassurance about Chalk River nuclear waste projects	Capital Current	Article
2021 April 13	Hendrickson: Council can do more to protect the Ottawa River from radioactive leaks	Ottawa Citizen	Letter to the Editor
2021-2022 Q1			
2021 April 14	Council briefs	Ottawa Citizen	Article
2021 April 20	City's environment committee pushes for more details, reassurance about Chalk River nuclear waste projects	Capital Current	Article
2021-2022 Q2			
2021-2022 Q3			
2021-2022 Q4			
2022 January 26	NPD project delayed for Indigenous Consultation	North Renfrew Times	Article
2022-2023 Q1			
2022 April 08	NSDF petition on the House of Commons website and registration available for NPD environmental assessment	Renfrew Today	Article
2022 April 08	NSDF petition on the House of Commons website and registration available for NPD environmental assessment	Pembroke Today	Article
2022 June 09	60th anniversary open house for Nuclear Power Demonstration near Rolphton on June 25th	MyFM Pembroke Today	Radio interview and article
2022 June 29	NPD Open House	North Renfrew Times	Article
2022-2023 Q2			
2022-2023 Q3			
2022 November 16	CNL public information sessions in Upper Pontiac	Shawville Equity	Article
2022 November 16	CNL holds public meetings on waste storage options	Pontiac Journal	Article
2022-2023 Q4			
2023-2024 Q1			

NPD Closure Project Media Coverage			
2023 May 08	What would nuclear power look like for the Prairies?	CBC	Article
2023 May 10	CNSC, CNL fail to build "trust" on NSDF	North Renfrew Times	Article
2023-2024 Q2			
2023-2024 Q3			
2023-2024 Q4			
2024 January 17	CNL seeks input on NPD property	North Renfrew Times	Article

See Appendix R for an example of media coverage.

See Appendix S for an example of a “detect and correct” response from CNL.

3.16 Document Repository – 2017 November

Canadian Nuclear Laboratories made four hard copies of the draft EIS publicly available, functionally creating a document repository for the draft EIS volumes. One hard copy of the draft EIS was available at the Deep River Public Library, two copies were made available through two separate branches of the Laurentian Hills Public Library and a French version of the draft EIS was made available through the Rapides-des-Joachim municipal offices.

3.17 Participant Funding

The CNSC offered participant funding through its Participant Funding Program (PFP) to assist members of the public, Indigenous groups and other stakeholders in participating in the environmental assessment, licence application review and Commission hearing processes for CNL’s NPD Closure Project. Recipients provide value-added and relevant information that contributes to a better understanding of the anticipated effects of a project. Recipients also participate in the CNSC’s proceedings for this project. The CNSC’s decision on who has received funding on to participate is available in the CNSC Participant Funding Program Decision: Canadian Nuclear Laboratories’ Nuclear Power Demonstration Closure Project.

Please find information on participant funding for the NPD Closure Project at this link: http://nuclearsafety.gc.ca/eng/pdfs/participant-funding-program/2017/CNL-NPD-closure-2016-eng.pdf.

CNL considers those that have applied and received funding from the PFP as stakeholders that have self-identified as especially interested in the project. As such, CNL has made efforts to reach out to recipients of participant funding with offers to provide information and meet with these individuals and / or organizations.

4. Feedback

The engagement activities discussed in the previous section provide CNL with an opportunity for dialogue with public on their concerns with respect to the NPD Closure Project. The feedback provided through engagement activities helps CNL gauge public views and points out areas where CNL can improve elements of the project or EIS on current project information, alternative means, valued components, spatial and temporal boundaries and the follow-up monitoring program. This section summarizes the key themes that have been raised during outreach activities, including web inquiries, emails and formal feedback on the draft EIS. It also demonstrates how CNL has responded and, when possible, incorporated this feedback into the development and design of the NPD Project as well as the updated final EIS. Additionally, the project has posted these key themes and how they will be incorporated into the final EIS on the NPD Closure Project webpage: https://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/january-2019-npd-closure-project-updates/default.aspx.

Table 4-1 presents a comparison of the themes identified through public engagement (engagement feedback) and those identified through formal public comments during review of the draft EIS.

Table 4-1: Key Themes

Themes from Public Engagement	Themes from Formal Public Comment Period on Draft EIS
Inventory	Radiologic Inventory
Monitoring	
International guidance	IAEA Guidance for In-situ Decommissioning
Earthquakes	Impacts from Earthquakes
Grout	Grout and Concrete Degradation
Design	Design and Engineering Details
Species at risk	
Next land use	
Cost/funding	
NPD history	
	Alternative Means and Approaches
Ottawa River	Proximity to the Ottawa River
	Indigenous Engagement

4.1.1 Public Engagement Feedback

This section summarizes feedback received from NPD Closure Project's public engagement outreach activities. Table 4-2 provides a summary of relevant environmental effects, describing the extent to which this feedback was incorporated into the design of the project and demonstrates how the public influenced the scope of the environmental assessment.

Table 4-2: Summary of Interest Raised During Public Engagement Activities that Influenced the Scope of the Environmental Assessment

Interest Expressed During Public Engagement	Incorporation of Public Engagement Key Issues into the Final EIS
Inventory	CNL received several requests for information on the exact radiological content of the NPD facility that will be on-site for disposal. Neutron flux modelling using modern 3-dimensional codes and libraries combined with physical sampling were undertaken to ensure that the inventory of the reactor has been appropriately accounted for. CNL has also completed a full building characterization (described in the NPD Facility Characterization TSD), including all nuclear systems to verify the total radiological inventory. Since the reactor contains most of the remaining radiological inventory (the fuel was removed in 1988), the completion of this additional analysis allowed CNL to compare field sampling measurements to models to provide confidence in the radiological inventory. Section 4.4.1.1 of the EIS summarizes the radiological inventory of the facility.
Monitoring	Proposed follow-up monitoring activities for the Execution and Institutional Controls phases are described in Sections 9 and 12 of the EIS. Note that the EIS presents a proposed description of the follow-up monitoring activities. The final follow-up monitoring program will be developed incorporating federal reviewer and stakeholder feedback from the draft EIS review. The proposed follow-up monitoring during demolition and grouting activities will include emission and effluent monitoring as well as regular Chimney Swift counts during their seasonal presence at NPD. The proposed follow-up monitoring during the Institutional Control period will include visual inspections and monitoring the groundwater for parameters that would trigger the need for additional investigation and potential mitigating actions.

Interest Expressed During Public Engagement	Incorporation of Public Engagement Key Issues into the Final EIS
International guidance	CNL received questions about the International Atomic Energy Agency's (IAEA) safety standard for decommissioning which states that in-situ disposal is not a suitable option for all nuclear facilities and should be considered only under certain conditions. CNL agrees that not ALL nuclear facilities are suited for in-situ disposal and considers that NPD has features which make it suitable for long-term disposal such as its location 80 feet below grade into bedrock and the thick concrete basement structure. CNL is following IAEA safety standards for the decommissioning of the facility and more importantly is also following the IAEA safety standards for waste disposal, since the facility – in its end state – would be classified as a disposal site. It is important to note that CNL is also following Canadian standards and regulatory guidance for decommissioning the NPD facility and Canadian regulations for the creation of a disposal facility. Section 9.1 of the EIS outlines how the project is aligned with international guidance.
Earthquakes	CNL has conducted additional detailed quantitative analysis to assess how a catastrophic earthquake – one that might occur once every ten thousand years – would affect the facility. Results show that cracks would develop mainly in the areas of the NPD facility which are above the bedrock level. The grouted reactor vault would not be affected as it is well below this depth, with the grout providing increased protection against the stresses of the earthquake. Modelling updates show that any impacts to the public or environment from such an earthquake would be well below the regulatory limits. CNL is also conducting additional geological site characterization work to strengthen our understanding of the geology around the NPD site. This additional analysis and modelling is reflected in Section 9.14.7 of the EIS and the Geosynthesis TSD.
Grout	The NPD reactor structure will be filled with custom grout formulations to help contain and isolate contaminants, ensure stability, and to reduce corrosion of the reactor components. CNL has developed specially-formulated grout based on the unique requirements of the NPD facility, and conducted extensive research on the use of grout in similar circumstances. It has also conducted a test program using locally-sourced materials to verify that the grout formulae requirements can be met. The test included fresh and cured properties, such as the ability of the grout to flow around piping and tanks, as required. Combined with the existing robust structure of the underground facility, the proposed grouting process will enhance protection of people and the environment. EIS Section 4.3 provides the necessary details on grout and grout formulations.

Interest Expressed During Public Engagement	Incorporation of Public Engagement Key Issues into the Final EIS
Design	At the time of the submission of the draft Environmental Impact Statement, CNL had completed a preliminary design of the disposal facility. CNL now has a more detailed design of the disposal facility, including the engineered barrier and the grout. Information on project components and design is summarized in Section 4.3 of the EIS, and greater detail is laid out in the Detailed Decommissioning Plan TSD.
Species at risk	The original decommissioning design included building an alternative habitat and demolition of the existing ventilation stack. In order to minimize the risk to the Chimney Swifts, CNL decided to retain the existing ventilation stack, instead of demolishing it and replacing it with an alternative habitat. This decision was made with input from a panel of experts composed of academia, government agencies and Non-Governmental Organizations (NGOs). Section 9.6 of the EIS includes an assessment of the potential impact on the Chimney Swifts as a result of the project activities (e.g. noise, dust, vibration and light) which is a summary of the Chimney Swift TSD. Since their current roost will be retained, the project predicts the effects will be minimal given project activities will occur during daylight hours when the Chimney Swifts are out foraging. A subject matter expert on Chimney Swifts provided advice to CNL on how to protect the Chimney Swifts during project activities using best practices, mitigation measures and how to monitor the impacts to the birds. Chapters 9, 10 and 12 of the EIS discusses the mitigation measures and follow-up actions related to the Chimney Swift.
History	CNL has received feedback from former employees interested in the history of the facility. To meet this interest the NPD Closure Project has held a number of Open Houses showcasing the facility (See Section 3.1 of this report details). CNL has also been in dialogue with a local organization, the Society for the Preservation of Nuclear Heritage, to discuss how to enable historical conservation with respect to the project.
Next land use	As clarified in previous open houses and within the EIS, AECL is the Crown Corporation that owns the site and CNL is the operator of the NPD site contracted by AECL to perform the closure of the NPD Site. The final decision on dispositioning of non-impacted land on the NPD site rests with AECL.

Interest Expressed During Public Engagement	Incorporation of Public Engagement Key Issues into the Final EIS
Cost/funding	The Alternative Means Assessment Report TSD presents a high-level cost analysis of the in-situ disposal option compared to other alternatives considered. Funding for the project is provided by Natural Resources Canada and managed by AECL. In response to earlier public feedback, at the October Public Information Sessions CNL included information on the approximate costs of alternative methods.
Ottawa River	Ensuring the continued protection of the Ottawa River is a key focus of CNL's work. CNL has undertaken additional detailed modelling of potential releases from the facility to assess how they could affect the river. This new analysis, included in EIS Section 9.3, supports the conclusion of the EIS that the Ottawa River will continue to be protected. CNL will also issue an updated Post Closure Safety Assessment, which evaluates the potential long-term effects of the project on the public and environment. This update will include the final grout design, results from the geological site characterization and the new, more detailed earthquake assessment. Finally, the project team has developed draft follow-up monitoring plans, which are available for review by interested parties.

See Appendix T for the complete table of informal feedback and issued responses.

4.1.2 Formal Public Comment Period Feedback

In addition to the informal feedback that the public engagement outreach activities offer, the environmental assessment process provides an opportunity for formal feedback from the public. This process began with the formal public and Indigenous comment period on the NPD Closure Project Description in 2016 May. Followed by a formal public and Indigenous comment period on the draft EIS for the proposed NPD Closure Project from 2017 May until 2017 August. Comments from members of the public, Indigenous peoples and NGO's on the draft EIS were consolidated by the CNSC (as the responsible authority) and received by CNL. CNL prepared responses to the formal comments which will be submitted to the CNSC and posted on the CEAA Registry under project #80121. Through analysis of all formal public comments, key themes were identified. Table 4-3 includes a summary of the key themes and how they were incorporated into the final EIS.

Table 4-3: Incorporation of Public Key Issues into the Draft Environmental Impact Statements

Themes from Formal Public Comment Period on Draft EIS	Incorporation of Public Key Issues into the Final EIS
Alternative Means & Approaches	In selecting disposal for the NPD reactor, CNL has considered several alternatives, including continued storage with surveillance, partial dismantling and removal, and full dismantling and removal of the reactor and components (See Alternative Means Assessment TSD). Through its various engagements, CNL was asked to provide more detail in the EIS on how it chose the in-situ decommissioning / disposal method for the NPD Closure Project. EIS Section 4.2 describes the quantitative assessments of the options considered and also include an additional scenario where a new disposal facility becomes available during the institutional control period. Overall, the in-situ disposal method is still considered the safest and preferred option.
Grout and Concrete Degradation	The NPD reactor structure will be filled with custom grout formulations to help contain and isolate contaminants, ensure stability, and to reduce corrosion of the reactor components. CNL has developed specially-formulated grout based on the unique requirements of the NPD facility, and conducted extensive research on the use of grout in similar circumstances. It has also conducted a test program using locally-sourced materials to verify that the grout formulae requirements can be met. The test included fresh and cured properties, such as the ability of the grout to flow around piping and tanks, as required. Combined with the existing robust structure of the underground facility, the proposed grouting process will enhance protection of people and the environment. EIS Section 4.3 provides the necessary details on grout and grout formulations.
Impacts from Earthquakes	CNL has conducted additional detailed quantitative analysis to assess how a catastrophic earthquake – one that might occur once every ten thousand years – would affect the facility. Results show that cracks would develop mainly in the areas of the NPD facility which are above the bedrock level. The grouted reactor vault would not be affected as it is well below this depth, with the grout providing increased protection against the stresses of the earthquake. Modelling updates show that any impacts to the public or environment from such an earthquake would be well below the regulatory limits. CNL is also conducting additional geological site characterization work to strengthen our understanding of the geology around the NPD site. This additional analysis and modelling is reflected in Section 9.14.7 of the EIS.

Themes from Formal Public Comment Period on Draft EIS	Incorporation of Public Key Issues into the Final EIS
Proximity to the Ottawa River	Ensuring the continued protection of the Ottawa River is a key focus CNL's work. CNL has undertaken additional detailed modelling of potential releases from the facility to assess how they could affect the river. This new analysis, summarized in EIS Section 9.3, supports the conclusion of the EIS that the Ottawa River will continue to be protected. CNL will also issue an updated Post Closure Safety Assessment, which evaluates the potential long-term effects of the project on the public and environment. This update will include the final grout design, results from the geological site characterization and the new, more detailed earthquake assessment. Finally, the project team has developed draft follow-up monitoring plans, which are available for review by interested parties.
IAEA Guidance for In-situ Decommissioning	CNL received questions about the International Atomic Energy Agency's (IAEA) safety standard for decommissioning which states that in-situ decommissioning is not a suitable option for all nuclear facilities and should be considered only under certain conditions. CNL agrees that not ALL nuclear facilities are suitable for in-situ disposal and considers that NPD has features which make it suitable for long-term disposal such as its location 80 feet below grade into bedrock and the thick concrete basement structure. CNL is following IAEA safety standards for the decommissioning of the facility and more importantly is also following the IAEA safety standards for waste disposal, since the facility – in its end state – would be classified as a disposal site. It is important to note that CNL is also following Canadian standards and regulatory guidance for decommissioning the NPD facility and Canadian regulations for the creation of a disposal facility. Section 9.1 of the EIS outlines how the project is aligned with international guidance.
Radiologic Inventory	CNL received several requests for information on the exact radiological content of the NPD facility that will be on-site for disposal. Neutron flux modeling using modern 3-dimensional codes and libraries combined with physical sampling were undertaken to ensure that the inventory of the reactor has been appropriately accounted for. CNL has also completed a full building characterization (described in the NPD Facility Characterization TSD), including all nuclear systems to verify the total radiological inventory. Since the reactor contains most of the remaining radiological inventory (the fuel was removed in 1988), the completion of this additional analysis allowed CNL to compare field sampling measurements to models to provide confidence in the radiological inventory. Section 4.4.1.1 of the EIS summarizes the radiological inventory of the facility.

Themes from Formal Public Comment Period on Draft EIS	Incorporation of Public Key Issues into the Final EIS
Design and Engineering Details	At the time of the submission of the draft EIS, CNL had completed a preliminary design of the disposal facility. CNL now has a more detailed design of the disposal facility, including the engineered barrier and the grout. This additional information is found in Section 4.3 of the EIS, and greater detail is laid out in the Detailed Decommissioning Plan.
Indigenous Engagement	CNL is committed to meaningful engagement with local Indigenous communities and is working to establish long term agreements with them. These interactions are on-going and allow CNL to learn how the project could impact the rights and interests of Indigenous groups and to identify actions to be taken. At the same time, Canada's nuclear regulator, the Canadian Nuclear Safety Commission, is also undertaking consultation activities with Indigenous groups. Section 6 of the EIS gives an overview of the ongoing engagement activities related to the NPD Closure Project and the Indigenous Engagement TSD details these activities and the evolving relationship between CNL and identified Indigenous communities.

Through the wide range of communications strategies undertaken, the NPD Closure Project has continued to collect valuable input from stakeholders on current project information, alternative means, valued components, spatial and temporal boundaries, follow-up monitoring program and has incorporated informal and formal feedback into the updated final EIS. The project is continually developing and strives to maintain transparency and open communication with the general public as the project moves forwards. Feedback will continue to be tracked, collected and incorporated (when possible) as a part of the engagement activities into the future.

4.2 Feedback on Valued Components

Section 5.2.4.1 of the EIS outlines the process that was followed to develop the list of Valued Components. The list of VCs (Table 4.4) was presented on informational poster boards during the 2016 June / July and 2016 October public information sessions, as well as on CNL's external website. The informational poster boards also included CNL contact information for feedback on Valued Components. In the 2016 October public information sessions, a questionnaire for visitors to identify the VCs of interest to them was offered, but none of these questionnaires were completed, but no visitors chose to complete the questionnaire).

These informational poster boards also included CNL contact information for feedback on VCs.

In general, organically generated feedback from public information sessions indicated that there are certain areas of interest from the public that correspond to what the project has determined to be VCs so far. Specifically, there have been comments and questions, which unambiguously express value in the Ottawa River (water quality) and Land Use and Planning

(indicated by concern for future land use at the NPD site) as VCs. Comments and concerns also indicate general public interest and concern about protection of the Chimney Swift.

The Ottawa River is represented in the EIS through representative VCs, including aquatic biota, fishing and residents use and enjoyment of land. Land Use and Planning and Chimney Swifts are both included as VCs in the EIS. These topics are also captured in the EIS as Key Issues raised during public engagement activities. See Tables 4.2 and 4.3 in Section 4.1 above for how feedback on these VCs was incorporated into the project.

5. Planned Future Engagements

The summary presented within this Stakeholder Engagement Report is based on engagement activities up to Q4 of 2023/2024.

CNL has planned engagements for fiscal year 2024/2025, described by quarter, and looking ahead into the hearing process and project execution phase.

This section details how CNL will continue to engage the public, including local elected officials, industry and NGOs, through a variety of mechanisms – demonstrating transparency and access to information. CNL will continue to promote all milestones and significant events through public information sessions, site tours, meetings of the ESC and engagement with Indigenous Nations. CNL will continue to use social media to engage the public featuring key milestones and Project information.

A new engagement mechanism to note, is that in 2021, CNL established the CAP. The CAP will have a direct role in affecting how CNL engages with our communities and will provide CNL and stakeholders key knowledge on how a diverse cross-section of the public feels about CNL's activities and projects. The CAP is not directly related to the NPD Closure Project but topics the CAP will be engaged in will be related to and connected to NPD. The CAP has a focus on exchanging information and ideas related to CNL's activities with the wider community and bringing new, diverse and representative voices into the dialogue between CNL and the local public.

Note that throughout this section dates and other details are provided where possible. For engagements planned for the near-term, details and dates are present, but subject to change. For engagements planned to occur farther into the future, specific dates and details of the activity are generally unavailable, to allow for flexibility in accommodation of the EA process.

CNL expects to submit the final EIS package to the CNSC in spring 2024. Activities in future quarters, leading up to that submission, will support work with Indigenous communities and public stakeholders to ensure interests and concerns are reflected in the final EIS and addressed by the project.

CNL expects continued interest in the revised EIS from those who made comments and / or have been following the progress of the environmental assessment for the project. CNL will continue to meet with stakeholders and Indigenous Nations, communities and organizations. The focus will be on discussing how feedback has been incorporated into the EIS and how comments have been dispositioned. CNL will maintain regular communications through correspondence (including email blasts), meetings, information sessions, webpage content, newsletters and webinars to ensure stakeholders and Indigenous Nations, communities and organizations are kept apprised of the environmental assessment progress.

Fiscal Year 2023/2024 – Fourth Quarter (Q4)

Regular engagement activities such as public webinars and ad-hoc site visits will continue.

Key information updates will be shared with stakeholders through web content updates, social media and emails to stakeholders. CNL will also continue to share information in more interactive ways, such as video and infographics.

Engagements in Q4 include:

1. ESC Meeting: the NPD Closure Project will provide an update.
2. Public webinars.
3. Community Advisory Panel 3-4 update.
4. Newsletter updates (Contact and Voyageur).

Fiscal Year 2024/2025 – First Quarter (Q1)

1. ESC Meeting: the NPD Closure Project will provide an update.
2. Community Advisory Panel 4-1 update.
3. Newsletter update (Contact and Voyageur).
4. Community and Municipality updates.
5. Public webinars.
6. Petawawa Showcase.
7. Chimney Swift Count Night.
8. Intervenors Meetings.

Fiscal Year 2024/2025 – Second Quarter (Q2)

1. Community Advisory Panel 4-2 update.
2. Public webinars.

Fiscal Year 2024/2025 – Third Quarter (Q3)

1. ESC Meeting: the NPD Closure Project will provide an update.
2. Community Advisory Panel 4-3 update.
3. Public webinars.
4. Newsletter update (Contact and Voyageur).

Hearing Preparation

In preparation of the two-part CNSC Commission Hearing that is anticipated to take place sometime in 2025, CNL will continue to engage the public through a variety of mechanisms demonstrating transparency in the process and access to information. CNL will continue to be proactive with the media and engaged stakeholders to communicate the benefits of the project and to correct errors. CNL will engage with stakeholders through public information sessions, site tours, advertising meetings of the Environmental Stewardship Council and engagement with Indigenous Nations, communities and organizations. CNL will continue to use social media to promote key project milestones and project information. Information shared leading up to the two-part Hearing will focus on how individuals and groups can participate and how they can learn more about the project.

Engagement activities leading up to the hearing will highlight particular aspects of importance and include:

1. ESC Meetings. At these meetings the NPD Closure Project will provide an update.
2. Breakfast briefings in Deep River for interested members of the public.
3. Community Information Sessions in Ontario and Québec.
4. Open Houses.
5. Facility Tours.
6. Public Webinars.
7. Renfrew County Municipal Council meetings – project updates.
8. MRC Pontiac Municipal Councils – project updates.
9. Stakeholder updates via email, newsletters and advertising.
10. Updated online content.

Project Execution Phase

Pending regulatory approval, the NPD Closure Project's execution phase could be underway in 2026. During this period, CNL and the project will continue to update stakeholders and encourage feedback, for instance on noise or other nuisance impacts that may occur, to enable mitigation while the project progresses. CNL and the project will also continue to involve stakeholders in monitoring plans and regularly update the community on project developments.

The regular engagements that support the stakeholder relationships that CNL has worked to build with respect to the NPD Closure Project will continue. For instance, updates to the ESC, meetings with interest groups and local elected officials, as well as stakeholder emails and communicating on social media will be a key aspect to ongoing engagement.

6. Conclusions

Methods employed to date have helped to inform and educate stakeholder and have enabled the public to provide valuable feedback into the project. CNL will continue stakeholder engagement efforts to increase awareness and understanding of the project.

CNL makes it a priority to build public awareness, understanding and a supportive appreciation of the laboratories value and relevance to Canadians. CNL works to ensure that the general public, Indigenous Nations, communities and organizations, news media, and other stakeholders are informed about the ongoing activities at all CNL sites. While there is a stigma / fear of nuclear present in the general public, CNL continues to develop relationships and programs, as a part of the Public Information Program, to educate different demographics of the population about the perceived risk vs the actual risk of nuclear.

CNL has proactively addressed the key issues raised by stakeholders, in many cases resolving those concerns. Follow-up monitoring will be used to verify predictions made in the final EIS, which will be communicated through CNL's Public Information Program. CNL will continue with these efforts to inform the public on the NPD Closure Project.

Continuing to provide information as it becomes available will encourage transparency, and further feedback, which can assist CNL in understanding and incorporating stakeholder perspectives into project planning, future communications and the environmental assessment process.

Appendix A Meeting Agenda Example

Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens

UNRESTRICTED

Chalk River Laboratories (CRL) Site Visit: Renfrew & Pontiac Counties Elected Officials Information Day

Date: Friday, February 15, 2019

Time	Details	Lead
0930 hrs.	Arrive at Chalk River Laboratories Outer Gate and proceed to the Brockhouse Building (Building 700) for registration	Met by CNL escorts • Nicole LeBlanc • Lauren Kinghorn
0945 – 1000 hrs.	CRL Cafeteria: • Welcome, introductions and safety brief • President & CEO, AECL - Welcome	• Patrick Quinn • Richard Sexton
1000 – 1015 hrs.	CNL Business Update	• Mark Lesinski
1015 – 1030 hrs.	CNL Supply Chain	• Chad Charbonneau
1030 – 1200 hrs.	Site Walking Tour Site Revitalization/Capital Projects	• Steven Innes
1200 – 1230 hrs.	Lunch – Video presentations	
1230 – 1315 hrs.	Near Surface Disposal Facility (NSDF) Update Nuclear Power Demonstration (NPD) Update	• Meggan Vickerd • Kristan Schruder
1315 – 1400 hrs.	Alpha Therapy Small Modular Reactors (SMR) Introduction	• Joanne Ball • Gina Strati
1400 – 1500 hrs.	CRL Site Walking Tour	• Philip Kompass
1500 hrs.	**Depart site**	

Reminders:

- Photo taking is restricted.
- Chalk River Laboratories is a non-smoking site. Please smoke only in designated areas.
- Advise of severe allergies, pregnancy or medical conditions / devices.
- Note: There are food and drink restrictions in certain areas of the Laboratories. Please inquire with your escort.
- We encourage visitors to ask questions about CNL and our operations.

Visitors:

City of Arnprior
Mayor Walter Stack
Councillor Ted Strike
City of Pembroke
Mayor Mike LeMay
L'Isle-aux-Allumettes
Mayor Winston Sunstrum
Municipality of Alleyn & Cawood
Mayor Carl Mayer
Director General Isabelle Cardinal
Melinda Lafleur
Municipality of Clarendon
Mayor John Armstrong
Municipality of Mansfield-et-Pontefract
Director General Eric Rochon
Councillor Claudette Beland
Councillor Sandra Armstrong
Municipality of Sheenboro
Councillor Lorna Brennan Agnesi
Vince Agnesi
Town of Deep River
Mayor Sue D'Eon
Councillor Kathy Hughes
Town of Laurentian Hills
Councillor Brenda Blimkie
Councillor John Hoyle
Councillor Bruce Boucher
Deputy Mayor Anne Giardini
Mayor Jed Reinwald
Township of Horton
Councillor Tom Webster
Town of Petawawa
Mayor Bob Sweet
Councillor Theresa Sabourin
CAO Dan Scissons
Township of Killaloe, Hagarty and Richards
Mayor Janice Visneskie-Moore
Township of Laurentian Valley
Councillor Chris Pleau
Township of Madawaska Valley
Mayor Kim Love

Visitors continued:

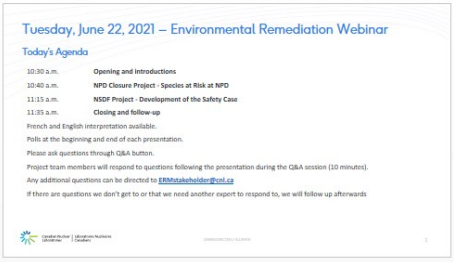
Township of North Algona Wilberforce
Mayor James Brose
Whitewater Region
Councillor Chris Olmstead
Reeve Cathy Augier
County of Renfrew
Director of Development & Property Craig Kelley
Deputy Clerk Rosalyn Gruntz
CAO Paul Moreau
Director of Finance Jeffrey Foss
MRC Pontiac
Warden Jane Toller

CNL Participants:
President & CEO, CNL, Mark Lesinski
President & CEO, AECL, Richard Sexton
Director, Corporate Communications, Patrick Quinn
Director, CNL Supply Chain, Chad Charbonneau
Manager, Lab Renewal Projects, Steven Innes
Director, NSDF, Meggan Vickerd
General Manager, NPD Closure Project, Kristan Schruder
Director, Environmental Radiation & Chemical Sciences, Joanne Ball
Director, Energy Program, Gina Strati
Section Head, Corporate Communications, Philip Kompass
Communications Officer, Corporate Communications, Nicole LeBlanc
Public Affairs Officer, Corporate Communications, Lauren Kinghorn
Vice President, Corporate Affairs, Lou Riccoboni
Vice President, Capital Projects, Ted Preisig
Vice President, Operations, Phillip Boyle
Vice President, Environmental Remediation Management, Michael Gull

Appendix B NPD presentation example

A presentation slide from the 2021 June 22 webinar on Species at Risk.

A complete presentation from the 2021 June 22 webinar on Species at Risk.



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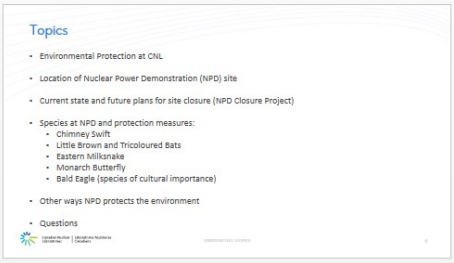

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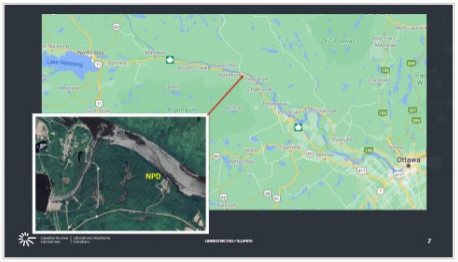

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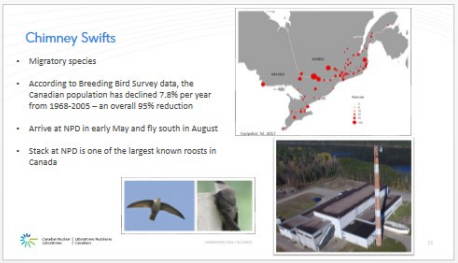

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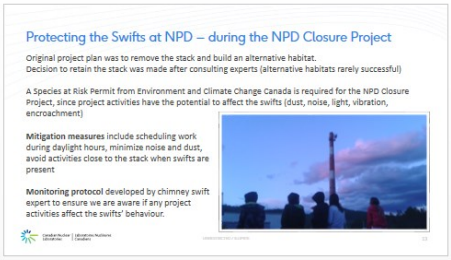

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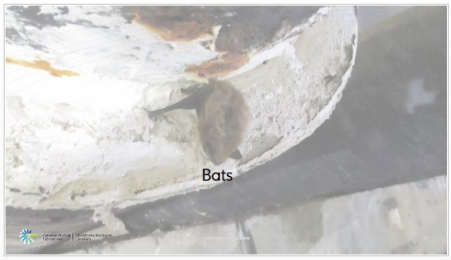

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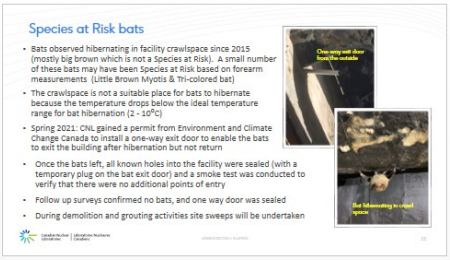

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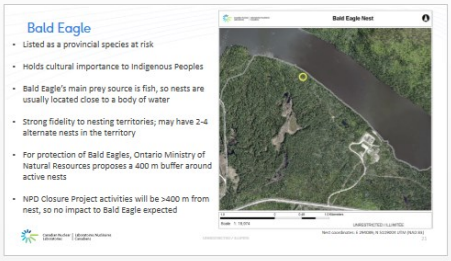

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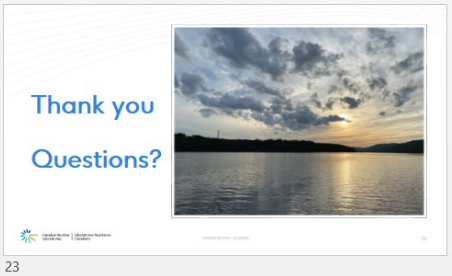

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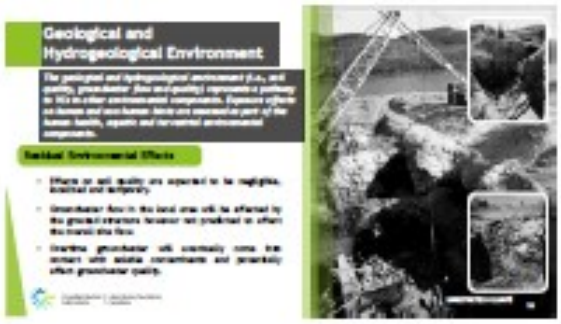
Atmospheric Environment


Ambient Radioactivity


Geological and
Hydrogeological Environment


Surface Water Environment


Aquatic Environment


Terrestrial Environment


Human Health
Residual Environmental Effects


Aboriginal Land and Resource Use
Residual Environmental Effects


Socio-Economic Environment
Residual Environmental Effects


Mitigation Measures
Proposed Measures


Effects of the Environment on the Project


Follow-up Monitoring Program


Building Confidence
Natural Analogues


Environmental Impact Statement
Conclusion


Learn more and get involved
Let us know what you think!

Appendix C Environmental Stewardship Council October 2015 Presentation

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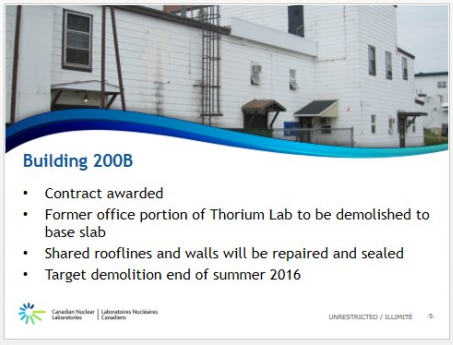

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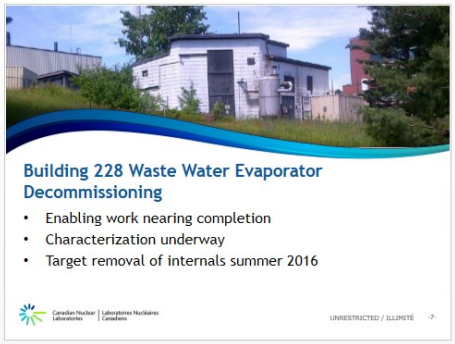

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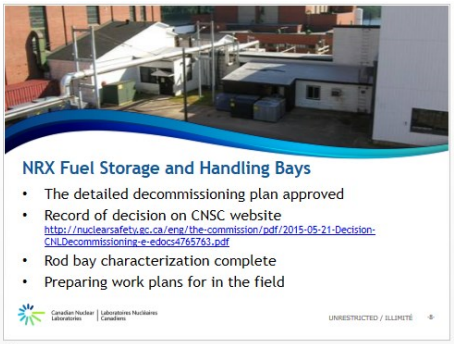

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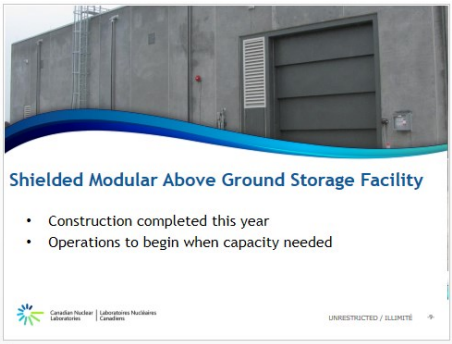

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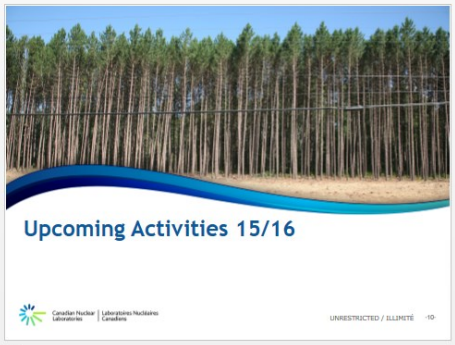

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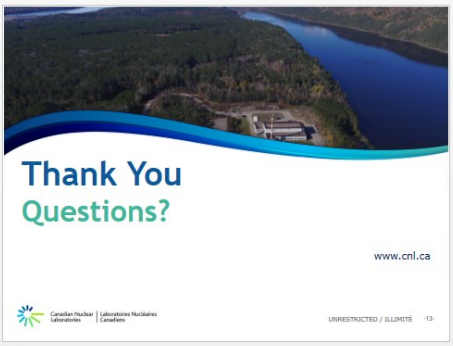
Thank You
Questions?
www.cnl.ca
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UNRESTRICTED / ILLIMITÉ
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Appendix D Employee Engagement Examples

MyCNL TV – 2021 August

Take 10 Promotion on myCNL – 2017 October 25

Home > Environmental Remediation Management > "Take 10" - Update on the NPD Closure Project

VIEW PUBLISHED | REPEATS

Wednesday, August 25, 2021 - 10:00am

Event Site:	Video Link:
MyCNL TV	Click here to join

Join us for a "Take 10", a new series of short and engaging presentations from CNL staff from across the missions. Each session will run about 10 - 15 minutes with time for Q&A afterwards.

This week Katie Shorter is here to share an update on the NPD Closure Project, the reactor decommissioning plan for Canada's first nuclear power reactor.

The environmental assessment for the project has been ongoing since 2016 and this presentation will bring you up to date on what the team has been up to over the past year, what's new and what's next.

Consider this your virtual coffee break to "sit down" with a few of your colleagues to chat about one of our key reactor decommissioning projects.

++ Hot Tip - You can add this event to your Outlook calendar. Click the navy blue "Add to Calendar" link on the right side of the screen. ++

If you are interested in hosting your own 'Take 10' session, please contact Philip Kompass, and we'll be happy to get you on the schedule.

LIKE 6 LIKES 0 COMMENTS

Appendix E Community Events Examples

NPD Open House – 2018 August

School House Museum Fun Day – 2017 July

Canadian Nuclear Laboratories is at School House Museum.
Published by Margot Elaine [?] · July 30, 2017 · Deep River, ON ·

From fiddling to cow patty bingo, there's lots to see & hear & do at the School House Museum's annual fun day! Drop by the NPD display to say hi! 😀👋

Boost Post

3

Appendix F NPD Virtual Open house

2022 October- 2022 November Virtual Visitors Centre

Key areas of interest and concern

Currently, this project is undergoing a federal environmental assessment. Over the course of the assessment and through many engagements and discussions, CNL has learned the key areas of interest and concern from Indigenous Peoples, the public and federal and provincial agencies. They include:

Stages of Decommissioning

What Options Did We Consider?

Safety Features

Why Grout?

What If? Planning For The Worst

Proximity to the Ottawa River

International Guidance and Standards

The Waste

Learning from Indigenous Perspectives

Canadian Nuclear Laboratories

CNL is Canada's premier nuclear science and technology organization, and a world leader in developing nuclear technology for peaceful and innovative applications.

As a result of over 60 years of nuclear science and technology, CNL (as mandated by Atomic Energy of Canada Limited (AECL) through the Government of Canada) is undergoing a clean-up mission to ensure the safe and effective management of its nuclear liabilities. As part of this important work, we are proposing to complete the closure of the Nuclear Power Demonstration (NPD) facility, ensuring the long-term safety of people and the environment.

We would like to acknowledge

The NPD site is located on the unceded and unsurrendered territory of the Algonquin Anishnaabe people. As an organization, CNL recognizes and appreciates their connection to this place. CNL also recognizes the contributions that First Nations, Métis, Inuit and other Indigenous Peoples have made, both in shaping and strengthening this community in particular, and this province and country as a whole.

Connect with us!

CNL is committed to building meaningful, long-term, relationships with Indigenous Peoples, local communities and stakeholders. We recognize that only with the support of our communities will we be able to deliver the nuclear science and technology services to solve some of the biggest challenges facing our world today, while contributing to a strong economy, a clean environment and a healthy society.

As we continue to advance the NPD Closure Project we will continue to incorporate feedback from First Nations, Métis, and the public.

Get in touch now

Appendix G NPD Webpages

NPD Landing Webpage

Nuclear Power Demonstration Closure Project

The responsible solution to decommission Canada's first power reactor

We are proposing to complete the closure of the Nuclear Power Demonstration (NPD) facility, ensuring the long-term safety of humans and the environment. The proposed approach is to demolish the above grade structure and place the debris into open areas in the below grade structure, then to fill the entire facility with grout to convert it into a permanent disposal facility. This technique is known as in-situ disposal as the waste remains in place, avoiding handling, shipping, and building another storage facility elsewhere. In situ disposal completes the decommissioning and contains and isolates the remaining empty systems and components below grade in bedrock. It is a safe technique and ensures people and the environment remain protected.

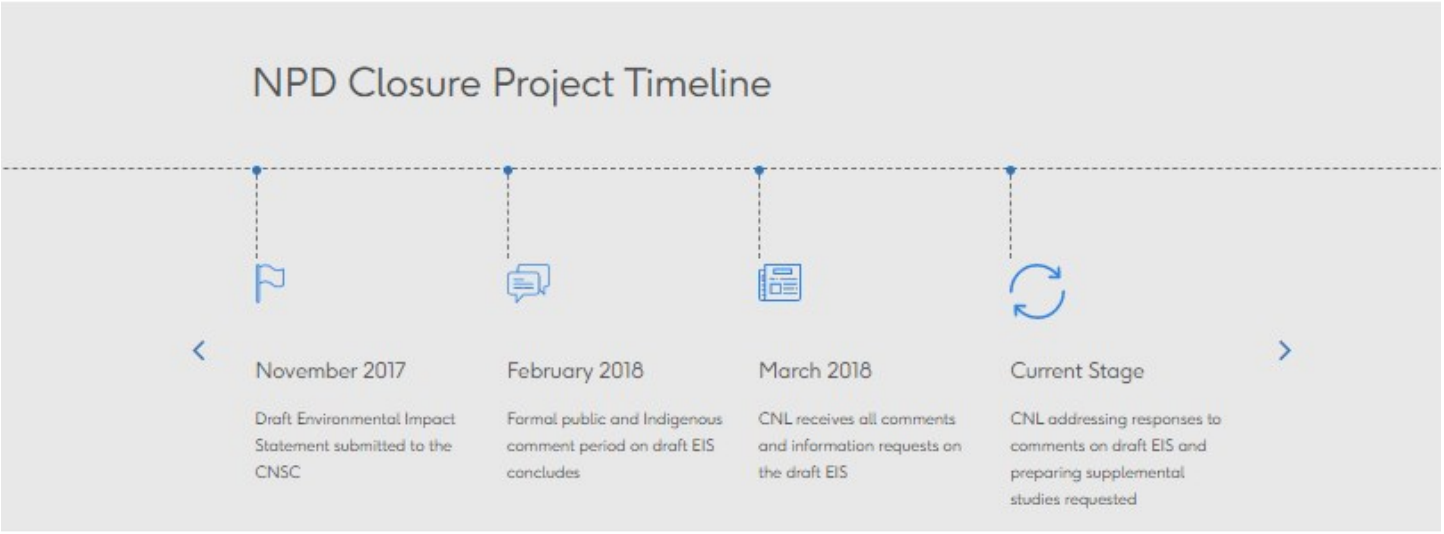
Currently, this project is in the middle of a federal environmental assessment.

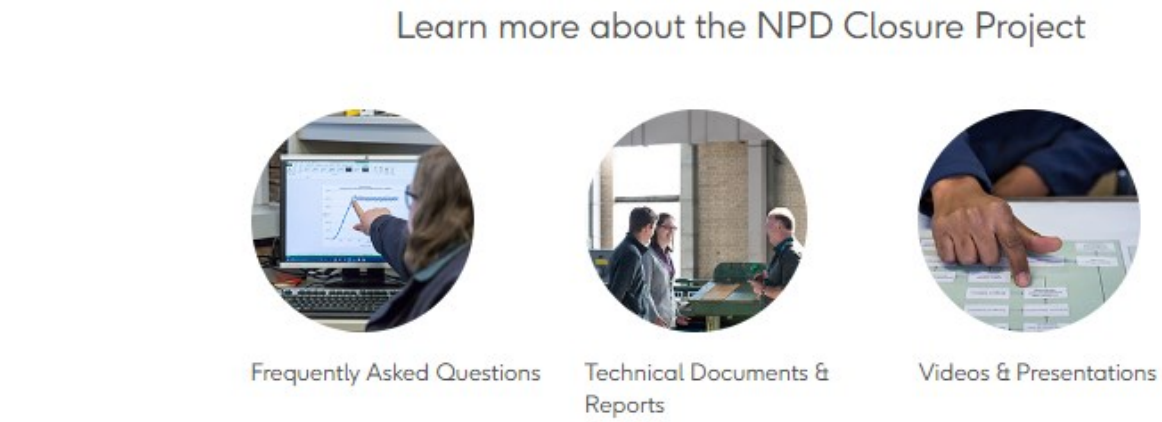
A proud legacy

The Nuclear Power Demonstration, better known as NPD, was the first Canadian nuclear power reactor and the prototype for the CANDU® reactor design. NPD made history in 1962 when it generated electricity from nuclear power for the first time in Canada. It was a small single unit 20 MWe pressurized heavy water reactor located in Rolphton, Ontario. The NPD reactor was the prototype and proving ground for research and development that led to commercial application of the CANDU® system for generating electric power.

For 25 years NPD produced sustainable, clean energy, and operated as a training centre for nuclear operators and engineers from Canada and around the world. Operations at NPD ended in 1987, after which the first stages of decommissioning were completed, including the removal of all nuclear fuel from the site and the draining of the systems. The site has been in a safe shutdown state over the last 30 years.

NPD 2022 Project Update Webpage





What we've heard from our stakeholders

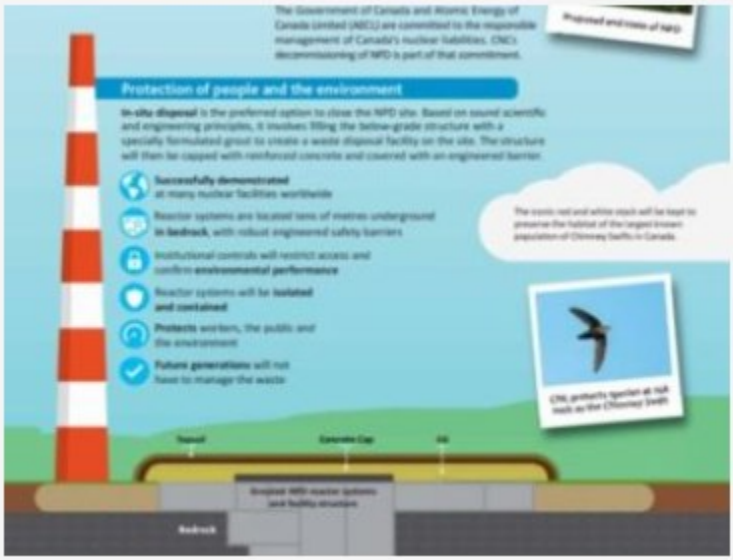
Over the last few years, we've learned from the public and Indigenous communities. At meetings, public information sessions and community events, on the telephone and by email, we've heard a variety of perspectives on the closure of the first power reactor in Canada.

Knowing what aspects of the environment that are valued by the public and Indigenous Peoples has helped us identify what to take into account when planning the project and ensures appropriate mitigations are in place to protect our environment.

The public and Indigenous Peoples also had the opportunity to submit formal comments on the 2017 Environmental Impact Statement (EIS) for the NPD Closure Project to the Canadian Nuclear Safety Commission (CNSC). These comments are posted to the web page for the NPD Closure Project's Environmental Assessment (reference number: 80121).

Based on feedback from stakeholders and Indigenous communities, including previous engagements and these submitted comments, eight main themes have been identified and incorporated into our plans for the project:

1. Alternative Means & Approaches +
2. Grout and Concrete Degradation +
3. Impacts from Earthquakes +
4. Proximity to the Ottawa River +
5. IAEA Guidance for In-situ Decommissioning +
6. Radiologic Inventory +
7. Design and Engineering Details +
8. Indigenous Engagement +



NPD Infographics & Posterboards

Download the package of posterboards, advertisements and infographics regarding the NPD Closure Project.

Click to download (.pdf)

Chimney Swift Population at NPD

Do you have questions about CNL's environmental projects? Let us know what you are thinking by completing our feedback form. If you request a response, one of our team members will be in touch.

First Name *

Last Name *

Email *

Home address

Phone Number

I have a a question about the following: *

-- Please select an item from the dropdown --

Would you like to receive a response from a team member about your questions, concerns or issues? *

Yes
No

Would you like to be added to the mailing list for information on future public open houses? *

Yes
No

Comments / Questions *

SUBMIT

Appendix H Infographics

NPD Infographic- Long-term Safety

Six Key Safety Features

1. The majority of the radioactivity is present within the reactor components. The reactor components includes steel and zircaloy, which will corrode very slowly.
2. The reactor, which is already tens of metres below ground in the bedrock, is protected by the thick concrete vault walls, as well as the facility's structure walls.
3. The backfilled grouted vault will constrain the rates of groundwater flow and maintain an alkaline environment, which slows corrosion of radioactive components.
4. The isolation of radionuclides will be further achieved by filling much of NPD with grout.
5. A concrete cap will be constructed over the grouted facility above the reactor vault to provide a redundant layer of protection against inadvertent human intrusion.
6. An engineered cover will be placed over the entire facility to divert rain and melt water from the facility.

Natural Hazards

Through the Environmental Assessment, the project has examined how extreme weather, natural disruptive scenarios, like an earthquake, and long-term processes like climate change will impact the decommissioned NPD facility. Results have indicated that in all of these scenarios, human and environmental exposures to contaminants will remain below current regulatory limits. That is to say, people and the environment remain protected in any of the following "worst case" scenarios:

- Glaciation
- Tornado
- Flooding
- Earthquake
- Forest Fire
- Changes to the Ottawa River

Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens

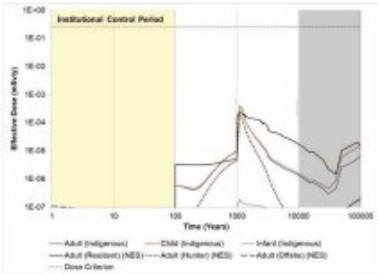
Taking Care of Future Generations

Human health is of particular interest to members of the public and is evaluated for all stages of the proposed project. The graphs below provide the predicted results of radiation doses that could be received by the public during future unrestricted uses of the site.

The Post-closure Safety Assessment considers three potential exposed groups:

- Site resident family: A highly conservative model that maximizes potential exposures. This is a small household (comprising two adults, a child and an infant) living on top of the disposal facility with a self-sufficient lifestyle. This assumes the use of potentially contaminated ground water for domestic and agricultural purposes.
- A hunting/recreational group, represented by a small number of adults and children making hunting and/or recreational use of the river and the area surrounding the NPD. This group gather and eat wild foods, is similar to the types of land use that might be exhibited by Indigenous people.
- An offsite group, represented by two households (two adults and two children) that live by the Ottawa River at Deep River and Ottawa/Gatineau. These households are assumed to use river water from the Ottawa River for domestic use and as drinking water, and to use the Ottawa River for recreational swimming.

The Post-closure Safety Assessment also assesses dose to an Indigenous receptor group. This is a self-sufficient receptor group that is intended to represent traditional Indigenous lifestyles.
As you can see, the highest radiation dose predicted to be received is more than 625 times lower than the regulatory limit. This is less than the radiation dose you would receive from a single dental x-ray, meaning the in-situ disposal approach effectively protects future generations.



NPD Infographic – Protecting the Ottawa River

Protecting the Ottawa River
NPD Closure Project

Continued protection of the Ottawa River is a key focus of CNL's work. Members of the local public have shared with us the ecological importance of the Ottawa River and its use as a source of drinking water. For Indigenous communities, the Ottawa River, known as the Kichi-Sibi, is a revered waterway with immeasurable value.

Members of the NPD Closure Project team live with their families in communities along the Ottawa River. Several members of the team grew up in the area. Caring for the river and ensuring it remains a healthy, safe place where we can continue to live, work and play is essential to us.

Why we are confident in our protection of the Ottawa River

Scientific modelling and analysis

CNL has updated the Post-closure Safety Assessment, which evaluates the potential long-term effects of the project on the public and environment. This update includes the final grout formula, results from the geological site characterization and the new, more detailed earthquake assessment.

In the last two years, to further demonstrate CNL's alignment with the public and Indigenous communities' care for the Ottawa River, CNL has undertaken additional detailed modeling to determine how potential releases from the grouted NPD facility could affect the river after closure is complete. This new analysis supports CNL's conclusion that the Ottawa River will remain protected considering all potential releases after closure.

Results of our modelling and analysis

The only non-radioactive element that is present in significant quantities in the NPD facility is lead, and the behaviour of lead over time was modelled. The peak concentration of lead in surface water is estimated to be very small indeed at $7x10^{-13}$ mg/L (another way of saying this is 0.07 parts per trillion), and is well under the maximum permissible concentrations in the Provincial Water Quality Objectives (PWQO), adopted from Ministry of the Environment (Ontario), which is 0.001 mg/L. The resulting concentration is approximately 100 million times lower than this guideline.
The main radioactive element in the facility is tritium. The peak level of tritium in the river water resulting from the closed NPD facility is projected to be 0.04 Bq/L. This is 100,000 times lower than Health Canada's limit of 7000 Bq/L of tritium in drinking water.

Concentrations of the Five Dominant Radionuclides in River Water

Time (y)	Radionuclides (Bq l^{-1})					
	H3	C14	Ca41	Ni59	Cl36	Total
100	7E-05	9E-08	2E-10	<1E-10	2E-09	7E-05
300	7E-10	1E-07	6E-10	<1E-10	2E-09	1E-07
1000	<1E-10	9E-08	5E-09	<1E-10	3E-09	1E-07
3000	<1E-10	3E-06	8E-07	<1E-10	8E-07	4E-06
10000	<1E-10	6E-07	1E-06	1E-09	5E-07	2E-06
30000	<1E-10	7E-08	7E-08	2E-07	2E-07	6E-07
50000	<1E-10	8E-09	8E-09	1E-06	2E-07	1E-06
Maximum	4E-02	5E-06	2E-06	4E-06	9E-07	4E-02
Time of Max.	1*	1300	5500	90000	3750	1*

Monitoring

Finally, the project team has developed draft follow-up monitoring plans which describe how all aspects of the environment including the Ottawa River will be monitored to ensure that the impact from the NPD Closure Project is minimal. We have received comments on these plans from the public and Indigenous communities and will continue to seek and listen to feedback to ensure that the follow-up monitoring program for the NPD site is optimal.

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NPD Infographic – What We've Heard

What We've Heard - 1
NPD Closure Project

Over the last few years, we've learned from the public and Indigenous communities. At meetings, public information sessions and community events, on the telephone and by email, we've heard a variety of perspectives on the closure of the first power reactor in Canada.

Knowing what aspects of the environment that are valued by the public and Indigenous Peoples has helped us identify what to take into account when planning the project and ensures appropriate mitigations are in place to protect our environment.

The public and Indigenous Peoples also had the opportunity to submit formal comments on the 2017 Environmental Impact Statement (EIS) for the NPD Closure Project to the Canadian Nuclear Safety Commission (CNSC). These comments are posted to the web page for the NPD Closure Project's Environmental Assessment (reference number: 80121). Based on feedback from stakeholders and Indigenous communities, including previous engagements and these submitted comments, eight main themes have been identified and incorporated into our plans for the project.

1. Alternative Means & Approaches

In selecting disposal for the NPD reactor, CNL has considered several alternatives, including continued storage with surveillance, partial dismantling and removal, and full dismantling and removal of the reactor and components. Through its various engagements, CNL was asked to provide more detail in the EIS on how it chose the in-situ disposal method for the NPD Closure Project. CNL has added quantitative assessments of the options considered to the EIS, and also updated the scenarios to include a new disposal facility becoming available during the institutional control period. Overall, the in-situ disposal method is still considered the safest and preferred option.

2. Grout and Concrete Degradation

The NPD building structure will be filled with custom grout formulations to help contain and isolate contaminants, ensure stability, and reduce corrosion rates of the reactor components. CNL started with a specially-formulated grout used in other in-situ disposal projects and adapted it to the unique requirements of the NPD facility. Extensive research was conducted on the use of grout in similar circumstances. We have also conducted a test program using locally-sourced materials to verify that the grout formula requirements can be met. The test included fresh properties, such as determining the ability of the grout to flow around piping and tanks, and cured properties, such as strength and hydraulic conductivity. Combined with the existing robust construction of the underground facility, the proposed grouting process will enhance protection of people and the environment. CNL has added details on grout and grout formulations to the revised draft EIS that has recently been submitted to the CNSC.

Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens

3. Impacts from Earthquakes

CNL has conducted additional detailed quantitative analysis to assess how a catastrophic earthquake – one that might occur once every ten thousand years – would affect the facility. Results show that cracks would develop mainly in the areas of the NPD facility which are above the bedrock level. The grouted reactor vault would not be affected as it is well below this depth, with the grout providing increased protection against the stresses of the earthquake. Modelling updates show that any impacts to the public or environment from such an earthquake would be well below the regulatory limits.

CNL also conducted additional geological site characterization work to strengthen our understanding of the geology around the NPD site. This characterization work strengthened our confidence in bedrock elevations and characteristics, including quality and rates of water flow. It also confirmed the soundness of the bedrock at the site. That is, nothing was encountered that would preclude this location as a disposal site. This information was important to confirm assumptions made in seismic modeling and to demonstrate the suitability of the site for long-term stability.

4. Proximity to the Ottawa River

Ensuring the continued protection of the Ottawa River is a key focus of CNL's work and is reflected in the EIS. CNL has undertaken additional detailed modeling of potential releases from the facility to assess how they could affect the river. This new analysis supports the conclusion of the EIS that the Ottawa River will continue to be protected. CNL has also updated the Post Closure Safety Assessment, which evaluates the potential long-term effects of the project on the public and environment. The update included the final grout design, results from the geological site characterization and the new, more detailed earthquake assessment. Finally, the project team has developed draft follow-up monitoring plans, which are available for review by interested parties. CNL held a workshop to discuss the draft effluent monitoring plans in 2019 that included members of the public. Additional workshops will be held for the environmental and groundwater plans in the near future and CNL looks forward to input from the public and Indigenous communities.

What We've Heard - 2
NPD Closure Project

Over the last few years, we've learned from the public and Indigenous communities. At meetings, public information sessions and community events, on the telephone and by email, we've heard a variety of perspectives on the closure of the first power reactor in Canada.

Knowing what aspects of the environment that are valued by the public and Indigenous Peoples has helped us identify what to take into account when planning the project and ensures appropriate mitigations are in place to protect our environment.

The public and Indigenous Peoples also had the opportunity to submit formal comments on the 2017 Environmental Impact Statement (EIS) for the NPD Closure Project to the Canadian Nuclear Safety Commission (CNSC). These comments are posted to the web page for the NPD Closure Project's Environmental Assessment (reference number: 80121). Based on feedback from stakeholders and Indigenous communities, including previous engagements and these submitted comments, eight main themes have been identified and incorporated into our plans for the project.

5. IAEA Guidance on the In-situ Decommissioning

CNL received questions about the International Atomic Energy Agency's (IAEA) guidance in their safety standard for decommissioning which states that in-situ decommissioning is not a suitable option for all nuclear facilities and should be considered only under certain conditions. CNL agrees with this assessment and considers that NPD has features which make it suitable for long-term disposal such as its location 80 feet below grade into bedrock and the thick concrete basement structure. The NPDDF project is creating a disposal facility by decommissioning the existing reactor and then utilising the remaining below grade structure to create a new disposal facility. In this case decommissioning of the NPD reactor ends following partial removal of the structure, and does not involve entombment of the facility. The decommissioned waste is then placed into the disposal facility which when complete undergoes closure. The strategy used is therefore not entombment but partial removal, which is acceptable according to GSR-6, (IAEA 2014).

CNL is considering IAEA guidance in their safety standards for the closure of the facility, and more importantly is also considering IAEA guidance in their safety standards for waste disposal, since the facility – in its end state – would be classified as a disposal site.

It is important to note that CNL is licensed by and is accountable to the Canadian nuclear regulator, the Canadian Nuclear Safety Commission (CNSC). CNL is following Canadian standards and regulatory requirements for decommissioning the NPD facility and Canadian regulations for the creation of a disposal facility.

6. Radiologic Inventory

CNL received several requests for information on the exact radiological content of the NPD facility that will be on-site for disposal. CNL has updated the Environmental Impact Statement to include recently completed neutron flux modeling using modern 3-dimensional codes and libraries, to improve the certainty of the radiologic inventory of the reactor components. CNL has also completed a full building characterization, including all remaining nuclear systems, to verify the total radiologic inventory. Since the reactor contains most of the remaining radiologic inventory (the fuel was removed in 1988), the completion of these additional analyses, incorporating field sampling measurements, allows CNL to better conservatively define the total radiologic inventory proposed for disposal.

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7. Design and Engineering Details

At the time of the submission of the 2017 draft Environmental Impact Statement, CNL had completed only a preliminary design of the disposal facility. Now that CNL has a more detailed design of the disposal facility, including the engineered barrier and the finalized grout formulation, an update has been incorporated in the revised draft Environmental Impact Statement (EIS), submitted to the CNSC in 2020.

8. Indigenous Engagement

CNL, as a steward of the NPD property on behalf of Atomic Energy of Canada Limited (AECL), is committed to meaningful engagement with local Indigenous communities and is working to establish long term agreements with them. These interactions are on-going and allow CNL to learn how the Project could impact the rights and interests of Indigenous groups, and to identify actions to be taken. At the same time, Canada's nuclear regulator, the Canadian Nuclear Safety Commission, is also undertaking consultation activities with Indigenous communities, to ensure the Crown's duty to consult is upheld.

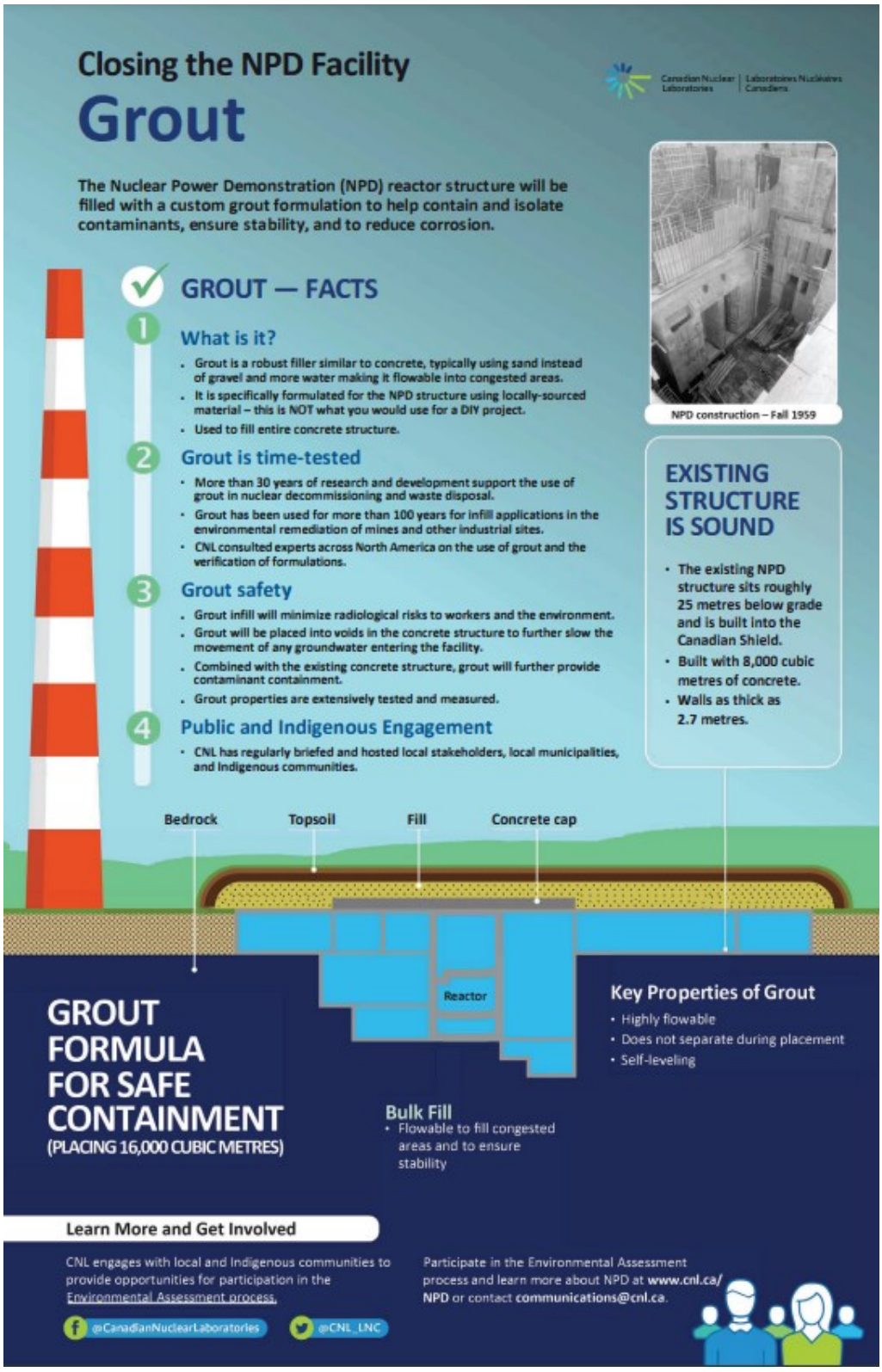
What is the duty to consult?

The Crown's unique relationship with Indigenous Peoples gives rise to the duty to consult, and where appropriate accommodate Indigenous peoples when the Crown contemplates conduct that might adversely impact potential or established Indigenous and/or treaty rights.

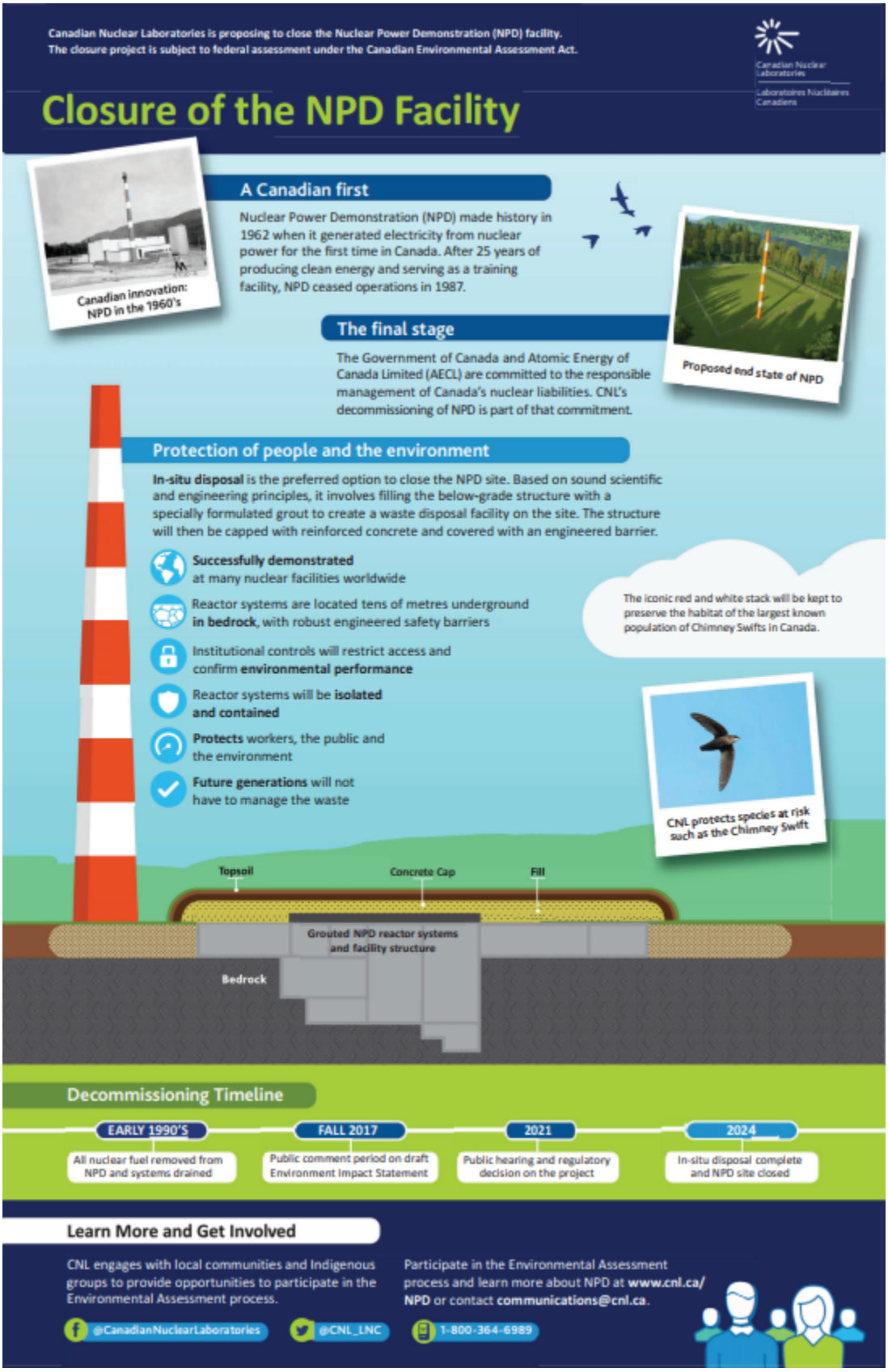
As an agent of the Crown, the CNSC has responsibility for fulfilling its legal duty to consult, and where appropriate accommodate Indigenous Peoples when its decisions may have an adverse impact on potential or established Indigenous and/or treaty rights.

As proponent, CNL engages with Indigenous communities and seeks to build long-term and meaningful relationships with those communities that have traditional territory and/or modern interests where we operate.

NPD Infographic – Grout



NPD Infographic – Closure of the NPD Facility



Appendix I Contact

PROJECT UPDATES

NSDF & NPD planning continues

CNL is making steady progress on two proposed projects that are essential to AECL's mandate to fulfill Canada's radioactive waste and decommissioning responsibilities.

The Near Surface Disposal Facility (NSDF) is CNL's proposed solution to deal with low-level waste such as the debris from demolition activities associated with the revitalization of the Chalk River site, soil from environmental remediation and material from our ongoing commitments to health care institutions and universities.

The draft Environmental Impact Statement (EIS) for the NSDF generated 195 comments from federal organizations and 647 requests for information from other interested parties, including Indigenous groups, non-governmental organizations and the public. Now that all requests have been answered, the Canadian Nuclear Safety Commission (CNSC) will review the responses, perhaps request further clarification and then inform the public and schedule public meetings for the proposed project.

This extended process is not unusual for a unique project like the NSDF and the project timeline has been adjusted accordingly. CNL expects to submit the final version of the EIS to the CNSC by the summer of 2019, at which time the public hearings can be scheduled for late 2019.

The second project is the Nuclear Power Demonstration (NPD) Reactor Closure Project, CNL's proposal for safely decommissioning the facility at Rolphton, to complete the closure of the site. The draft EIS for this project generated 343 requests for information from the public and Indigenous groups.

Again, CNL will devote significant time and energy to thoroughly respond to these requests, necessitating an adjustment in the project timeline. It is expected that CNL will submit the final EIS for the NPD Closure Project to the CNSC this winter, at which time the public hearing can be scheduled for later in 2019.

CNL IS LISTENING

Through the EIS process, CNL has received comments covering common areas of interest for both the NSDF and NPD projects. These include:

NSDF Project

- *How will waste be screened before placement?*
- *How robust is the waste water management system?*
- *Can the facility withstand extreme weather events?*
- *Will there be impacts to the Ottawa River?*

NPD Project

- *How does the project or in-situ decommissioning align with industry best practice?*
- *Will the grout degrade over time?*
- *What is the industry experience in using grout?*
- *Will there be impacts to the Ottawa River?*

For NSDF, CNL has made design improvements to its engineered containment mound and the waste water management system, among other refinements. For NPD, CNL is carrying out a number of supplemental and biodiversity studies, as well as verification activities.

Overall, CNL is carefully reviewing all of this information and in some cases, pursuing further studies where required, to ensure that both of these proposed projects are safe and will fully protect the local environments, including the Ottawa River, as designed.

The adjusted timelines and added inputs for both projects will allow CNL – with oversight from the CNSC – to ensure that we deliver the best possible solutions to protect the environment and people. We are committed to engaging with our communities, and encourage you to visit our websites and social media accounts for ongoing updates on the projects.

Environmental Stewardship Council visits Port Hope Area Initiative

Members of the Environmental Stewardship Council were given the opportunity to view near surface disposal-type facilities in southern Ontario when they toured the Port Hope Area Initiative in May. Members observed a facility under construction (the Port Hope Project), one that is operational and receiving low-level radioactive waste (the Port Granby Project in Clarington), and were shown the advanced technology waste water treatment plants at both projects. The council is comprised of representatives from CNL, various stakeholder groups and representatives from local communities. At the regular meetings, CNL introduces information about future and ongoing projects and invites open and candid discussion. These sessions provide a wide range of viewpoints that are taken into consideration when CNL is carrying out its missions.


AOÛT 2018
CONTACT
UNE PUBLICATION DES LNC
Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens
CHALK RIVER
CNL.CA
Programme de PRM des LNC
Favoriser un avenir énergétique propre
Photo fournie par Third Way (www.thirdway.org)

Mise au point sur les projets

La planification des projets de l'IGDPS et du NPD se poursuit!

Les LNC réalisent des progrès constants dans le cadre de deux projets essentiels au mandat d'Énergie Atomique du Canada Limitée (EACL), qui consiste à s'acquitter des responsabilités du Canada en matière de déchets radioactifs et de déclassement.

L'installation de gestion des déchets près de la surface (IGDPS) est la solution proposée par les LNC pour la gestion des déchets radioactifs de faible activité, comme les débris provenant des activités de démolition associées à la revitalisation du site de Chalk River, les sols provenant des travaux d'assainissement de l'environnement et le matériel découlant de nos engagements continus à l'égard des établissements de soins de santé et des universités.

L'ébauche de l'étude d'impact environnemental (EIE) de l'IGDPS a généré 195 commentaires d'organisations fédérales et 647 demandes de renseignements de la part d'autres parties intéressées, y compris de groupes autochtones, d'organisations non gouvernementales et de membres du public. Maintenant que toutes les demandes ont reçu une réponse, la Commission canadienne de sûreté nucléaire (CCSN) examinera les réponses, demandera peut-être des éclaircissements, informera le public et organisera des audiences publiques sur le projet proposé.

Ce long processus d'évaluation n'est pas inhabituel pour un projet unique comme celui de l'IGDPS; le calendrier du projet a donc été adapté en conséquence. Les LNC prévoient présenter la version finale de l'EIE à la CCSN d'ici l'été 2019, et les audiences publiques pourront alors être inscrites au calendrier pour la fin 2019.

Le deuxième projet est la fermeture du réacteur nucléaire de démonstration (NPD), la proposition des LNC pour le déclassement sécuritaire de l'installation et la fermeture complète du site de Rolphton. L'ébauche de l'EIE pour ce projet a généré 343 demandes de renseignements de la part de membres du public et de groupes autochtones.

Les LNC sont à l'écoute

Dans le cadre du processus de l'EIE, les LNC ont reçu des commentaires sur des sujets qui concernent tant le projet de l'IGDPS que celui du NPD. En voici des exemples :

Le projet de l'IGDPS

- *Quels sont les critères d'acceptation des déchets?*
- *Quelle est la robustesse du système de gestion des eaux usées?*
- *L'installation peut-elle résister à des phénomènes météorologiques extrêmes?*
- *Y aura-t-il des répercussions sur la rivière des Outaouais?*

Le projet de fermeture du NPD

- *Comment ce projet ou le déclassement sur place s'aligne-t-il sur les pratiques exemplaires de l'industrie?*
- *Le coulis se dégradera-t-il avec le temps?*
- *Quelle est l'expérience de l'industrie en ce qui a trait à l'utilisation de coulis?*
- *Y aura-t-il des répercussions sur la rivière des Outaouais?*

Pour l'IGDPS, les LNC ont entre autres apporté des améliorations à la conception du monticule de confinement et de l'usine de traitement des eaux usées. Pour le NPD, les LNC mènent un certain nombre d'études et d'études complémentaires, sur la biodiversité entre autres, ainsi que des activités de vérification.

Dans l'ensemble, les LNC examinent attentivement toute cette information et, dans certains cas, ils mèneront d'autres études au besoin pour s'assurer que les deux projets proposés sont sécuritaires et protégeront pleinement les environnements locaux, y compris la rivière des Outaouais.

Encore une fois, les LNC consacreront beaucoup de temps et d'énergie à répondre avec exactitude à ces demandes. Par conséquent, il faut rajuster le calendrier du projet. Les LNC prévoient soumettre la version finale de l'EIE du projet de fermeture du NPD à la Commission canadienne de sûreté nucléaire cet hiver, et les audiences publiques pourront alors être inscrites au calendrier pour plus tard en 2019.

Les échéanciers ajustés et l'information qui s'ajoute aux deux projets permettront aux LNC – avec l'encadrement de la CCSN – de veiller à ce que nous adoptions les meilleures solutions possibles pour protéger l'environnement et la population. Nous sommes résolus à interagir avec les collectivités qui nous entourent et vous encourageons à visiter nos sites Web et nos comptes sur les médias sociaux pour que vous puissiez vous tenir au courant de nos projets.

Le Conseil de gérance de l'environnement visite l'Initiative de la région de Port Hope

Les membres du Conseil de gérance de l'environnement ont eu l'occasion de voir des Installation de gestion des déchets près de la surface dans le cadre de leur visite de l'Initiative dans la région de Port Hope, dans le sud de l'Ontario. Les membres ont pu observer une installation en construction (projet de Port Hope), et une installation active et recevant des déchets radioactifs de faible activité (projet de Port Granby à Clarington). Aux deux sites de projet, on leur a montré des usines de traitements des eaux usées à la fine pointe de la technologie. Le conseil est composé de représentants des LNC, de divers groupes d'intervenants et de représentants des collectivités locales.

Lors des réunions ordinaires, les LNC présentent de l'information sur les projets et les réalisations en cours et invitent à une discussion ouverte et franche. Ces séances présentent une grande diversité de points de vue qui sont pris en compte dans l'exécution des missions des LNC.

Appendix J Stakeholder Email

Email to Stakeholder – 2022 January 01

Reply Reply All Forward IM

Thu 2022-01-20 3:29 PM

>ERM Stakeholder Relations

NPD Closure Project Environmental Assessment Update

To >ERM Stakeholder Relations

UNRESTRICTED / ILLIMITÉE

Good afternoon,

The Canadian Nuclear Safety Commission (CNSC) has requested that Canadian Nuclear Laboratories (CNL) provide further revisions to information provided in the revised draft Environmental Impact Statement (EIS) for the Nuclear Power Demonstration (NPD) Closure Project. CNL submitted the revised draft EIS to the CNSC in December 2021 for a completeness check, which is a part of the ongoing federal environmental assessment for this in-situ disposal project.

More information is available here.

We welcome questions and feedback on the Project.

ERM Stakeholder Relations

Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens

Appendix K Advertisement

Appendix L Public Service Announcement Script

Canadian Nuclear Laboratories will be holding Public Information Sessions to discuss updates on two important projects: the Near Surface Disposal Facility, and the NPD Closure Project. For dates, locations and times – go to c-n-l dot c-a.

Appendix M MyCNL Post

Home > Environmental Remediation Management > Environmental Assessment Update for the NI

Posted by Margot Thompson on January 20, 2022

The Canadian Nuclear Safety Commission (CNSC) has requested that Canadian Nuclear Laboratories (CNL) provide further revisions to information provided in the revised draft Environmental Impact Statement (EIS) for the Nuclear Power Demonstration (NPD) Closure Project. CNL submitted the revised draft EIS to the CNSC in December 2021 for a completeness check, which is a part of the ongoing federal environmental assessment for this in-situ disposal project.

CNL is closely examining the regulatory feedback and reassessing the EIS submission. This feedback was specific to Indigenous content. CNL will continue to work with Indigenous communities and public stakeholders to ensure interests and concerns are reflected in the revised EIS and addressed by the project.

Once the completeness check has been achieved, the next step in the environmental assessment process is a technical review by Indigenous, federal and provincial representatives. More information on the milestones in the environmental assessment process can be found in Appendix A of the Administrative Protocol.

CNL is endeavouring to submit a final EIS, incorporating all comments provided by the public, Indigenous communities, interest groups, and federal and provincial bodies since 2015, in late 2022.

The letter from the CNSC to CNL is available here.

For more information on the NPD Closure Project: www.cnl.ca/npd.

Thursday, January 20, 2022
LIKE 4 LIKES 0 COMMENTS

Appendix N Voyageur Article

KEY MILESTONE FOR NPD CLOSURE PROJECT

Milestone Environmental Assessment submission for the NPD Closure Project

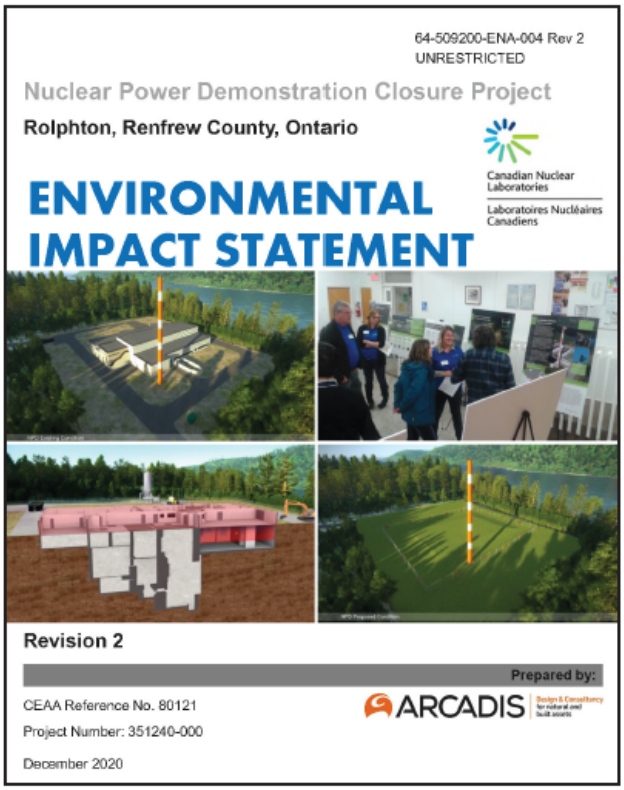
A big congrats to the NPD Closure Project! On Tuesday, December 15, the project team hit a key milestone with the resubmission of their revised draft Environmental Impact Statement (EIS).

The revised draft EIS for the NPD Closure Project was first submitted at the end of March 2020. After which, the CNSC came back with a request for further information. Since April, the project team has been working on responding to information requests from the Canadian Nuclear Safety Commission (CNSC) and updating the revised draft EIS to ensure a satisfactory resubmission.

Over the course of Environmental Assessment (EA), CNL has learned the key areas of interest and concern from the public, Indigenous Peoples and federal and provincial agencies. CNL has addressed comments from stakeholders and Indigenous communities and incorporated this feedback into the revised draft EIS. Details on the key changes to the revised draft EIS were shared in our webinar this month, which is now available on myCNL TV and YouTube.

What's the next step in the EA process for NPD? Pending a satisfactory completeness check, the CNSC will begin their 90 day technical review of the revised draft EIS. There are likely to be a number of further information requests and comments from the CNSC that come out of this review, but this submission marks an important step in progressing towards the final EIS, which is anticipated to be submitted in the fall of 2021.

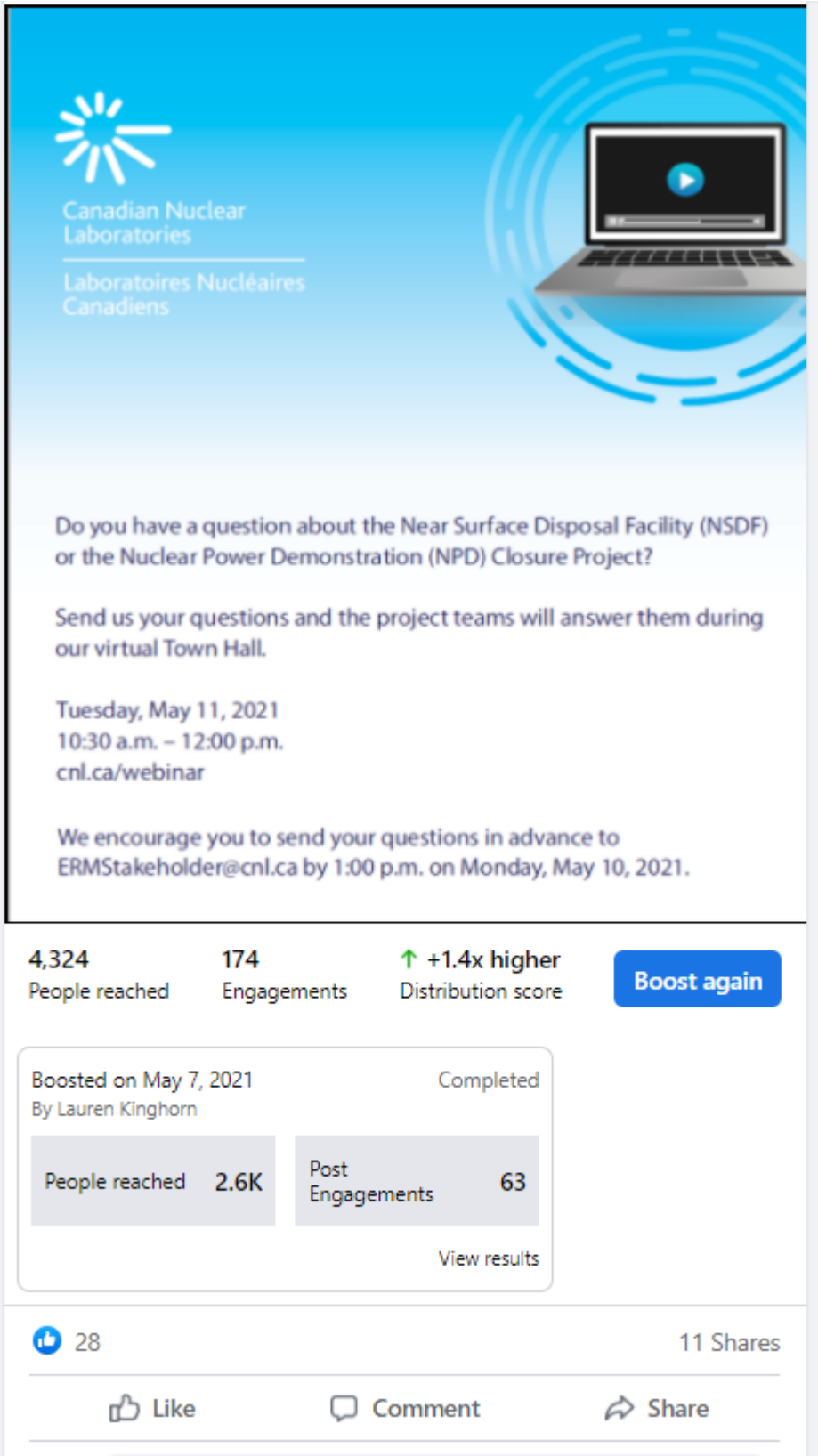
After the hard work put in the NPD Closure Project team can hopefully take a pause during shutdown to celebrate this submission!



Appendix O Facebook

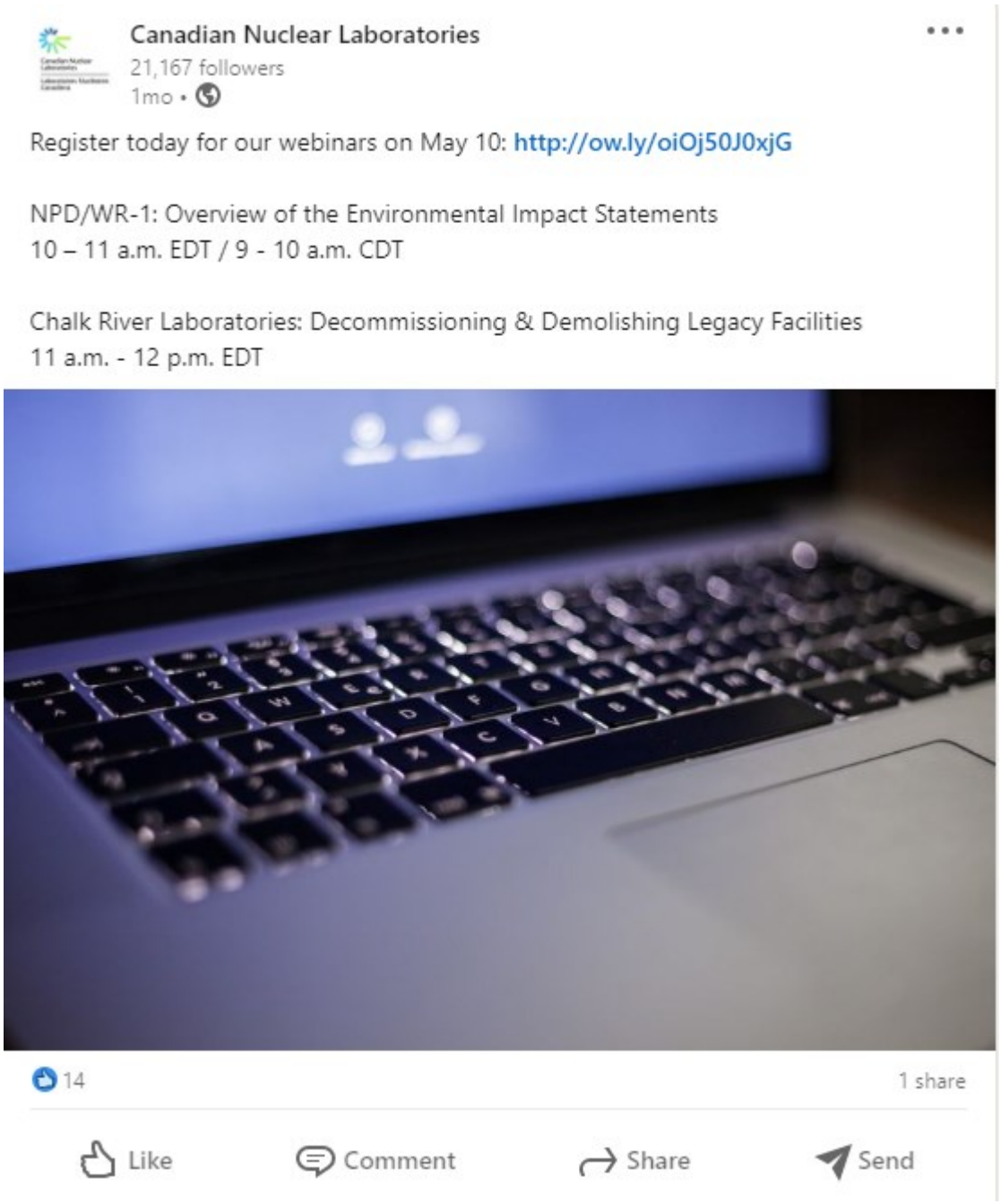
CNL Facebook Post

CNL Boosted Facebook Post


Canadian Nuclear Laboratories
Laboratoires Nucléaires Canadiens
Do you have a question about the Near Surface Disposal Facility (NSDF) or the Nuclear Power Demonstration (NPD) Closure Project?
Send us your questions and the project teams will answer them during our virtual Town Hall.
Tuesday, May 11, 2021
10:30 a.m. – 12:00 p.m.
cnl.ca/webinar
We encourage you to send your questions in advance to ERMStakeholder@cnl.ca by 1:00 p.m. on Monday, May 10, 2021.
4,324
People reached
174
Engagements
+1.4x higher
Distribution score
Boost again
Boosted on May 7, 2021
By Lauren Kinghorn
Completed
People reached 2.6K
Post Engagements 63
View results
28
11 Shares
Like
Comment
Share

Appendix P Twitter

Appendix Q Linkedin



Appendix R News Article

OTTAWA CITIZEN

Local News

Ottawa environment committee doesn't oppose Chalk River waste facility, but states concerns

The new recommendation calls on CNL and the Canadian Nuclear Safety Commission to address concerns about projects at two nuclear facilities in the Ottawa Valley.

Jon Willing
Mar 30, 2021 • March 30, 2021 • 3 minute read • Join the conversation

Canadian Nuclear Laboratories is proposing to build a "near surface disposal facility" in Chalk River to store low-level nuclear waste. PHOTO BY HANDOUT /Canadian Nuclear Laboratories

The environment committee isn't telling council to oppose a new nuclear waste project at the Chalk River research lab near the Ottawa River after endorsing a softer approach on Tuesday.

Coun. Theresa Kavanagh originally wanted council to fight a proposed nuclear waste disposal facility upstream in Chalk River, but she presented a replacement motion to the standing committee on environmental protection, water and waste management after city staff said the project could bring better protections for the Ottawa River.

The new recommendation, brought by Kavanagh via committee member Coun. Catherine McKenney and fully endorsed by the committee, calls on Canadian Nuclear Laboratories (CNL) and the Canadian Nuclear Safety Commission to address the City of Ottawa's concerns about projects at two nuclear facilities in the Ottawa Valley.

Kavanagh said the most important thing was providing a forum for discussion, which lasted almost eight hours.

"The fact that we're paying attention as a city is very important," Kavanagh said.

CNL, which is run by a private consortium led by SNC-Lavalin, wants to build a "near surface disposal facility" at Chalk River to hold one million cubic metres of low-level solid nuclear waste. Wastewater would be treated on site before being released into the environment. The facility would have a life of 550 years.

The Chalk River research complex is nearly 200 kilometres northwest of the City of Ottawa.

CNL also wants to complete decommissioning of the nuclear demonstration facility in Rolphton, Ont., along the Ottawa River northwest of Chalk River, by filling and sealing the underground infrastructure with special grout.

The projects are subjects of separate federal environmental assessments. Several local governments, including Gatineau and Montreal, and First Nations have stated their opposition to the proposals.

Most of the concern raised in Ottawa is related to the proposed Chalk River waste facility, which would be 1.1 kilometres from the Ottawa River.

The city uses the Ottawa River for drinking water.

Ian Douglas, a city water quality engineer, told the committee CNL's waste plan for Chalk River — what he called a "sound proposal from an engineering point of view" — would improve protection for the Ottawa River compared to the unprotected manner waste is stored there today.

Still, city staff want CNL to ensure the project demonstrates a lower risk to the Ottawa River. They are also concerned about waste being imported to the facility from other Atomic Energy of Canada Limited (AECL) sites and protecting the river during demolition and waste transfers at the Chalk River complex. Staff want CNL to issue prompt notification to the city of any spills into the river, hold regular tests of the notification system and transmit timely data on the Ottawa River.

Other than citing other technical questions for CNL, staff didn't raise major concerns about the projects at Chalk River and Rolphton.

Most of the roughly 30 members of the public who addressed the committee thought otherwise.

Ole Hendrickson, a researcher with the Concerned Citizens of Renfrew County and Area, said he believes the proposed waste mound at Chalk River would present higher risks, especially since it would be subjected to wind and precipitation.

Gordon Edwards of the Canadian Coalition of Nuclear Responsibility said, "Having waste beside the river is just asking for trouble."

On the other hand, David Thompson, the former mayor of Deep River, told the committee CNL's proposal is the best option to handle the nuclear waste. He said he trusts that Chalk River experts would design a safe project.

Shannon Quinn, vice-president of science, technology and commercial oversight for AECL, the federal Crown corporation that contracts CNL to manage its sites, defended the waste facility proposal for Chalk River as a "science-based solution."

AECL is paying an estimated $230 million for the proposed nuclear waste facility at Chalk River.

The motion endorsed by the committee calls on CNL and the safety commission to take action on the concerns, plus prevent precipitation from entering the Chalk River waste facility. The motion calls for the federal government to undertake a regional assessment of radioactive disposal projects in the Ottawa Valley.

Council will consider the committee's recommendations on April 14.

As for the current state of the city's drinking water, Douglas outlined the monitoring and tests done at the two municipal treatment plants and noted everything is done according to Health Canada protocol.

Lab-tested tritium levels in the water have been found to be 2-3 becquerel-per-litre (or Bq/L, a measure of radioactivity) and regulations call for a maximum level of 7,000 Bq/L, Douglas said.

The committee wants an update on radioactivity as part of the annual drinking water report received by council.

jwilling@postmedia.com

twitter.com/JonathanWilling

Appendix S Detect and Correct Response

CNL Responds To Environment Column

Added: Wed, 04/11/2018 - 9:21pm

This is regarding your alarming reporting regarding Canadian Nuclear Laboratories' (CNL) releases of water into the Ottawa River in Katharine Fletcher's Our Environment column in the March 28 issue.

It's an inaccurate portrayal of how we operate. Like all industries, we do have planned releases to the environment, both liquid and airborne, but the levels of tritium in the Ottawa River due to our releases are far below regulatory limits.

We want to clarify some points that arise in the column:

First, all radiological releases from NPD fall well below the derived release limits, which are regulatory standards set by the Canadian Nuclear Safety Commission to ensure the Ottawa River is protected. It is safe to eat the fish and swim in the water. In fact, the releases at NPD are more than 10,000 times lower than the derived release limit, which means NPD has little to no impact on the public or environment. The resulting levels of tritium in the Ottawa River are much lower than Canadian drinking water quality guidelines as well as other international limits for tritium.

Second, the column makes it seem as though the releases at NPD are carried out in an uncontrolled fashion. This is not true. The releases from NPD are generally only once or twice a year, and are very limited in volume. CNL always samples and compares the results of the samples to the applicable regulatory limits prior to a discharge.

Third, what is not mentioned is that the proposed decommissioning project would in fact further reduce the level of releases.

Fourth, we are transparent about our releases. Annually, we share information on the effluent releases at all of our sites through our website. This January, we hosted the Algonquins of Anishinabeg Nation Tribal Council and their technical consultant to the NPD site to share information on the hydrogeology of the site and we have shared numerous documents related to our environmental performance to assist with their review of the NPD Closure Project. The report in question was submitted as a part of the Environmental Assessment – a process the public and Indigenous communities are encouraged to participate in.

We are not hiding anything because we know we are operating in a manner that protects our environment. At CNL, the safety of humans and the environment are our top priorities.

George Dolinar
Director of Radiation Protection and Environmental Protection
Canadian Nuclear Laboratories

Appendix T Feedback – 2016 June to 2024 January

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2024 January 03	ON	Email	I'm wondering whether an archived video would be available of a webinar held November 28 on the topic of "NPD – Planning for Site Restoration". If a link is available, that would be much appreciated.	**Response:** The recording of the webinar is on CNL's YouTube page, you can access it here: https://youtu.be/fZC3BQEiv_E?si=xuzCvoA7JWpsIwPV Please let me know if you have any questions about the presentation.
2023 December 15	ON	Email	Thank you for including me. NPD was the first nuclear plant I was licensed at and is a special place for me. I recall the boiler room filling with ECI water when a flange ruptured, recovering the plant and being the first person to re-enter the boiler room as we pumped the water out. We had many interesting experiences there. Take good care of it.	**Response:** Thank you for sharing your experience at NPD. It is great to hear positive stories from folks who have worked at the sites in the past. If you would like to be included on our email list to receive more information on NPD and the other Environmental Remediation Management Projects, please let me know.
2023 December 13	ON	Webinar Q&A	Will the whole NPD site – disturbed and undisturbed be under the federal jurisdiction or provincial or local government?	**Response:** The Nuclear Power Demonstration site (both the disturbed and undisturbed areas) is owned by Atomic Energy of Canada Limited (AECL), a federal Crown corporation, and is therefore under federal jurisdiction. The Canadian Nuclear Safety Commission (CNSC) is the authority that has jurisdiction for all nuclear facilities within Canada and the NPD Waste Facility (licensed area) will remain under this federal jurisdiction (or equivalent) for as long as nuclear license remains in place. Although this is a federal site, CNL also looks to provincial regulations and guidelines in its current management and restoration plans for the site to supplement federal guidelines (e.g., provincial landfill regulations and provincial soil and groundwater guidelines).
2023 December 13	ON	Webinar Q&A	What are the ecological advantages/disadvantages to leaving foundations and concrete pads in place.	**Response:** The ecological advantage for leaving foundations and concrete pads in place would be to minimize disturbance to the area and promote new and continued plant/habitat growth. The disadvantages for leaving foundations and concrete pads in place are that until the structures deteriorate further, they would limit the growth of vegetation and possibly the use of this area by other

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				plants and wildlife. This could be partially mitigated by the addition of cover soil. Alternatively, there are several potential ecological impacts related to removing the foundations and concrete pads that are currently present at the NPD site where mitigation measures would be required to minimize impact to the surrounding environment. Ecological risks to consider when removing concrete and foundations include: the production of dust, loud noises which could disturb nearby wildlife, erosion of soil, and potential spills from motorized excavation equipment. From an environmental sustainability and waste minimization lens, removing the foundations and concrete pads would generate waste to be further managed through disposition or disposal, which may result in unnecessary resource use. The most significant risk for removing the foundations and concrete pads would be the disturbance of the re-naturalization that has already begun to occur in this area. For example, the NPD site contains milkweed, which is a perennial plant that attracts and feeds the monarch butterfly (a Species at Risk). Therefore in order to avoid ecological impacts, it would be advantageous to leave the foundations and concrete pads in place. The most significant advantage of fully removing foundations and concrete pads would be that the land could be suitable for unrestricted land use.
2023 November 28	ON	Webinar Q&A	Question: the presenter stated that the proposed end-state for NPD was a waste disposal facility. As such, there is no intent for the retrieval of the wastes. If true, what is the actual end-state for that disposal facility?	**Action:** Question answered live.
2023 November 28	ON	Webinar Q&A	Why would you not move radioactive materials further away from the Ottawa River?	**Action:** Question answered live.

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2023 November 28	ON	Webinar Q&A	The first poll question does not include “unrestricted land use”. This is a significant oversight.	**Action:** Question answered live.
2023 November 28	ON	Webinar Q&A	What are the ecological advantages/disadvantages to leaving foundations and concrete pads in place.	**Action:** Question answered live.
2023 November 28	ON	Webinar Q&A	It would be good to keep the historical significance in mind. Suggest leaving the boat shaped structure. Keep the current open site treeless and mow the grass perhaps twice a summer. As mentioned previously, signs would be good.	**Action:** Comment noted.
2023 November 28	ON	Webinar Q&A	Will the whole site - disturbed and undisturbed be under the federal jurisdiction or provincial or local government?	**Action:** Question answered live.
2023 October 12	ON	Webinar Q&A	What is the uncertainty associated with the estimated doses and how is uncertainty managed?	**Response:** The Normal Evolution scenario is a reference description of a defensible scenario with conservative bias built into the assumptions of the evolution of the Facility and its surrounding environment. In this scenario, the facility is closed as planned with no unforeseen events. A period of institutional control is initiated and lasts for at least 100 years during which the facility stays under surveillance. This scenario assumes that no human intrusion occurs within this timeframe or thereafter. Dose has been evaluated for four representative exposure groups. These have been selected to be representative of the most exposed individuals to contaminants released from the Facility. The four representative groups are: • The Site Resident, which represents a small family group that lives on the site of the Facility and obtains all their food from the immediate vicinity;

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				• The Hunter, which represents recreational activities that could lead to exposure to contaminants; • The Indigenous group with habits based on a recent study of diet and harvest by a local Indigenous community; and • An Offsite Receptor, which represents groups living downstream of the Site. The highest dose to these receptors is of 8E-5 mSv per year which would be received by an infant of the Site Resident group. This dose is dominated by the ingestion of food from vegetables grown in a garden on the site, in which Cl-36 has accumulated. The dose is 1,000 times lower than the dose criterion of 0.25 mSv per year, and occurs 12,000 years after the closure of the Facility (the dose rate value at 10,000 years is the same to one significant figure). The management of uncertainty is a key issue in our safety assessment because of the range and nature of uncertainties over the typical assessment timescale. The uncertainties can be categorized into three types [1]: • Future or scenario uncertainty: uncertainty in the evolution of the system and human behaviour over the timescales of interest; • Model uncertainty: uncertainty in the models used to simulate the system (especially any approximations and simplifications); and • Data uncertainty: uncertainty in the data and parameters used in the modelling. These uncertainties are managed in the current assessment in the following way: • The assessment of a range of scenarios, models and data with a suite of calculation cases; and • The adoption of conservative scenarios, models and data. It should be noted that care is needed as the net effect of an aggregation of many conservative assumptions can be an unrealistic estimate of impacts.

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				Furthermore, some analyses (e.g., optimisation studies) can be meaningless if the assessment is dominated by conservative assumptions. Where possible, scientifically informed, physically realistic assumptions are made for processes that are understood and can be justified on the basis of the results of research and/or site investigation. Where there are high levels of uncertainty associated with processes and data, conservative assumptions are adopted to allow uncertainties to be bounded. Uncertainty in the future evolution of the site is addressed by the consideration of a range of scenarios that encompass its expected futures. Key conceptual and mathematical model uncertainties are assessed in a similar way, through a series of alternative calculation cases, identified via a structured model development process making use of a features, events and processes analysis. Discrete alternative calculations can be easier to interpret than probabilistic analyses. In cases where the features, events and processes indicated several aspects that are uncertain, calculation cases have been defined to explore these factors. The following are the areas of interest for sensitivity cases: • Inventory of radionuclides that may remain in the facility; • Flow and transport of contaminants through the main barrier to their release to the surface; • Sorption of radionuclides (reduced near-field and/or reduced far-field); • Degradation of the barriers; • Geosphere bedrock or overburden hydraulic conductivity; • River flows; and

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				• Self-sufficient Indigenous receptor. Only three scenarios calculated from the sensitivity cases observe human dose results greater than the highest dose receptor (infant of the Site Resident group, 8E-5 mSv/year) from the Normal Evolution Scenario. These three scenarios are: increased radionuclide inventory, reduced near-field sorption and reduced sorption in near-field and far-field. The highest of these three was the increased radionuclide inventory where the peak dose would occur to an infant in the Site Resident group and is 2E-4 mSv/year set to occur 12,000 years after closure of the facility. This value is 1,000 times less than the dose criteria of 0.25 mSv/year. The rest of the sensitivity cases calculated observed dose results below the Normal Evolution Scenario's highest dose receptor of 8E-5 mSv/year. The lowest dose was calculated for increased dilution in the river, which would expose humans to 4E-9 mSv/year in Ottawa, set to occur 7 years after the facility closure. If you are interested in more information about this topic, feel free to reach out to us via e-mail (ermstakeholder@cnl.ca). We would be happy to set up a meeting to discuss this further. References: [1] Marivoet, J., Beuth T., Alonso J. and Becker D.A. (2008). *Safety Functions, Definition and Assessment of Scenarios, Uncertainty Management and Uncertainty Analysis, Safety Indicators and Performance/Function Indicators.* PAMINA Deliverable D-No. 1.1.1, European Commission.

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2023 October 12	ON	Webinar Q&A	If the calandria is removed, what would the dose to workers and the public be?	**Response:** As a point of clarification, CNL's proposal does not include the removal of the calandria as part of the proposed in-situ disposal. However, removal of the calandria prior to grouting was one of the alternatives that CNL evaluated as part of the Alternative Means Assessment for the NPD Closure Project. CNL has performed some scoping calculations in order to provide a dose-based discussion in support of the selection of the preferred alternative. Assuming the work was done now, an estimate of the collective dose to perform the alternate of full dismantling and removal has been performed. The dose estimates have been made using the same level of detail and using similar assumptions to that produced for the Detailed Decommissioning Plan for in-situ disposal. The collective dose estimate for the full dismantling alternate is 761 person mSv which is approximately 50 times the current Detailed Decommissioning Plan dose estimate of 14.3 person mSv for the in-situ decommissioning alternative. The estimated collective dose for removal of just the calandria is on order of 300 person mSv. The dose estimate for full dismantling or removal of just the calandria is only for the decommissioning execution phase and is not inclusive of the institutional control phase where workers would receive doses during re-handling and packaging of this waste during transition from storage to disposal.
2023 October 12	ON	Webinar Q&A	The materials that you sent to CNL Chalk River - will they be sent back to NPD to be included in the in-situ disposal?	**Response:** The waste materials sent to Canadian Nuclear Laboratories' Chalk River Laboratories (CRL) site for safe waste management will not be sent back to the Nuclear Power Demonstration (NPD) site, and therefore will not be included in the proposed in-situ disposal. During preliminary decommissioning, all fuel and heavy water was removed from the NPD facility and sent to CRL's Waste Management Areas for safe and secure storage until such a time as a suitable geological repository for high-level radioactive waste is available. Other materials at the NPD site, such as the Active Storage Tank, were inspected and shipped to CRL for disposition. Sludge was also removed from

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				the tank, loaded into drums, solidified, and shipped to CRL for disposition. All liquid effluents are assessed and managed following an approved CNL Environmental Protection process, which outlines the appropriate disposition route depending on the results. Liquid effluents, such as water collected from the Wells Area Sump, are sent to CRL for processing. Overall, in-situ disposal is being proposed for existing waste within the NPD facility only. No other waste from external sources, or waste currently stored at CRL, will be accepted into the proposed disposal facility at NPD.
2023 October 12	ON	Webinar Q&A	How does the Canadian regulator limit for dose / release compare to that of other jurisdictions? e.g. EU, US. Please provide a reference. Follow up: Question was meant to be about the regulatory limit, not the regulator limit; apologies for any confusion. Restated with the correction: "How does the Canadian regulatory limit for dose / release compare to that of other jurisdictions? e.g. EU, US. Please provide a reference. "	**Response:** The Canadian regulatory dose limit of 1 mSv/year is detailed in Section 8.1.1.1 of CNSC Regdoc 2.11.1 Volume 3, [5], and states: "*The post-closure safety assessment of a disposal facility shall provide reasonable assurance that the regulatory radiological dose limit for public exposure (currently 1 mSv/year) will not be exceeded for the normal evolution scenario."* Generally for Europe the limits are set based on the latest ICRP recommendations published in 2007 in ICRP publication 103, which lays out the 1 mSv/year criterion. At a European level, the Euratom Treaty defines the procedures for drafting of EU requirements concerning protection against radiation and specifies the powers and obligations of the European Commission with respect to their enforcement. The corresponding Euratom directives are binding on the various countries, such as Directive 96/29/Euratom that lays down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation. For example it can be seen that for Germany, France, the United Kingdom and the United States, the following limits are applied: • In Germany, the limit value for the effective dose aimed at protecting members of the public is 1 mSv/year, 80(1), Radiation Protection Act, [6]; • In France, the public dose limit is 1 mSv/year for effective doses to the whole body, [7];

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				• In the United Kingdom, the dose limits for members of the public is 1 mSv/year effective dose, 15 mSv/year dose to the lens of the eye and 50 mSv/year dose to the skin. The limits do not apply to doses in the event of nuclear accidents or radiological emergencies, to natural background radiation, or to medical irradiation, [8]; and • In the US, the dose limits to members of the public is 1 mSv, [9]. *References* [5] CNSC, *Waste Management, Volume III: Assessing the Long-Term Safety of Radioactive Waste Management*, CNSC REGDOC-2.11.1, Volume III, 2021 January. [6] *German, Radiation Protection Act*, https://www.gesetze-im-internet.de/strlschg/ [7] *Code de la santé publique*, Art. R.1333-8 of the CSP (Public Health Code), https://www.legifrance.gouv.fr/codes/texte_lc/LEGITEXT000006072665/2023-09-28/ [8] *The Ionising Radiations Regulations 2017*, https://www.legislation.gov.uk/uksi/2017/1075/schedule/3/made [9] *Subpart D—Radiation Dose Limits for Individual Members of the Public*, 56 FR 23398, May 21, 1991, https://www.nrc.gov/reading-rm/doc-collections/cfr/part020/part020-1301.html.
2023 September 28	ON	Webinar Q&A	100 years of institutional controls. What kind of controls exactly?	**Action:** Question answered live.
2023 September 28	ON	Webinar Q&A	Could you explain a little more on the Discharge to river in the Geosphere Model?	**Action:** Question answered live.

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2023 September 28	ON	Webinar Q&A	Are CNL planning to execute the NPD decommissioning work themselves or will CNL be looking for support from Contractors to Plan, Decommission and Entomb the NPD facility?	**Action:** Question answered live.
2023 September 28	ON	Webinar Q&A	What is the basis for the dose criteria / limit? Please provide references.	**Response:** The post-closure safety assessment, uses specific criteria from CNSC REGDOC-2.11.1 [1] for radiation exposure that may result from the expected evolution of the NPDDF, referred to as “Normal Evolution Scenario”. The same criteria is used for radiation exposure that may result from events with low or uncertain probability, referred to as “Disruptive Event Scenarios”. To account for the possibility of exposure from multiple sources, and their potential cumulative effects, and to help ensure that doses resulting from the disposal system are as low as reasonably achievable (ALARA), a dose constraint should be established as a fraction of the regulatory dose limit. The dose constraint is not a limit, but rather a design tool in the optimization process. For example, for optimization, the International Commission on Radiological Protection (ICRP) [2] recommends a dose constraint of 0.30 mSv/year. For the NPDDF project it was determined that when taking the above factors into account that an acceptance criterion of 0.25 mSv/year was appropriate. • For the “Normal Evolution Scenario”, the criterion for radiological exposure is that the dose to the public and to workers will be ALARA, and no more than 0.25 mSv/year. This criterion is also a ‘dose constraint’ for design optimization. While the dose constraint is used as a design target in the optimization process, it is not used as a limit for compliance. The dose constraint therefore, is not used to provide margin to the 1 mSv/year dose limit to account for uncertainties; rather, these modelling uncertainties are addressed by conservatisms built into the assessment model, the scenario design, and parameter choice. As such, the calculated results for these cases account for uncertainties either explicitly or through conservative assumptions, but do not account for unknowns.

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				• This dose constraint provides a factor of four margin to the regulatory dose limit of 1 mSv/year. For comparison, 0.25 mSv/year is approximately one eighth of the annual individual dose received from natural background radiation in Canada (which is about 2 mSv/year). • For the "Disruptive Event Scenarios", the regulatory dose limit of 1 mSv/year for public exposure is used as a criterion and compliance limit. The assessment of "Disruptive Event Scenarios" account for unknowns. If calculated doses exceed 1 mSv/year, the scenario is examined on a case-by-case basis, taking into account the likelihood and nature of the exposure, conservatism and uncertainty in the assessment, and conservatism in the dose criterion. If the probability of exposure can be quantified, a reference health risk value of $\leq 10^{-5}$ y^{-1} [3] can be used. The probability of exposure is considered during the scenario definition process; very low probability provides a basis for screening scenarios from detailed assessment. • There are also other scenarios included with deliberately extreme assumptions that are evaluated to understand the boundaries of the post-closure assessment. These "What-If" and "Defence-in-Depth" cases, are compared to the regulatory dose limit of 1 mSv/year for public exposure. If the calculated doses exceed 1 mSv/year, the scenario is examined on a case-by-case basis, taking into account the likelihood and nature of the exposure, conservatism and uncertainty in the assessment, and conservatism in the dose criterion. Due to their very low probability of occurrence and unrealistic assumptions or inputs these what-if cases are screened from detailed assessment. The radiological dose acceptance criteria for human intrusion during the post-closure phase are assessed separately [4]: • If intrusion is expected to lead to an annual dose of less than 1 mSv, then efforts to reduce the probability of intrusion, or to limit its consequences, are not warranted;

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				• If intrusion is expected to lead to an annual dose in the range of 1-20 mSv, reasonable efforts are warranted to reduce the probability of intrusion or limit its consequences; and • If intrusion is expected to lead to an annual dose in excess of 20 mSv, then alternative disposal options must be considered. *References* [1] CNSC, *Waste Management, Volume III: Assessing the Long-Term Safety of Radioactive Waste Management*, CNSC REGDOC-2.11.1, Volume III, 2021 January. [2] *ICRP Publication 103, The 2007 Recommendations of the International Commission on Radiological Protection.* International Commission on Radiological Protection (ICRP). United Kingdom 2007. [3] *Near Surface Disposal Facilities for Radioactive Waste*, SSG-29, STI/PUB/1637, IAEA, 2014. [4] *Disposal of Radioactive Waste*, SSR-5, IAEA, 2011.
2023 September 28	ON	Webinar Q&A	Can you explain the difference in leaving everything as is now and going forward with the IN-Situ disposal.	**Action:** Question answered live.
2023 September 28	ON	Webinar Q&A	How are responses to questions submitted to "ERM Technical" shared with the public? CNL should assume that questions posed and the response are of interest to multiple parties in addition to those who pose the question.	**Response:** Thank you for the suggestion. For any questions that need a more technical answer we can take an action to reply to those in writing to everyone who has joined today.
2023 September 28	ON	Webinar Q&A	I signed on a bit late. Are you still planning on destroying the building in 2026?	**Action:** Question answered live.

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2023 September 28	ON	Webinar Q&A	Why is full removal of the waste not proposed?	**Action:** Question answered live.
2023 September 28	ON	Webinar Q&A	What is the current timeline to initiate the In-Situ disposal, Cap & Cover and completion of the decommissioning work in the field?	**Action:** Question answered live.
2023 September 28	ON	Webinar Q&A	Will the Calandria be broken down and removed by the CNL Decommissioning Team prior to demolishing the topside facilities? Or will the Calandria be cut up and moved into the below ground rooms?	**Action:** Question answered live.
2023 September 28	ON	Email	Is there a recorded version of the presentation to watch? I had to attend a meeting during the presentation.	**Response:** The webinar will be posted to the CNL YouTube page for you to watch. We usually get it posted a week after the webinar date.
2023 September 21	ON	Email	Regarding the Sept 28 webinar - Post Closure Safety Case. I wanted to attend this but I've been booked in an interview. Can you guys tell me what this is all about? Who is presenting?	**Response:** The webinar is on the updates to the Post SA for NPD. It will be recorded and posted to the CNL YouTube page if you want to watch it after. Hope that helps, reach out if you have more questions.
2023 May 31	ON	Email	I was registered for last Wed but was unable to attend. I'd like to make it out tonight and wonder if it be possible to bring my wife along? She did not register for the event. Thanks.	**Response:** If you register then yes, we invited everyone back this week since the cooler weather resulted in little to none Swift activity. I see you name on the list, I can add your wife if you provide me her full name.

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2023 May 31	ON	Email	Do we have to register?	**Response:** Yes, attending the even required registration. Due to the high interest we have a waitlist for tonight. While the event is full, you can still participate and watch the livestream on our Facebook page.
2023 May 30	ON	Email	Sorry for not getting back to you sooner. Unfortunately, none of us can make it tonight. Our out of town guests are not as interested as me and I'm coming down with a cold so I'm not up to the drive by myself.	**Response:** Thank you for letting me know. You can always watch the livestream of tonight's count on our Facebook page. It will be available after the event as well.
2023 May 29	ON	Email	Thanks for the update and the evening last night. We'll try coming again next week (perhaps with three additional out-of-town guests).	**Response:** Looking forward to seeing you this week. Can you please send me the names of the three additional people? We do have a waiting list for attendance, I can look up if they are on it.
2023 May 29	ON	Email	Last Wednesday evening I checked with you if it would be okay if my husband, came along this week, however he won't be able to make it. Would it be possible for me to bring my parents, along instead? I believe they registered but were on your wait list. We would come together in one vehicle. Let me know please and thank you.	**Response:** Thank you for letting me know. Yes they can come. See you Wednesday.
2023 May 24	ON	Email	I have tested positive for covid, so will have to take a pass on the swift viewing. I hope this message is in time to give my spot to someone else.	**Response:** Wishing you a speedy recovery and thank you for letting us know you will be unable to attend tonight. You can still watch online as we will be livestreaming the event on our Facebook page.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2023 May 24	ON	Email	My guess for the number of Chimney Swifts on May 24/23 is 1,777.	**Action**: Comment noted, no further action required.
2023 May 23	ON	Email	77	**Action**: Comment noted, no further action required.
2023 May 23	ON	Email	My guess is 29.	**Action**: Comment noted, no further action required.
2023 May 03	ON	Email	Hi there, Are public tours, guided or self-directed, available on the weekends of the Chalk River facilities please? We'd like to visit for Mother's Day (Sun May 14). I've already had a look on the website and didn't see any mentions of tours. We'd be happy to just read any plaques while walking about and ideally a picnic table at a lookout point, even if it's not a formal touristic affection. Thank you,	**Response:** On a beautiful day I would defiantly recommend the drive to the lookout Philip mentioned. To get there from Deep River you head west on the Highway towards Rolphton. You can actually type in "NPD Lookout Point" into Google Maps to find it, I've included a map below. This time of year you will be able to see the iconic red and white stack at the NPD site. I've heard wonderful thing about the Reilly Bird Nature Preserve, I believe there are hiking trails. More information, including directions, can be found on their website: https://ontarionature.org/programs/nature-reserves/reilly-bird/. I noticed you were interested in the history of the area, I would also recommend you looking into visiting the Canadian Nuclear Museum (The Society for the Preservation of Canada's Nuclear Heritage). They are located in Deep River. Their website is https://nuclearheritage.com/ More information on CNL events, including our Chimney Swift Count Night can be found on our events page.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2023 May 02	ON	Email	Are we able to bring our family members to this event? If so, do we need to register each family member?	**Response:** Yes, you will need to register each person in your family as space is limited.
2023 February 21	ON	Webinar Q&A	What are the longest-lived isotopes in the radioactive inventory? What is CNL's estimate of the length of time that the inventory would remain contained and isolated from the environment?	**Response:** The longest lived isotopes in the NPD inventory are Thorium-232 with a half-life of 1.41E+10 years and Uranium-238 with a half-life of 4.47E+09 years. While these are extremely long timescales, the quantity of these radionuclides in the NPD facility are low. Th-232 is only present in the activated metals in the reactor and has a total inventory of 1.15E+07 Bq. U-238 is present as contamination dispersed through the entire structure and has a total inventory of 3.49E+07 Bq. Th-232 is dispersed in 6.75E+07 g of metal in the reactor vault and the U-238 is dispersed in approximately 10E+13 g of concrete. These quantities result in concentrations of these radionuclides that are lower than the 1 Bq/g unconditional clearance levels quoted in the Nuclear Substances and Radiation Devices Regulations, SOR/2000-207 and therefore present little hazard to people and the environment. Most of the remaining long-lived radionuclides in NPD's radioactive inventory are embedded within stainless steel and Zirconium alloy components associated with the calandria, and cannot be released until the component corrodes. This is also the case for Th-232, which is retained within the calandria components. The components are located in the reactor vault which is below the bedrock level. The inventory within the zircaloy is dominated by longer lived radionuclides (principally, Zr-95, Ni-59/63 and C-14) and the zircaloy corrodes very slowly in the alkaline environment of the reactor vault. With the exception of Nb-93m, a daughter product of Zr-93, all concentrations fall with time, largely due to radioactive decay. Radionuclides present in the zircaloy

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				matrix (Zr-93, Ni-59 and Cl-36) remain unchanged until more than 10,000 years as they have long half-lives and are retained in the metal. For example steels in the reactor are predicted to take 30,000 years to corrode. Even 50,000 years after closure, 98% of the radioactivity is shown to remain in the Facility. This illustrates that the NPD facility is effectively containing radionuclides within the structure. Section 4.4.1.1 of NPD's Environmental Impact Statement (EIS) states: *The vast majority of the waste inventory, by volume, can be categorized as LLW due to the presence of short-lived radionuclides which will principally decay to below established clearance levels within the Institutional Control phase. Based on the activation products within the reactor system, a small volume (~ 125 m^3) could be classified as ILW and therefore require the degree of containment and isolation afforded by the reactor vault shielding…Although the surface contamination within systems includes long-lived alpha emitting radionuclides (e.g., U-235, U-238, Pu-239), these radionuclides are only present in very low residual amounts, thus the significant majority of the long-lived radionuclides are beta emitters.* Please contact us if you would like more information on any of the topics discussed during this webinar.
2023 February 21	ON	Webinar Q&A	Could you provide the answer re the isotopes to all attendees?	**Action:** Question answered live.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2023 February 21	ON	Webinar Q&A	If the CNSC approves of the final EIS, do you approximately know when we can expect construction to begin?	**Action:** Question answered live.
2023 February 21	ON	Webinar Q&A	You now plan to monitor "any spring that may arise along the slope." Are there any springs along the slope at present? What might cause a spring to arise?	**Action:** Question answered live.
2023 February 21	ON	Webinar Q&A	What specifically are the additional mitigation efforts to protect the Ottawa River?	**Action:** Question answered live.
2023 February 21	ON	Webinar Q&A	Where was the NPD fuel removed to in 1988?	**Action:** Question answered live.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2023 February 21	ON	Webinar Q&A	It was my understanding that CNL was applying to build the batch plant outside the gates in Chalk River along the Plant Rd. Has this application been withdrawn?	**Action:** Question answered live.
2023 February 21	ON	Webinar Q&A	Could you please list the characteristics that support in situ disposal facility with specifics.	**Action:** Question answered live.
2023 February 21	ON	Webinar Q&A	What is the local source of blast furnace slag?	**Action:** Question answered live.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2023 February 21	ON	Webinar Q&A	You say you expect additional comments when you release a new draft EIS in July 2023. Will the draft be made public? Do you expect the public to comment?	**Action:** Question answered live.
2023 February 21	ON	Webinar Q&A	An old story of the explosion at the nuclear power demonstration site is reappearing in the news. A normally well researched presentation by Rachel Maddow show on MSNBC refers to how in 1952 Jimmy Carter saves Canada from nuclear explosion. Could you provide a bit of background about what really happened and how important the American assistance was to deal with the problem? Associates who are familiar with CHALK River indicate the incident was overblown. During the decommissioning process are there any residual problems from that accident decades ago?	**Action:** Question answered live.
2023 January 12	Ontario	Online form	Hi, I would like to know when NPD will begin demolition?	**Response:** Good afternoon, Thank you for your question about the Nuclear Power Demonstration (NPD) Closure Project. CNL submitted a draft Environmental Impact Statement (EIS) to the CNSC in 2017. Since that time, CNL has addressed several hundred comments and requests for information from the public, federal and provincial government agencies (including Health Canada and the Province of Quebec), stakeholders and Indigenous communities and expects to have a final version of the EIS by

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				the summer of 2024 , with public hearings for the project anticipated for 2025. The CNSC would then issue a decision in early 2026, if approved CNL would be ready for the third and final phase of the decommissioning. Our proposed strategy is in-situ disposal. It is expected that the decommissioning will take approximately two years to be completed, pending the Canadian Nuclear Safety Commission (CNSC) approving the environmental assessment and the project meeting all necessary licensing requirements. CNL will be providing updates on the NPD Project at the next bi-monthly webinar series, planned for February. We will post most information on the webinar on CNL events page at https://www.cnl.ca/news-publications/events/ If you have any other questions, feel free to reach out.
2022 September 18	Ontario	Email	Due to other commitments, I will be unable to join on September 28th. Can you please confirm that the recording will be available on the CNL web site after the sessions?	**Response:** Thank you for your interest in our Environmental Remediation Management (ERM) webinars, held on September 28, 2022. To watch the recorded webinars, please see CNL's YouTube page: CNL's Cleanup Function webinar* Webinaire de Fonction de nettoyage des LNC* NPD and WR 1 webinar Who Supports an Environmental Assessment Project NPD et WR 1 Webinaire Qui soutient un projet d'évaluation environnementale NSDF webinar Construction Sequencing Planning Webinaire d'IGDPS Planification de la séquence de construction *Due to technical difficulties, we had to rerecord this webinar. We also have some follow-up information for each webinar below:

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				NSDF Project A few participants were interested in the Safety Case for the NSDF. This document is available here. There was also an international third party review of the Safety Case, which is available here. **Cleanup Function** One participant requested the Overall Decommissioning and Cleanup Plan document. This will be officially completed in 2023; so stay tuned for more information! Another participant had questions about CNL's plan to involve Indigenous Nations in procurement. CNL is currently finalizing our Indigenous Procurement Strategy. We seek to engage with Indigenous businesses and potential employees who wish to work with or do business with CNL-managed projects or with our prime contractors. **WR-1 Decommissioning and NPD Closure Project** A few participants were interested in a comparison of the safety of CNL's different environmental assessment projects. We wanted to share the links to each of the webinars we've held on the safety case to shine some light on how each project meets safety standards: WR-1 Decommissioning NPD Closure Project NSDF project We invite you to contact us if you would like more information on any of the

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				topics discussed during these webinars. Thanks again for taking time to discuss these projects with us!
2022 July 11	Ontario	Email	I just wanted to say that I had a great time. I've done a lot of events – and this was, by the far, the event w the most engagement. I'd been joking that it felt a bit like a wedding reception line – where everyone politely spoke to everyone! Thanks for thinking to include us.	**No Action Required**
2022 July 11	Ontario	Email	Thanks kindly for putting it all together – it was fun and well worthwhile. Now for the CNL Open House Sat August 06.	**No Action Required**
2022 July 11	Ontario	Email	Thank you for inviting us to participate. The event went very well and everyone I spoke with also had very positive feedback and were very appreciated of the opportunity to tour the facility.	**No Action Required**

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 28	Ontario	Email	Good Afternoon, My husband, sister and just returned from having visited the NPD Site near Rolphton for your 60th Anniversary Event. I would like to extend our sincere thanks and appreciation for an outstanding event. Staff and volunteers were incredibly friendly and informative, the display tables from all the organizations were very interesting. A special shout-out to the Laurentian Hills Fire Department that slaved over hot barbecues on a sweltering day to feed the crowd! It was an honour to have a tour through the facility and to have the opportunity to learn more about our nuclear legacy on the actual site where history actually happened. I would like to especially thank the facility production manager and our tour guide who did a stellar job. He recognized the importance of celebrating these uniquely Canadian achievements with the public, and kudos to him for his passion and commitment for making today's celebration happen.	**Response:** Thank you so much for your kind words! We are glad you were able to make it out on such a hot day. I've passed on your email to the facility production manager, which I'm sure he will appreciate. If you're interested, CNL is also hosting an Open House at Chalk River Laboratories this August. All the details for that event are at www.cnl.ca/events. Thanks again.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			I believe that the importance and breadth of Canada's nuclear history is grossly understated. I would love to see ongoing regular tours of the NPD prior to its being totally decommission land demolished. I regret that my grandchildren that are coming to visit next week will have missed this event and the opportunity to learn firsthand about Canada's nuclear legacy. Thank you CNL, for the opportunity to have us visit such an iconic piece of our history. The day was fabulous, the tour and displays were informative and interesting. We appreciate all of the work and planning that went into today's celebration, and truly loved hearing about the expertise, skills and passion that went into the NPD. Best regards.	
2022 June 27	Ontario	Email	On behalf of the Society for the Preservation of Canada's Nuclear Heritage, thanks so much for putting together the NPD 60th anniversary event. Marvelous weather, we had plenty of visitors and made plenty of good contacts. And we all enjoyed the cake, freezies and BBQ! It was good to take some of our NPD artifacts home one last time, and to get a tour of what remains in turbine hall and control room.	**Response:** Thanks again for joining us! We (and all of the attendees!) really appreciated having SPCNH's artifacts and experts at NPD for the day.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			Yesterday Jim and I visited the Schoolhouse museum, to see their newly-renovated church and the refreshed nuclear display (with NRX, ZEEP and NPD models). We've promised not to steal them for our collection! Many thanks again for inviting us.	
2022 June 26	Ontario	Email	Hello I must congratulate all those involved with this Anniversary Party. Though I had to drive 7.5 hours to get there, I thoroughly enjoyed myself. The staff was excellent and welcoming to me and the tour brought back memories of the 19 years I spent working at NPD. Thank you all very much.	**No Action Required**
2022 June 25	Ontario	Email	My son and I attended the open house this afternoon and it was an amazing experience. My father, was with NPD from 1966 to 1975. He passed away a few years ago but I know he would have loved that we were there today. Our tour guide encouraged me to write and see if you had access to any pictures from that time frame that you could share with me. Also, a photographer took a photo of my son and I as we were leaving that I would love to have. Thank you for making this such a memorable day for us.	**No Action Required**

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 24	Ontario	Email	Please note that I have reviewed the Covid Questionnaire and all my responses are 'no' however I did not see where to indicate that response on the form. Regards.	**No Action Required**
2022 June 24	Ontario	Email	The Covid screening website for visitors doesn't seem to work, even on Microsoft Edge. I've completed the employee covid screening for attending and serving as a volunteer at the NPD Anniversary event on Saturday.	**No Action Required**
2022 June 23	Ontario	Email	Good Day. Thanks for the information. Looked at the COVID screening questionnaire. The overall response is NO. So looking forward to the visit. You may want to look into the following in the screening questionnaire: Two of the bullets show up in my mobile as well as on my laptop as below. New or worsening cough. Shortness of breath or difficulty breathing Both are missing the last letter.	**Response:** Thank you for letting us know about the issue with the list on a mobile device. I'll flag that for the team to address. **Action:** Share the issue with the Manager of Corporate Communications and CNL's webmaster.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 23	Ontario	Email	I cannot answer the questions...all answers are No.	**Response:** The visitor COVID-19 screen is a self-assessment so no physical selection is required. It is more of a self-check in to not come to CNL events if you might be experiencing symptoms or had contact recently with someone who has been having symptoms. See you Saturday!
2022 June 23	Ontario	Email	I tried to do the Visitor covid screening but there are no buttons to choose yes or no or to advance the page. Please advise.	**Response:** The visitor COVID-19 screen is a self-assessment so no physical selection is required. It is more of a self-check in to not come to CNL events if you might be experiencing symptoms or had contact recently with someone who has been having symptoms. See you Saturday!
2022 June 22	Ontario	Email	Please be informed that I cannot attend this together with my wife due to emergent assignment in Whiteshell Site recently. Thanks a lot for the opportunity and I look forward to another Open House schedule when we can attend.	**Response:** Thank you for letting us know.
2022 June 21	Ontario	Email	Thank you for the email. We have registered for the Group A tour group at 2.30. Regards.	**Response:** Thank you for clarifying, we have confirmed your tour time and group. Thanks.
2022 June 20	Ontario	Email	Thank you. My significant other will be with me, can she join the tour as well?	**Response:** There is a space available in your tour. Can you please provide me your partners name and an email address and I'll get them registered. **Action:** Registration for the NPD tour**.**

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 20	Ontario	Email	I need a reminder: what day / date is the Tour of NPD.	**Response:** The Open House is Thursdays Saturday June 25th. More details, including the address can be found on the event website: https://www.cnl.ca/event/60th-anniversary-open-house-at-npd/ You registers for the 2:30 tour. Your group is Group A and will be beginning at 2:30.
2022 June 20	Ontario	Email	I was very tardy on registering my father (and me to take him) for the NPD Open House and it appears that my friends Lauren and Margot are going to take pity and sign us up. What do you need from me in order to do this? **Follow-up:** The internet seems to be out in Deep all over, so I hope this gets to you. My father is 95 y/o and should be accompanied – preferably by me if possible? He was one of the physicists when the reactor went critical. The chance for him to be there again after 60 years would be very special to him. I thought the registration was closed on the 23rd of June so I didn't register until I knew he was up to going – my apologies for the inconvenience. Thanks.	**Response:** I just need the following info for you and your father • Full Name • Email • Address • Date of birth • Telephone number The tours are pretty full but I can get for one that has some availability if your dad would like one? Let me know asap. **Follow-up Response:** Got you guys all signed up and I've added you both to the 2:40 p.m. tour just in case your dad wants to go through the facility. No apologies needed, I built in a buffer for VIPs like your dad (and you).

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 20	Ontario	Email	Looking forward to this! Two questions for you: - For the tour, will there be significant stair climbing or elevator? - My Dad and I have several historical pictures of NPD being shipped to Rolphton from Peterborough that we have had enlarged and mounted on poster board (I had this done for a 50th anniversary event for the Canadian Nuclear Society), would there be any interest in us bringing these to the open house? Thanks, let me know.	**Response:** We are looking forward to having everyone at the site. For your father there are no elevators at site, and for the tours there will be some stair climbing involved. There are two flights of 18 stairs each with, handrail on both sides so lots to hold on to. It would be great to see the historic pictures from your family. The Society for the Preservation of Canada's Nuclear Heritage would likely be interested as well. I will connect you with them. Thanks.
2022 June 16	Ontario	Email	I have forgotten the date of the NPD open house. Please let me know.	**Response:** The date of the NPD Open House is Saturday June 25th. More information can be found of the events page: https://www.cnl.ca/event/60th-anniversary-open-house-at-npd/

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 14	Ontario	Email	Are invitee's allowed a guest? Can I forward this to other persons in the area who worked at NPD?	**Response:** Apologies we didn't get back to you sooner and thank you for your interest in the NPD Open House! You are welcome to forward to anyone who may be interested and guests are welcome. Note that each person attending the event must complete a registration form. Let me know if you have any further questions!
2022 June 07	Ontario	Email	Thank you for your invitation to the event recognizing this historical milestone. We would have very much liked to attend this event however we already have another engagement in another city for that same date & time; had we had more notice perhaps we could have been able to include this into my itinerary. Though we regret that we will not be able to attend, we wish you all a successful turnout & celebration of this important milestone.	**No Action Required**
2022 June 06	Ontario	Email	I am confirming that the Town of Deep River are willing to man a booth (with myself, councillor Hughes and maybe a few people from our Marketing Task Force) from approximately 11:30 - 2:30 or 3:00. We will have some swag to sell and some area promotional material to provide. I understand you can provide a table and *possibly* a tent, we would definitely appreciate a tent or sun shade if you have it. Please advise.	**Response:** We can provide a tent, too. Looking forward to seeing you and the Town out that day!

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2022 June 06	Ontario	Email	Please register my wife and I for the open house. Thank you.	**Response:** Apologies we didn't get back to you sooner. Thank you for your interest in the NPD Open House! Click the following link to go the Open House events page: https://www.cnl.ca/event/60th-anniversary-open-house-at-npd/ On this page you'll find another link on the right side that takes you to the registration form: https://www.cnl.ca/registration-for-the-60th-anniversary-open-house-at-npd/ Note, each person attending the event must complete a registration form. Let me know if you have any questions!
2022 May 09	Ontario	Email	I just submitted my registration for the Tuesday event. Is it too late?	**Response:** Good morning, Thank you for registering to participate for our May webinars on the Nuclear Power Demonstration (NPD) Closure Project, the Whiteshell Reactor – 1 (WR-1) Reactor Decommissioning, and Decommissioning at Chalk River Laboratories. Below, you can find the links to join each session on Tuesday, May 10, 2022. NPD/WR-1: Overview of the Environmental Impact Statements 10:00 a.m. – 11:00 a.m. EDT Click here to join: https://tryglobal.zoom.us/j/87357442792?pwd=MG5seXVLYm5TRXg0WEQyM0I3Q0ZsZz09

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				Password: 124634 Chalk River Laboratories: Decommissioning and Demolishing Legacy Facilities 11:00 a.m. – 12:00 p.m. EDT Click here to join: https://tryglobal.zoom.us/j/87995852838?pwd=K2pPdmxVa0draG5ENk5KMGNsRDFpZz09 Password: 457026 Simultaneous interpretation services will be available during the webinars. Please note that these sessions will be recorded and shared to CNL's YouTube channel. If you have any questions, do not hesitate to reach out. Thanks again and we look forward to the discussions.
2022 April 27	Ontario	Email	My sincere apologies – I had missed this e-mail. I was away April 12 and returned Apr 18 to a pile of emails (as usual), and missed it. Anyhow, we (Society for the Preservation of Canada's Nuclear Heritage Inc., SPCNHI) would be very pleased to participate in the 60th anniversary NPD Open house on Saturday 2022 June 25. Thank you for inviting us. We have a number of artifacts we could "bring home" to NPD for the day, including the nameplates from the turbine, an end fitting, the public-domain technical description, photographs, etc.	**Response:** We appreciate the unique aspects that SPCNH will be able to bring. With respect to the film, we hadn't considered showing it and that's a great idea. We'll look to incorporate it into one of the CNL's set ups. I'll reach out again in early May with an information package for participants. Please feel free to get in touch whenever.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			Unfortunately we don't have a 7-pin fuel bundle. I presume that CNL will be showing the 1963 film *N.P.D.* by Crawley Films of Ottawa.	
2022 April 18	Ontario	Email	The RBWM Historical Society which operates the School House Museum, would be very interested in participating in the open house at the NPD Site June 25.	**Response:** That's great to hear! We plan to have a bit of an information package ready for community participants in the next few weeks. This will have more details on what we can provide in terms of booth set up and the agenda for the day.
2022 April 12	Ontario	Email	Thank you for the kind invitation to participate in NPD's 60th birthday event June 25th. NPD had an illustrious role in the formation of Ontario as a clean energy powerhouse. I would be honored to participate and will discuss possible ways the Town might be able to participate in the day. I look forward to hearing more details as they are available.	**Response:** Thank you for the quick response! We plan to send a few more details out by the end of the month about the logistics for the event. We're also happy to work with the Town to see how you might like to be involved. Please feel free to reach out if you or Mr. Patterson would like to chat further about this in the next few weeks.
2022 April 14	Ontario	Email	Good morning, I am interested in attending in the NPD Ground water monitoring program update at 1:30 today. Is it possible to obtain the meeting details for this? Thank-you,	**Response:** Thank you for your interest in participating in the technical discussion for the NPD Closure Project's Draft Environmental Assessment Follow-Up Monitoring Program (EAFMP). Feedback from members of the public like yourself is essential to shaping a robust EAFMP for the project. To help you prepare, we have attached the presentation deck for the session. Please let us know by replying to this email if you would like a French version of this deck. Below, you can find the link to join the session.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				Groundwater Monitoring Program Thursday, April 14, 2022 1:30 p.m. – 3:00 p.m. EDT Click here to join. Password: 157663 If you have any questions, do not hesitate to reach out. Please note that these sessions will be recorded and shared to CNL's YouTube channel. Thanks again and we look forward to the discussions.
2022 April 11	Ontario	Email	I have registered XX to participate in your online events on April 12 & April 14 however he has not received any confirmations for the registration nor event details / link. Could you please resend the information so that I may include it onto his calendar.	**Response:** Registration for the NPD EAFMP technical sessions closes today at noon, shortly after that I will send an email with the links to join and the calendar details. Thank you for your interest in participating. **Action:** CNL provided a direct link to the webinar.
2022 April 9	Ontario	Email	Dear CNL, Technical Discussion Thursday, April 14, 2022 Groundwater Monitoring Program I'm trying to register for this event on your website, but when I enter my details (this email address, first name, last name) I get an error stating "Error… your entry appears to be spam". I also tried registering with my Algonquin College email address and	**Response:** The only thing I can think of is to try registering in a different browser. I've noted your email and when I send the links out this afternoon I'll include you in the list so no worries. Thank you for your interest in participating. **Action:** CNL provided a direct link to the webinar.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			received the same message. Do you have any suggestions on how else I can register?	
2021 December 03	Ontario	Email	Hi folks, Yes, I too want to express our sincere thanks for your explanation and tour of the NPD project – XX and XX were excellent tour guides! It really helped us put the project into context, and it was nice to meet your team. Also, lunch was delicious and much appreciated! Please pass along our thanks to other team members not on the email. Thanks to XX for extending the invitation to us. Thanks for the documents – as we review the information, I'm sure we will have some ongoing questions.	**Response:** Happy to sort out any ongoing questions.
2021 November 04	Ontario	Email	Thanks for your message and invitation – much appreciated. If possible, it would be best for us to have a brief site visit at NPD to see the location and better understand the proposed in-situ strategy. If we can find an agreeable date, we can drive up and meet with you say by late morning or early afternoon. It would probably be (3) from my water quality team. Wondering if one of these dates might work:	**Response:** I'll share these dates with the project team and we'll see which works best on our end. Once I hear back, I'll confirm the date and provide more details on visiting the NPD site. I understand from your email that you're interested in the location, would you like a tour inside the facility too? We can focus our discussion on water quality and protection of the river, if that is of interest. Are there any other topics you'd like to discuss at the visit? This will help us determine which members of our team should be there.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			• Friday, November 12th • Thursday, November 18th • Thursday, December 2nd Let me know what might work? Hopefully we can do it before the snow flies!	**Follow-up response:** The NPD Closure Project team has confirmed that December 2nd works best. We're looking at 11:00 a.m. until 2:00 p.m. for a meeting and facility tour. I'll send a calendar invite for you to share with your team. I'll also add a draft agenda for the visit and share details on coming to the NPD site, including CNL's security and safety protocols, within next few weeks. Thank you again for your interest!
2021 June 02	Ontario	Email	Good morning, My wife and I enjoyed the show last night. The number of birds did seem lower so we will be interested in the tally, when announced. Question Do the swifts leave the stack in the morning in the same way? That is, groups of them departing at the same time, or is it a much slower process? What time do they leave – sunrise? Comment Assuming this live viewing will be done again, it might be good to show a shot of what it looks like inside the chimney. Even a still photo would give people an idea.	**Action:** comment recorded**.**

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2021 June 01	Ontario	Email	My guess is 1147	**Action**: comment noted, no further action required.
2021 June 01	Ontario	Email	Thank you for the great virtual event! my guess is 500. It was great to be able to see it, even while living away from the local area.	**Action**: comment noted. **Follow-Up Response:** Thank you for attending our Virtual Chimney Swift Count Night. We just received the official count from our Environmental Protection team and it was 505, making you the winner! Are you located in the Chalk River region, so we can coordinate your prize? We have also posted the video to our YouTube at https://www.youtube.com/watch?v=-pmquX_sBzc.
2021 May 06	Ontario	Email	I have in my possession 2 things you might want. As an operator, I needed flowsheets of the many complex systems NPD required for safe operation. You are welcome to them. They are in a binder with dividers. Also, at some point lost in the past,I acquired a turbine/generator operating manual. It is an original AEI manufacturers manual, probably printed in the late 1950's/early 1960s. Both of these are in good condition, and might be for some use as historical items.	**Response:** I'm so sorry! We were doing an inbox review and we noticed I had not responded to this email. CNL has been working with a local organization in Deep River, called the Society for the Preservation of Canada's Nuclear Heritage (SPCNH). I think your items, or artefacts, would be of interest to SPCNH, if that is something you would be interested in. They are collecting and conserving documents, artefacts, memorabilia, and knowledge and associated with the history of the Canadian nuclear industry. At present we have shared some items and have a number of items on loan to the organization and we continue to work with them.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			Let me know what you thin and I will make arrangements to ship them.	I've copied my colleague, who has our contacts at SPCNH. Thanks again and please reach out whenever.
2021 February 18	Ontario	Email	I participated in the NPD webinar on Tuesday. In the Q&A at the end, Mr. Cox mentioned that CNL had issued a document responding to the question of whether in-situ decommissioning is consistent with IAEA guidance about the disposal of ILW. I would be very interested to see that document, if possible.	**Response:** Thank you for attending our webinar on the NPD Closure Project. The document that Brian was referring to was the attached paper, which CNL staff prepared for this year's Waste Management Symposium. Our next "round" of webinars are scheduled for April, so we'll be sure to keep you posted on the topics and speakers. Please do not hesitate to get in touch with Nicole or myself if you have further questions about this paper or the projects. Thanks again, Action: Attached a PDF document requested to email
2021 February 16	Ontario	Email	Good afternoon I watched the presentation earlier today on the NPD Project and I would like to receive a copy of the 3 follow-up monitoring plans. Additionally I have a question for the Project team "What inspection and maintenance plans are in place for the stack which will remain in place for the duration of the IC period?" It seems to me that there does need to be a plan as a concrete structure exposed to the elements is bound to degrade over this length of time. Also I would appreciate the link to the CNSC site where they stated that more details were required from the Project on the level of Indigenous engagement. The link was	**Response:** Thank you for attending our webinar this week! I've included links to the three follow-up monitoring plans below, as well as the link to the Impact Assessment Act (IAA) Registry, where you can find the Canadian Nuclear Safety Commission (CNSC) letter detailing the outstanding information they require from CNL with respect to Indigenous engagement. You also had the following question: "What inspection and maintenance plans are in place for the stack which will remain in place for the duration of the IC period?" CNL has prepared a surveillance plan for the IC period that includes monitoring and maintenance for the stack. These surveillance and maintenance activities will continue as long as the stack remains. The plan is as follows:

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			provided during the presentation, however I was not able to copy it all before it got moved off the screen. I look forward to this information. Regards	- Visual inspection from ground level for evidence of cracking, flaking or spalling on a monthly basis and after environmental events (e.g., high intensity storm or significant earthquake) - Full height structural integrity inspection (tiered, start with visual and, if required, progress to non-destructive and physical sampling, then analytical methods according to the NPD Life Management Plan) every five years or after a significant earthquake - Repair of concrete structure as needed based on inspections and clean and repair the drainage ports as required. Here are the three draft monitoring plans and the requested letter: Draft Effluent Monitoring Plan for the NPD Closure Project Draft Environmental Monitoring Plan for the NPD Closure Project Draft Groundwater Monitoring Plan for the NPD Closure Project IAA Registry (Note, the "List all Records" link is where you will find the CNSC letter, but the IAA's NPD Closure Project page has other information that may be of interest) Please don't hesitate to reach out if you need further information or would like to speak with any of our subject matter experts.
2021 February 16	Ontario	Email	Good Afternoon: I have just participated in today's NPD Closure Project webinar on Follow-Up Monitoring, and would like to take up the invitation to participate on future planned workshops on this topic.	**Response:** Thank you for your interest and for attending our webinar this week. I have forwarded your email to the NPD Closure Project team and we will be in touch with more details when they are available.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 December 16	Ontario	Virtual Open House Survey	I was the supervising Tech on the pool investigation. We were tasked to determine how far the radio nuclides had moved into the carbon lining beneath the stainless steel lining. After many weeks of work and analysis we had a very good over view of the depth of penetration into the graphite. Has this contamination, because there was, ever been considered in your proposal?	**Action:** Comments recorded, no response required
2020 December 15	Ontario	Virtual Open House Survey	**This was very informative. Thank you. I will tell others about this site.**	**Action:** Comments recorded, no response required.
2020 December 14	Ontario	Virtual Open House LiveChat	I'm interested in learning about decommissioning. Have you had a lot of visitors to the open house? Follow-up 1: In what areas is there consensus about how to proceed? Follow-up 2: Your research identified areas of concern; did it identify areas of agreement?	**Response:** Thanks for coming out! Yes, we've had quite a few browsing the open house this evening Follow-up 1 response: So right now the NPD Closure Project is in the midst of a federal environmental assessment This is essentially a regulated process that helps us plan how to proceed while incorporating feedback from the public, Indigenous peoples, and government agencies Follow-up 2 response: We have heard a keen interest from all stakeholders

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			Follow-up 3: The video introduction to the npd closure project has an effective cross section picture. **Thanks**	and Indigenous communities in protecting the Chimney Swift population that use the ventilation stack as a habitat at NPD during their migratory season.
2020 December 14	Ontario	Virtual Open House LiveChat	can you tell me more about the chimney swifts? Follow-up 1: wow! i'm a big fan of bird watching Follow-up 2: do the chimney swifts have any natural predators?	**Response:** Yes! The Chimney Swifts are a migratory bird that are considered a species at risk in Canada The NPD ventilation stack attracts a large population of Chimney Swifts to roost It is possibly one of the largest roosts in Canada Follow-up 1 response: CNL is working to maintain a habitat for the Swifts post decommissioning Through our work with a number of expert organizations and universities it was determined that retaining the ventilation stack was the best way to preserve their habitat. Follow-up 2 response: For more information check out our web page: https://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/chimney-swift-population/default.aspx
2020 December 9	Ontario	Virtual Open House LiveChat	I live nearby. Will this project impact fishing in the area Follow-up 1: Will monitoring of releases from the site be continued after closure and will the results be made public Follow-up 2: Can you explain project dose objectives and how they relate to background levels of radiation?	**Response**: Thank you for your question. We have carefully characterized the NPD reactor facility and modeled the movement of contaminants with time. The predicted doses to humans and the surrounding environment are much lower than our project dose objective and we that the river and fish will be protected. **Follow-up 1 response:** Yes. The project has developed follow-up monitoring that will continue throughout our institutional control phase (for at least 100 years). We currently share our environmental monitoring results with the public on our CNL web page and will continue to do so during and after the project.

Engagement Feedback NPD Closure Project: 2016-2024				
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				Follow-up 2 response: Local background radiation levels for the Ottawa Valley are approximately 1.5 mSv/yr. The CNSC limits the public's exposure to radiation doses from Nuclear facilities to 1 mSv/yr. The dose objective set by the project is 0.25 mSv/yr to account for the potential for cumulative sources. Our highest predicted dose for the project is only 0.0003 mSv/yr. This is approximately equal to the dose from an airport security scan or from eating a banana.
2020 December 09	Ontario	Virtual Open House Survey	Reducing the nuclear legacy liability is important. It is time to get the elephant in the room out in the open. Namely, getting well documented and regulatory-approved paths for the ultimate disposition of nuclear waste. In-situ is one path.	**Action:** Comment recorded, no response required.
2020 December 09	Ontario	Virtual Open House LiveChat	Hello What are the significant changes or updates between the 2020 march Draft EIS and the one that will be submitted next week? Any new analyses?	**Response:** Changes in our revised EIS submission address a number of small technical details that came from Public and Indigenous comments but primarily the change is to Chapter 7 on Indigenous Engagement. We have detailed a process of verification with each Indigenous community and provided a status with each community. We have also incorporated additional information from the traditional knowledge studies and added species of value for Indigenous groups We have also included comparison to Quebec Environmental criteria based on feedback received by NSDF.
2020 December 09	Ontario	Virtual Open house LiveChat	How are the samples obtained for testing? Is there a guideline for this? Follow-up 1: I was looking at the Ottawa River concentrations board. Follow-up 2: Is the demolition debris going into the NSDF eventually?	**Response:** Great question! I am thinking you're looking at our monitoring maps? **Follow-Up 1 response:** Hello, thank you for your question. For samples of Ottawa River water, grab samples are taken from a boat by our environmental monitoring branch. They follow specific field procedures for proper sample collection. Does this answer your question?

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				Follow-up 2 response: No, the demolished above grade structure will be placed within the NPD facility before grouting. No demolition debris will be going to NSDF. Thank you for your questions. Please feel free to leave feedback on your visit by clicking on the pencils on the table.
2020 December 12	Ontario	Virtual Open House Survey	Being unfamiliar with the project details, I found the information easy to understand and the links to additional articles fascinating. The only suggestion is if they were higher res or HTML, the text and images are a bit blurry when zooming in.	**Action:** Comment recorded, no response required.
2020 December 07	Ontario	Virtual Open House Survey	I am very supportive of the project and believe that this virtual consultation is an excellent idea.	**Action**: Comment recorded, no response required.
2020 June 25	Ontario	Email	Thank you for the opportunity to raise questions with respect to these two projects. Below is my question with respect to the NPD project. **Question for the CNL Webinar with respect to the NPD project.** Section 19(1) of CEAA (2012) lists the "Factor To Be Considered" in an Environmental Assessment conducted in	**Action:** Answer provided during the webinar follow-up email to all participants.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			accordance with the Act. One of those factors is: "*(g) alternative means of carrying out the designated project that are technically and economically feasible and the environmental effects of any such alternative means*" The Agency Document, "*Addressing "Purpose of" and "Alternative Means" under the Canadian Environmental Assessment Act, 2012*", defines "alternative means" as *"'Alternative means' are the various technically and economically feasible ways under consideration by the proponent that would allow a designated project to be carried out."* To quote from Section 2.2.1, "Purpose" as given in the 2020 version of the Environmental Impact Statement: *"The project proposes in-situ disposal, previously referred to as in-situ decommissioning, of the NPDWF, which isolates the contaminated systems and components inside the below-grade structure thus creating a waste disposal*	

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			facility on the NPD site." Given the purpose of the project described in Section 2.2.1 is "in-situ disposal", only the last of the four "alternatives" identified in the EIS (i.e. storage with surveillance, partial dismantling and removal, full dismantling and removal, and in-situ disposal), allows the "*designated project to be carried out*". **Question** – What other "in-situ disposal" alternatives were identified such that this purpose of the project can be carried out? If there were none, does CNL consider that its alternative means assessment conforms to Section 19(1)(g) of CEAA 2012?	
2020 June 25	Ontario	Email	To whom it may concern, I am submitting this question for CNL's Webinar today, June 25th. **This question is regarding the decommissioning of the NPD reactor in Rolphton** Suggestion 6 as documented in the IAEA's recent Integrated Regulatory Review Service (IRRS) review of Canada's nuclear regulator (the CNSC), states:	**Action:** Answer provided during the webinar follow-up email to all participants.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			S6. CNSC should consider revising its current and planned requirements in the area of decommissioning to align with the IAEA guidance that entombment is not considered an acceptable strategy for planned decommissioning of existing nuclear power plants (NPPs) and future nuclear facilities. In its response, the CNSC (on behalf of the Government of Canada) accepted that suggestion, and included this statement: *While the current text of draft REGDOC-2.11.2, Decommissioning, restricts the use of in situ decommissioning to uranium mines and mills, exceptional circumstances and legacy sites, the CNSC will include further text to explicitly reflect that in situ decommissioning should not be considered an acceptable strategy for planned decommissioning of existing NPPs and future nuclear facilities other than uranium mines.* **What alternative to entombment is CNL considering for the NPD reactor if in-situ disposal is deemed unacceptable by the Government of Canada?**	

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 June 10	Ontario	Email	Thank you for your kind offer to provide further information on the NPD Closure Project. Would you be able to provide an electronic copy of CNL's license application? This is shown in Table 2 of Appendix A of the Administrative Protocol for the project as having been submitted on September 29, 2017. I'd be grateful if you could also provide documentation for two other CNL reactor decommissioning projects: For the In Situ Decommissioning of the Whiteshell Reactor #1 project, the licence application submitted on September 1, 2017. For the amendment to proceed to the next step of decommissioning of the Douglas Point reactor, the following documents: • Environmental Review for Douglas Point Waste Facility -- Phase 3 Decommissioning, 22-03710-ENA-001, Revision 0, July 2019 (listed as the third of four enclosures on page 3 of CNL's licence	**Response:** Thank you for your patience. Please find links to the requested material below. For the NPD Closure Project: • 140-CNNO-17-0001-L REV 0 - Application for Licence Amendment to Proceed with Decommissioning of the Nuclear Power Demonstration Waste Facility • 64-CNNO-17-0014-L REV 0 -Supplemental Information for CNL's Application for Licence Amendment to Decommission the Nuclear Power Demonstration Waste Facility For WR-1: • WLD-CNNO-17-0019 Application for Licence Renewal of the Nuclear Research and Test Establishment Decommissioning Licence for the Whiteshell Laboratories For Douglas Point: • Environmental Review for Douglas Point Waste Facility - Phase 3 Decommissioning, 22-03710-ENA-001 • Environmental Risk Assessment for Douglas Point, 22-07000-ASD-001 • Douglas Point Waste Facility Storage with Surveillance Plan, 22-00960-SWS-001 • Douglas Point Waste Facility Storage with Surveillance Activities & Schedules, 22-00960-SWS-002 Please do not hesitate to reach out if there are any issues with accessing these documents. As well, we are happy to provide further relevant reference material upon request.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			amendment application to CNSC of 18 July 2019) • Environmental Risk Assessment for Douglas Point, date? (listed as the last of four enclosures on page 3 of CNL's licence amendment application to CNSC of 18 July 2019) • Douglas Point Waste Facility Storage with Surveillance Plan, 22-00960-SWS-001, Revision 2, March 2015 (listed as Ref. 9 on page 3 of CNL's licence amendment application to CNSC of 18 July 2019) • Douglas Point Waste Facility Storage with Surveillance Activities & Schedules, 22-00960-SWS-002, Revision 0, July 2019 (listed as Ref. 10 on page 3 of CNL's licence amendment application to CNSC of 18 July 2019) All four of the above documents are included among the enclosures (3 and 4) or references (9 and 10) listed on page 3 of CNL's licence amendment application to CNSC of 18 July 2019. Thanks again, and best wishes,	

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 June 02	Ontario	Email	My girls guess is 2017 Chimney Swifts. Thanks for the cool virtual count	**Action:** Comment recorded, no further action required.
2020 June 02	Ontario	Email	1,863.	**Action:** Comment recorded, no further action required.
2020 June 02	Ontario	Email	1977 Chimney Swifts entered the stack. My guess. Thanks for posting the video. Cool learning experience for my girls.	**Action:** Comment recorded, no further action required.
2020 June 02	Ontario	Email	My kids guesses are: 1250 swifts 1401 swifts 1370 swifts Thanks for a fun thing to do!	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	Thank you for your messages and your offer to coordinate a meeting. Prior to considering a meeting with CNL, we would very much appreciate receiving (by email) CNL's responses to Old Fort William Cottagers' Association's (OFWCA) comments on the 2017 NPD draft EIS. We understand that the CNSC has returned	**Response:** We would provide our draft responses prior to meeting with the OFWCA to help facilitate discussion. This discussion could also enable us to can make additional revisions to these responses on the OFWCA's comments, to ensure each of your organization's comments is addressed fully. With respect to the project's recent submission of revised draft Environmental Impact Statement (EIS) to the CNSC and subsequent completeness check, more information can be found on the Registry, including a letter to CNL and the Appendix A - completeness check table. For clarification on the steps in the Environmental Assessment process, you

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			to CNL the revised draft EIS due to insufficient Information and that the federal and provincial review team was unable to proceed with a review. Would you please forward to us this notice or information. We would like some clarification about the next steps. When will the revised draft EIS be re-submitted to the CNSC? And when will an amended revised draft EIS be made available to the public? As stated previously, OFWCA strongly objects to any decommissioning proposal for the NPD closure that contravenes IAEA safety standards. According to the IAEA, entombing very hazardous radioactive materials in concrete and grout should only be considered in an emergency. Another serious concern is the location - the eventual abandonment of radioactive materials that will remain hazardous for many thousands of years right beside the Ottawa River is totally unacceptable. Something will inevitably go wrong and the river will be contaminated. Millions of Canadians depend on the Ottawa River. Please do notify us of any future developments with the environmental assessment review.	may find the Administrative Protocol between CNL and the Canadian Nuclear Safety Commission (CNSC) for the NPD Closure Project to be helpful. Looking at Table 1 in Appendix A of the Protocol, we are currently in step 9. Step 13 in Table 1 is where we submit the responses to public comments, including the responses to the Old Fort William Cottagers' Association (OFWCA) comments, to the CNSC. Steps 15-19 detail the submission of the final EIS to the CNSC. This final EIS would incorporate the feedback on the revised draft EIS. CNL will make the final EIS publicly available in both official languages. Note that there are no dates associated with these later phases of the Environmental Assessment process yet. Currently, the earliest point in time that the public hearing on the NPD Closure Project is anticipated to occur is late 2021. However, the process is flexible to adapt to ensure regulatory, public and Indigenous feedback is sufficiently incorporated, as well as external forces, such as the current pandemic. We are pleased to hear that the OFWCA is reviewing the revised draft Environmental Impact Statement and if your organization has specific questions from your review, we would be happy to discuss. We acknowledge that the OFWCA is particularly concerned with international standards on decommissioning and nuclear safety. With that in mind, the OFWCA may find our webinar from June 2019 of interest, as we discuss how the NPD Closure Project aligns with national regulatory requirements and international guidance and best practice. Please do not hesitate to reach out again to coordinate a meeting. Perhaps we could coordinate a virtual meeting at some point in July or early August? Take care,

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 June 01	Ontario	Email	Good Morning It has been a few weeks since the notice below was distributed. Subsequently, I have been going through the CNSC completeness check table, and I am having difficulty reconciling that table with the CNSC's two consolidated comment tables: • *CNL Table: Consolidated Public and Indigenous Groups' Comments on the Nuclear Power Demonstration (NPD) Closure Project Draft EIS*, (CNSC Document number 122321E), and • *Federal and Provincial Technical Review Comment Table on the Draft Environmental Impact Statement for the Nuclear Power Demonstration Closure Project* (CNSC Document number 122323E) Please provide completed copies of these two tables that would have been submitted to the CNSC, and which would include CNL's responses to the comments.	**Response:** Reviewing Canadian Nuclear Safety Commission (CNSC) Document number 122323E that you have highlighted in your question, we understand your confusion in reconciling the numbering of CNSC Doc 122323E with the completeness check table. The Province of Quebec comments were received after the initial table was built and were initially numbered 227-280 and then inserted in the applicable sections of the master list. File 122323E has the Quebec comments inserted where they belong and then has renumbered comments sequentially. CNL and the CNSC will work to update the completeness check posting to reconcile the comment numbering. In the meantime, we have attached a file to help match up comments if you want to further review the results of the completeness check. Note that the completeness check is specific to the Federal and Provincial Technical Review (CNSC Document number 122323E). For both the Federal and Provincial Technical Review Comments and the Public and Indigenous Comments, final versions of tables will be made public online via the CNSC. At this point, we are offering meetings with intervenors to discuss our responses to their comments. We would be happy to meet with you to discuss your comments on the draft Environmental Impact Statement (EIS). A virtual meeting could be coordinated in the next little while and we would provide our draft responses to your comments in advance of any meeting. Please do not hesitate to reach out again. **Action:** Attached document *Correspondence of numbers in CNSC Doc 122323E and CNSC Doc 6276237.*

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 June 01	Ontario	Email	Hi there, My family watched the Chimney Swift count event on YouTube. Here are our guesses on how many birds went in the stack: 1300 800 1753 1111 1000 Thanks for giving us the opportunity to witness again,	**Action:** Comment recorded, no further action required
2020 June 01	Ontario	Email	Swift count guess = 999. Please pass along my congratulations to all involved in a well conceived, informative, and well executed presentation.	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	Estimate 501 birds. Thanks for hosting!	**Action:** Comment recorded, no further action required.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 June 01	Ontario	Email	Good evening, Our best guess for the chimney swift count is: 1175 Thank you so much, we enjoyed watching as a family!	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	2401	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	I guess about 1922	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	Thank you for televising the amazing phenomenon. Our guess is 1150 for the number of birds that entered the stack. Thank you	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	My guess is 1232.	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	I estimate 1365.	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	1280	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	1550 chimney swifts is my guess.	**Action:** Comment recorded, no further action required.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 June 01	Ontario	Email	520	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	I think there will be 875 swifts tonight.	**Action:** Comment recorded, no further action required.
2020 June 01	Ontario	Email	My guess would be 2228 birds.	**Action:** Comment recorded, no further action required.
2020 May 31	Ontario	Email	Good Evening. I look forward to this Virtual phenomenon! My guess for the number of Chimney Swifts is 1,649.	**Action:** Comment recorded, no further action required.
2020 May 28	Ontario	Online feedback form	Hello, As you're hopefully aware, we raised a motion at Queen's Park regarding including SMRs and nuclear energy in Ontario's clean energy future. One of the members opposing the motion claimed that there is continued leakage from the NPD in Rolphton, resulting in thousands or liters of contaminated being dumped into the Ottawa River. I can't find evidence of this statement and I have looked though the sampling results on the amounts of Tritium in the Ottawa river around both the NPD and CRL provided by the CNSC sampling. I was wondering if you have any knowledge of where this claim came from. Thank you	**Action:** Followed up with a phone call and indicated a written response would be provided.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 May 21	Ontario	Email	I would like to know what information the CNSC said has to be added to the recent CNL submission on NPD, and I am still interested in CNL's responses to the public comments on the 2017 EIS. Incidentally, I live about a one-minute walk from the Morison Campus and am happy to come in for a chat just about any time. Say hello to everybody there for me.	**Response:** Thanks for getting in touch! CNL is currently preparing responses to public comments as one of the steps in the Environmental Assessment process. I think you may be familiar with the Administrative Protocol between CNL and the Canadian Nuclear Safety Commission (CNSC) for the NPD Closure Project, which details the steps in the process. If you look at Table 1 in Appendix A of the Protocol, we're currently in step 9. With respect to the project's recent submission of revised draft Environmental Impact Statement (EIS) to the CNSC, more information can be found on the Registry, including a letter to CNL and the Appendix A - completeness check table. We are pleased to hear of your interest in having a chat, but I think you may be closer to Morison than most of us at the moment. Perhaps you would be interested in having a virtual chat? We've had virtual meetings successfully using our Skype for Business platform and I'd be happy to coordinate a mutually convenient time to discuss your comments on the draft EIS and whatever else you may be interested in regarding the NPD Closure Project. I hope you've been enjoying the sunshine and I'll pass along your regard to the team!
2020 May 08	Ontario	Email	Thank you for your message regarding the revised draft EIS for the NPD Closure Project. We will be very interested to review this Revised EIS. Would you please forward to me CNL's responses to Old Fort William Cottagers' Association comments on the 2017 draft EIS for the NPD Closure Project. I do not recollect receiving these responses previously. We would like to be able to	**Response:** Thank you for your ongoing interest in the NPD Closure Project. The revised draft Environmental Impact Statement (EIS) is available here. Please note that CNL is currently preparing responses to public comments as one of the steps in the Environmental Assessment process. Details of these steps can be found in the Administrative Protocol between CNL and the Canadian Nuclear Safety Commission. CNL would appreciate the opportunity to share with you our draft responses to your comments on the draft EIS ideally in a one-on-one meeting to gain feedback as to whether we have addressed your concerns. We would be happy

Engagement Feedback NPD Closure Project: 2016-2024				
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			review the revised draft EIS and the responses to our comments on the 2017 EIS. Please be specific in letting us know in what way OFWCA's comments have effected any changes in CNL's proposal. OFWCA members are very concerned by CNL's proposal. OFWCA's main concerns and objections are that in-situ decommissioning - entombing very hazardous radioactive materials in grout and concrete would contravene IAEA safety standards (according to IAEA this should only be done in an emergency - not for planned decommissioning) and abandoning radioactive materials so close to the Ottawa River would certainly not be acceptable. We want to protect the Ottawa River. Look forward to hearing from you. Hope you are doing well during these difficult times.	to coordinate a mutually appropriate time. Note that this meeting would most likely need to occur virtually. Note that the comments and final responses will be posted by the Canadian Nuclear Safety Commission (CNSC) late in 2020. Please do not hesitate to reach out if you have any issues with accessing this document or you would like further information or documents or have any questions.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 May 08	Ontario	Email	I am available anytime :)	**Response:** Thank you for your patience. I've reached out to the project team and we would like set up a Skype for Business meeting with you on Monday, June 15 at 10:00 a.m. if you are available. The meeting would include myself and two other project team members best able to speak to your comments: Environmental Analyst with the project and Manager of Regulatory Affairs for the project. I will send you a meeting request once we have confirmed this date and time. We will share our draft responses to your comments on the draft Environmental Impact Statement (EIS) in advance. If you have not used the Skype for Business platform before, we may want to set up a trial of the Skype for Business to ensure our meeting runs smoothly. It can be less straightforward than the standard Skype platform. Please do not hesitate to let me know if you have any questions or suggestions related to the meeting. We are also happy to provide any further information you would like.
2020 May 08	Ontario	Email	Can you please send me the links to the revised EIS, Technical Supporting Documents and responses to federal and provincial comments for NPD. What is the status of all the CNL responses to the comments from the public on the earlier version of the EIS?	**Response:** Thank you for your interest in the NPD Closure Project's revised Environmental Impact Statement (EIS). In response to your request please see links to the documents and a status update below. **Links to the revised draft EIS and Technical Supporting Documents:** Revised Draft Environmental Impact Statement Balance of Site Characterization Report Alternative Means Assessment, REV 1 Decommissioning Safety Assessment Report, REV 1 EIS Supplementary Documentation, REV 1 Greenhouse Gas Emissions TSD, REV 1 Groundwater Modelling TSD, REV 0 Geosynthesis TSD, REV 1

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				Indigenous Engagement Report, REV 3 Post Closure Safety Assessment Report, REV 0 Socio-Economic Assessment, REV 0 Stakeholder Engagement Report, REPT 001, REV 0 Stakeholder Engagement Report, REPT 002, REV 0 Ecological Risk Assessment Report, REV 1 Archaeological TSD, REV 0 Chimney Swift Studies TSD, REV 0 Ecological Land Classification Report, REV 0 As per the Administrative Protocol between CNL and the CNSC, the responses to Federal and Provincial comments will be available through the Canadian Nuclear Safety Commission (CNSC) in late 2020. CNL is completing their preparation of responses to public comments. The public comments will be submitted to the CNSC in late summer 2020. Warm regards
2020 May 08	Ontario	Email	I would be pleased to discuss my comments on the EIS for the NPD closure project. Best regards	**Response:** Good afternoon, Thank you for your continued interest in the NPD Closure Project. I would be happy to coordinate a meeting with you and a few of our subject matter experts to discuss your comments on the draft Environmental Impact Statement (EIS). What is your availability between June 15, 2020 and June 26, 2020?

Engagement Feedback NPD Closure Project: 2016-2024				
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2020
May 08
	Ontario	Email	Further to my email of earlier this morning, and now having reviewed the CNL site and the IAA registry, we have some additional questions:
			
			• in the revised timeline posted at the Current Status is described as "CNL addressing responses to comments on draft EIS and preparing supplemental studies requested:
			  ○ presumably this is in reference to the 2020 revised draft EIS; can you please confirm that is the document being referenced?
			  ○ have comments on the revised draft EIS been received from CNSC? If so, on what date? If not, does CNL have an anticipated date?
			• we have not been able to locate the revised draft EIS (2020) on the CNL site, or the technical supporting documents referenced in your email; the draft posted at https://www.cnl.ca/site/media/Parent/NPD_Draft_EIS.pdf is dated 2017; when do you anticipate
				Response: see below

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			posting the March 2020 version on the CNL web site? • Similarly, we have not been able to locate the revised Technical Supporting Documents on the CNL site, or the technical supporting documents referenced in your email; when do you anticipate posting the technical supporting documents for the revised draft EIS (March 2020 version) on the CNL web site? Thank you for your attention and assistance.	
2020 May 08	Ontario	Email	Thank you for your communications with respect the revised Environmental Impact Statement (EIS) for the Nuclear Power Demonstration (NPD) Closure Project. We would appreciate receiving the following: • a hard copy of the revised EIS for the NPDP • digital copies of the revised EIS and the Technical Supporting Documents and responses to the Federal and Provincial comments on the draft EIS, provided on a USB	**Response:** Thank you for your patience and ongoing interest in the NPD Closure Project's revised Environmental Impact Statement (EIS). We appreciate Northwatch's continued participation in the Environmental Assessment for the project. We note you have requested the following: • "a hard copy of the revised EIS for the NPDP" • "digital copies of the revised EIS and the Technical Supporting Documents and responses to the Federal and Provincial comments on the draft EIS, provided on a USB in a format that is searchable, with text that can be copied and pasted (for reference in our reviews; all copies sections or quotes will be referenced to the source document)" • " urls for each of the revised EIS and the Technical Supporting Documents and responses to the Federal and Provincial comments on the draft EIS"

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**

			• in a format that is searchable, with text that can be copied and pasted (for reference in our reviews; all copies sections or quotes will be referenced to the source document)
			• exact urls for each of the revised EIS and the Technical Supporting Documents and responses to the Federal and Provincial comments on the draft EIS
			• a technical contact for each of the revised EIS and the Technical Supporting Documents to whom we may direct specific questions (email preferred)
			
			After receipt and review of these documents, we will consider with our technical team whether a meeting or discussion might be helpful at this time.
			
			Please arrange delivery of the hard copy of the revised EIS and the USB of the additional documents to: Northwatch, The Annex, 1450 Ski Club Road, North Bay, Ontario, P1B 8H2
			
			Thank you for your attention and assistance.
				• "a technical contact for each of the revised EIS and the Technical Supporting Documents to whom we may direct specific questions (email preferred)"
				
				As well, supplementary correspondence from Northwatch asked for clarification on the following:
				
				• "in the revised timeline posted at the Current Status is described as "CNL addressing responses to comments on draft EIS and preparing supplemental studies requested:"
				  ○ "presumably this is in reference to the 2020 revised draft EIS; can you please confirm that is the document being referenced?"
				  ○ "have comments on the revised draft EIS been received from CNSC? If so, on what date? If not, does CNL have an anticipated date?"
				• "we have not been able to locate the revised draft EIS (2020) on the CNL site, or the technical supporting documents referenced in your email; the draft posted at https://www.cnl.ca/site/media/Parent/NPD_Draft_EIS.pdf is dated 2017; when do you anticipate posting the March 2020 version on the CNL web site?"
				• "Similarly, we have not been able to locate the revised Technical Supporting Documents on the CNL site, or the technical supporting documents referenced in your email; when do you [anticipate] posting the technical supporting documents for the revised draft EIS (March 2020 version) on the CNL web site?"
				
				In response to these inquiries and information requests, please see the following table:

Engagement Feedback NPD Closure Project: 2016-2024					
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**	
				Request/Inquiry	**Response**
				"a hard copy of the revised EIS for the NPDP"	We are having the revised draft EIS sent from a third party printing service to the address supplied. The tracking number is 0311324000520058 and it was sent via Canada Post.

Engagement Feedback NPD Closure Project: 2016-2024					
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**	
				"digital copies of the revised EIS and the Technical Supporting Documents and responses to the Federal and Provincial comments on the draft EIS, provided on a USB in a format that is searchable, with text that can be copied and pasted (for reference in our reviews; all copies sections or quotes will be referenced to the source document)"	We have provided digital PDF copies via separate URL links to each Technical Support Document, as well as the revised draft EIS, below, as requested. As per the Administrative Protocol between CNL and the Canadian Nuclear Safety Commission the responses to Federal and Provincial comments will be available through the Canadian Nuclear Safety Commission (CNSC) late in 2020. We will notify Northwatch once these have been posted online. Please note CNL does not use USBs for security purposes.

Engagement Feedback NPD Closure Project: 2016-2024					
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**	
				" urls for each of the revised EIS and the Technical Supporting Documents and responses to the Federal and Provincial comments on the draft EIS"	Separate URL links to the revised EIS and the Technical Support Documents are available below. The responses to Federal and Provincial comments will be made available through the Canadian Nuclear Safety Commission (CNSC) late in 2020. We will notify Northwatch once these have been posted online.
				"a technical contact for each of the revised EIS and the Technical Supporting Documents to whom we may direct specific questions (email preferred)"	Questions on any part of the revised EIS and or on the Technical Support Documents can be made through contact with myself ,through the Manager NPD Regulatory Approvals.

				"in the revised timeline posted at the Current Status is described as "CNL addressing responses to comments on draft EIS and preparing supplemental studies requested: ○ presumably this is in reference to the 2020 revised draft EIS; can you please confirm that is the document being referenced? ○ have comments on the revised draft EIS been received from CNSC? If so, on what date? If not, does CNL have an anticipated date?"	The current stage in the NPD Regulatory timeline covers multiple steps in the Administrative Protocol so it includes addressing comments on the 2017 draft EIS along with any comments on the 2020 revised draft EIS from the CNSC and other federal/provincial reviewers. CNL has recently (2020 March) submitted the revised draft EIS, updated and new Technical Supporting Documents and responses to Federal and Provincial comments (Step 9 – Appendix A of the Administrative Protocol). The CNSC has performed a completeness check and has identified that additional work by CNL is required before the 90 day review by Federal and Provincial agencies can commence (Step 10

					– Appendix A of the Administrative Protocol). The findings of the completeness check will be posted on the public registry. Because the 90-day review period has not begun, CNL does not have an anticipated date to receive comments from the CNSC (completion of Step 10). In parallel CNL is preparing responses to public comments in support of Step 14. CNL is reaching out to the public and Indigenous communities to determine whether their comments on the draft EIS are adequately incorporated into the revised EIS. This dialogue along with any additional comments that come from the review by federal and provincial commenters (Step 11) will help shape

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<tr><th colspan="5">Engagement Feedback NPD Closure Project: 2016-2024</th></tr>
<tr><th>Date</th><th>Province</th><th>Feedback Mechanism</th><th>Comment/Inquiry</th><th>Disposition/Response</th></tr>
<tr><td></td><td></td><td></td><td></td><td>
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<tr><td></td><td>the final EIS, to be submitted in late 2020, termed “Winter 2020” on the timeline.</td></tr>
<tr><td>“we have not been able to locate the revised draft EIS (2020) on the CNL site, or the technical supporting documents referenced in your email; the draft posted at https://www.cnl.ca/site/media/Parent/NPD_Draft_EIS.pdf is dated 2017; when do you anticipate posting the March 2020 version on the CNL web site?”</td><td>The revised draft EIS and Technical Supporting Documents can be found through the URL links below.

All of these documents are available upon request by any member of the public.</td></tr>
<tr><td>“Similarly, we have not been able to locate the revised Technical Supporting Documents on the CNL site, or the technical supporting documents referenced in your email; when do you anticipate posting the technical supporting documents for the revised draft EIS (March 2020 version) on the CNL web site?”</td><td>The Technical Supporting Documents can be found through the URL links below.

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Requested Information:
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Engagement Feedback NPD Closure Project: 2016-2024				
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				Revised Draft Environmental Impact Statement **Technical Supporting Documents:** Balance of Site Characterization Report Alternative Means Assessment, REV 1 Decommissioning Safety Assessment Report, REV 1 EIS Supplementary Documentation, REV 1 Greenhouse Gas Emissions TSD, REV 1 Groundwater Modelling TSD, REV 0 Geosynthesis TSD, REV 1 Indigenous Engagement Report, REV 3 Post Closure Safety Assessment Report, REV 0 Socio-Economic Assessment, REV 0 Stakeholder Engagement Report, REPT 001, REV 0 Stakeholder Engagement Report, REPT 002, REV 0 Ecological Risk Assessment Report, REV 1 Archaeological TSD, REV 0 Chimney Swift Studies TSD, REV 0 Ecological Land Classification Report, REV 0 Please do not hesitate to reach out if you have any issues with accessing these documents or you would like further information or have any questions. Further to your email, whenever your organization is ready to meet, CNL would appreciate the opportunity to share with you our responses to your comments on the draft EIS. We would be happy to coordinate a mutually appropriate time. Note that this meeting would most likely need to occur virtually.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2020 May 07	Ontario	Email	Thanks for the invitation. I'll think about it and let you know. I'm pretty busy with other things at the moment so it would be hard to find the time to review the revised EIS. Is there a date for the licensing hearing yet? Or a tentative date?	**Action:** Comment recorded, further follow up required.
2020 February 26	Ontario	Email	Good morning, Would it be possible to get the electronic version of both presentations from this morning's briefing at the DR Library? I would like to circulate it to the other members of my Council.	Response: As requested, please find attached the NSDF and NPD presentations from the 2020 February 26 Breakfast Briefing. **Action:** PDF versions of presentations attached
2019 December 13	Ontario	Online Feedback Form	You invited feedback on Wednesday's NDP/NSDF projects webinar. I found holding the webinar in the daytime was fine for me as a retiree, but I imagine that many people who have normal working schedules would prefer an evening session. I couldn't stay for the entire hour and eight minutes due to a prior commitment, so I appreciated the chance to replay the webinar today, particularly the Q&A at the end.	**Response:** Thank you for the feedback on the timing of the webinar. We agree the ability to archive assists in sharing information with interested stakeholders who may not be able to join the webinar live.
2019 December 10	Ontario	Webinar	Which EIS or EIS's are to be released next week?	**Action:** Question was addressed in the latter part of the webinar presentation.
2019 December 10	Ontario	Webinar	How did you verify estimates of non-radiological contaminants (lead, PCBs, etc.)	**Response:** So during the presentation I showed you a couple sampling plans for the reactor hall. That was one room, one location in the facility; precedent is repeated throughout the facility, and effectively that resulted in almost 200 samples of the building infrastructure. These are then sent for lab analysis, not

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				only for radiological content but also for PCBs, heavy metals, lead. In addition to all that, we also took judgemental samples of all the paint, coverings in the facility, and anything else that judgementally stood out is required samplings. As a result, I think we got pretty robust coverage of the whole facility.
2019 December 10	Unknown	Webinar	How much (roughly, of course) of the NPD and NSDF technical work was performed by CNL staff versus contractors?	**Response:** Touching on topic we talked about today - characterization, we utilized contract support to help us prepare the characterization plan as well as take the samples for the reactor itself. Then we used CNL staff for the remaining characterization activities as well as writing the reports. We also used labs, sub-contracted labs in order to do some of the sample analysis. Looking at other technical work, we are working closely with Arcadis to prepare a technical and environmental assessment documents, that's a joint effort by both parties. As we look into the future we'll be self-performing some for the demolition work and r outsourcing or contracting some of the demolition work such as the concrete cap and the engineered barrier.
2019 December 10	Ontario	Webinar	Did you succeed in getting any pressure tube samples?	**Response:** We did. As we said we engaged a contractor in this task and they did very well. They obtained almost all the samples we asked for or we strived for. The pressure tubes if you think about it are the last samples as you drill through that concrete. So, you've traversed various parts of the reactor, you've got the two shells of the calandria, the calandria tubes, the steel vault liner and the concrete - and it was at this point we encountered difficulties. We did obtain two individual samples of the pressure tube, but that was the gap that I spoke about and we did use additional lines of evidence from pressure tubes removed in the 80's in order to verify against the calculated inventories. We did fill that gap.
2019 December 10	Ontario	Webinar	What is the difference between potential and possible?	**Response:** The Class III areas were designated Class III because they had a lesser potential for cross-contamination from the Class I impacted areas. The Class II I think I used the word possible, but it really is just a graded approach. It is still likely but less likely than the Class III and hence it drives the sampling requirements as such.
2019 December 03	Ontario	Email	I would appreciate copies of all the documents referred to in this announcement before the webinar. That	**Response:** The content for the webinar is not available in advance as it is an announcement. I would be happy to send you the documents and supporting information on Tuesday afternoon and you can let me know if you have any

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			way, I would be able to ask informed questions and be truly engaged in this process.	further questions.
2019 September 25	Ontario	Email	Great. Thanks for your rapid response, Nicole. I'm sorry to miss it, but pleased that the recording will be available.	**Action:** Comment recorded.
2019 September 24	Ontario	Email	Thank you for this invitation. I would have liked to participate, but the combination of very short notice and the webinar coinciding with travel to Manitoba to participate in the licensing hearing for CNL's Whiteshell mean that I will be unavailable. If there is a recording, I would appreciate receiving a link.	**Response:** All of our webinars are recorded and posted to our CNL YouTube channel. If you have any questions after viewing, do not hesitate to send them to communications@cnl.ca
2019 August 20	Ontario	Verbal	(Request for water testing at local resident's property)	**Action:** Water was tested by CNL staff and results were provided. See correspondence from 2019 August 20.
2019 July 31	Unknown	Email	I would like to register both my husband and myself. Is there a form to fill out?	**Response:** Thank you for your recent email inquiry. Registration is required to attend the NPD Open Houses on August 01 or 08. www.cnl.ca/npd-oh
2019 July 20	Unknown	Email	I am putting together a report on decommissioning and waste management in Canada and am trying to find publicly available information about the program at Chalk River. There is quite a lot of information about NPD, Whiteshell etc ...but all the website says about Chalk River is that there is a Comprehensive Preliminary Decommissioning Plan...but there is no	**Response:** I would recommend that you visit Canadian Nuclear Laboratories (CNL) Vendor Portal: https://www.cnl.ca/en/home/vendor_portal/default.aspx CNL uses this portal as a means of sharing information about CNL's procurement system, including RFP's that have been recently released, contract awards and expectations of those companies that work on CNL sites. Additionally, it should be noted that the majority of the decommissioning work at CRL is self-performed and the best source of information for our current and recent work completed can be found on our social media sites and our news releases webpage. Facebook: http://www.facebook.com/CanadianNuclearLaboratories LinkedIn: https://www.linkedin.com/company/9191967

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			access to it. Can you recommend anyone that I might talk to and/or any papers that might exist the summarize the current state. I am also interested in which contractors are doing what at the moment...if thtat is information that CNL shares nowadays...I know that often they are the subject of press releases. I am hoping this work gets me to to the D&WM conference later in the year...sorry I didn't make it to Arizona!	YouTube: www.youtube.com/c/CNLCanada CNL News Releases: https://www.cnl.ca/en/home/news-and-publications/news-releases/default.aspx If you have any questions or require additional information, do not hesitate to contact us at communications@cnl.ca.
2019 June 27	Unknown	Email	Thank you for your recent e-mail with the information on the bird count and for the video. We also want to thank you to opening the NPD evenings to the general public so that we can watch the chimney swifts in their evening ritual. We really enjoy these evenings. We have also had the opportunity to see the chimney swifts going into the stack at the Pembroke Memorial Center. We want to thank you for letting us know about the swifts using this stack. We would really appreciate staying on your e-mail list, so we will know next year when NPD is open again to the general public.	**Response:** Thank you for your recent email. We would be happy to add you to our email distribution list and look forward to seeing you soon at the NPD site.
2019 June 17	Ontario	Webinar	Why was GSR Part 6 (with the IAEA Safety Requirements for Decommissioning, and the statements that entombment is only to be considered under "exceptional circumstances") not referenced in the NPD EIS?	**Response:** Some of the improvements that we are making to the EIS in response to comments from the public is putting more detail about IAEA standards, specifically about GSR Part 6, and how we are meeting key principles of decommissioning as well as following all the waste disposal requirements for best practice from the IAEA. So that will be addressed in our revised EIS, but we are working on the revision of that document now. In addition to the

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				Environmental Impact Statements, both projects follow IAEA guidance is on the preparation of safety case documents. And the safety case documents provide more detail about how we meet industry practices including IAEA guidance.
2019 May 16	Unknown	Online Feedback Form	Info on Chalk river	**Response:** Thank you for your recent email inquiry on the NPD Closure Project. The Canadian Nuclear Laboratories' (CNL) website is an excellent source of information on activities and projects related to Chalk River Laboratories and CNL. Additionally, a project specific page on the NPD Closure Project can be accessed at www.cnl.ca/npd. If you have any specific questions, do not hesitate to email us at communications@cnl.ca and we would be happy to assist.
2019 April 30	Unknown	Email	I don't seem to be able to find on the CNL website the (latest versions of the) two PP presentations • Factors Affecting Radioactive Waste Management Decisions (by Paul McClelland, AECL); and • Proposed NPD Follow-up Monitoring Program (by Kristan Schruder, CNL), that were presented at the CNL Breakfast Briefing at the Deep River Public Library on Wed, April 24th. Would you be so kind as to e-mail me the two PP presentations or the precise links to them?	**Response:** Apologies, I sent you the NSDF link in error. NPD: http://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/january-2019-npd-closure-project-updates/default.aspx
2019 March 20	Ontario	Email	RE: Join us Wednesday evening: CNL's Environmental Remediation Project Updates (Webinar) – Thanks for the invite however the timing conflicts with our council meeting. If there is a video or	**Response:** If you utilize the same link after the event, the recorded version will be available. Let me know if you have any issues.

Engagement Feedback NPD Closure Project: 2016-2024				
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			another session I would appreciate it if you could let me know.	
2019 March 10	Quebec	Email	Le webinaire prévu le 20 mars à compter de 18h30 se tiendra t-il en français ? Si oui, merci de nous en faire part. Si non, quelles mesures prendrez-vous pour rejoindre les citoyens concernés par ces projets à Chalk River et Rolphton et qui parlent en français ?	Please utilize the following link for webinar video: www.cnl.ca/webinar Mute video sound and join by telephone for French translation: Dial number below: 613-584-3311 ex. 21000 (Canada) English (United States) 1-866-513-2325 ex. 21000 (Canada) English (United States) Find a local number When prompted for conference ID: conference ID: 5713899, then press # Please feel free to contact me if you have any questions.
2018 October 17	Ontario	Webinar live chat	Would CNL support an IAEA 'Artemis' review of the NSDF and NPD projects, as proposed by CNSC VP Ramzi Jamma in May 2018?	**Response:** (NPD presenter nodded to indicate willingness and NSDF presenter answered the question)
2018 October 17	Ontario	Webinar live chat	NPD – How the project deal with the heat generated from the massive quantity of grout and assure that its crack control	**Response:** We'll be pouring approximately 17,000 cubic metres of grout, so heat generation is certainly something we considered as part of the design, something we have to manage during the work. A key thing to note is that one of our requirements on the grout was for it to be low heat generating grout. So the bulk field grout that we are using will generate a low amount of heat. It's 90 per cent Fly Ash and only 10 per cent Portland cement, so that does helps to control the heat generation. Another key thing is that we will be pouring the grout in lifts, so that we can control heat generation. The grout will not be poured within a couple days or all at once. It'll be done over about 60 days of grout pouring in order to get to all the different areas such that we can control heat generation and manage the grout filling throughout the facility for stability of walls and stuff like that as we go forward. So heat generation based on grout designs and the lifts that we'll be pouring into the facility.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2018 October 17	Ontario	Webinar live chat	What is the extent of additional bore holes at the NPD site? i.e. in what directions and how far away from NPD	I want to stress that we did have a geologic characterization for the site, including from when the site was constructed, because it does have a reactor facility on it so the geology was well understood. In fact because of the way the facility was constructed it was excavated right into the bedrock, we did get a good characterization of the bedrock at that point. But, geology or techniques to evaluate geology have changed since the facility was constructed, so we have committing to performing an additional eight boreholes. Four of them are located deeper into the bedrock. Each of the boreholes are located fairly close to the facility, 10-15 metres of the facility and at each corner of the facility so we can cover all sides of the facility. Those four boreholes will go deeper into the bedrock, at least 50 metres, which is below the depth of the actual facility to provide more characterization of the addition the facility actually sits in. The other four boreholes will be shallower boreholes to characterize the overburden more upstream from the facility and along the roadway. The identification of what we needed as far as additional characterization was assessed by professional geologists and recommended as to what additional work would be beneficial to the project and to address concerns of the public, Indigenous groups and the regulator.
2018 October 15	Unknown	Email	I was wondering if you have information on display to occupy the time between the doors opening and the 7 pm presentation. Also, will you be providing refreshments or are we allowed to bring food in? I am asking because we will be travelling an hour and 1/2 to get to the site and the trip would be over the supper hour.	
2018 October 15	Unknown	Email	I've received this email invitation however the timing is less than ideal. With such a short time before the election this makes it difficult to devote time to a webinar best suited for after the election.	**Response:** You can view the webinar afterwards at the same web address of www.cnl.ca/webinar. If you have any questions or issues accessing it please contact us as communications@cnl.ca.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			I don't believe I'll be able to participate due to other commitments surrounding my campaign. I would hope that this will be presented again after the election.	
2018 October 10	Unknown	Email	Re: CNL is hosting an online webinar for the NSDF & NPD Projects – Hi!! I am so glad to hear about that webinar!! Would you allowed me to share that information on my Facebook campaign page? I think it would be a great opportunity for people to learn about that facility. The October 17th happens to be the same night of the fundraising for Petawawa Heritage Village which i would be attending, so would it be possible to have access to the webinar at any other time?	**Action:** Comment recorded, commenter received response from the communications mailbox.
2018 October 10	Unknown	Email	Re: CNL Update for Municipal Candidates | Mise à jour de LNC aux candidats municipaux – If you record the event, please send me a link. Regardless of the election outcome, I will watch it to become better informed.	**Action:** Comment recorded, commenter received response from the communications mailbox.
2018 October 10	Ontario	Email	Re: CNL is hosting an online webinar for the NSDF & NPD Projects – Following your request to forward concerns about participation, I would like to say that It is regrettable that this webinar is scheduled on the same evening as our Council Meeting which begins at 6:00pm. Will the session be recorded and available after?	**Action:** Comment recorded, commenter received response from the communications mailbox.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			Needless to say, the topic is of great interest to our Council and community.	
2018 October 10	Unknown	Email	Re: CNL is hosting an online webinar for the NSDF & NPD Projects – Thank you for organizing this, unfortunately I already have an engagement at that time. Is there a way to access the webinar afterwards	**Action:** Comment recorded, commenter received response from the communications mailbox.
2018 October 10	Unknown	Email	Re: CNL Update for Municipal Candidates | Mise à jour de LNC aux candidats municipaux – Thanks for the information and invitation. Unfortunately I have a class that I cannot miss at that time. Will it be available for viewing afterwards or will notes be taken? I'd be interested in either.	**Action:** Comment recorded, commenter received response from the communications mailbox.
2018 October 10	Unknown	Email	Re: CNL is hosting an online webinar for the NSDF & NPD Projects – Thank you for this communication keeping me informed. Is this webinar the same or similar in nature to the one that was delivered back in February of this year?	**Response:** It is an update on two of the major projects the NSDF and NPD Closure Project - the schedule and major feedback themes. If you cannot watch the live broadcast, you can view it afterwards at the same web address of www.cnl.ca/webinar. If you have any questions or issues accessing it please contact us as communications@cnl.ca
2018 October 07	Unknown	Email	Relatives of mine own property directly downstream from NPD. They received the attached report, were concerned, and asked me to provide them some more information if possible. I found some information online here I will also pass on to them: https://www.ceaa-acee.gc.ca/050/evaluations/proj/80121?&culture=en-CA	**Action:** Phone call and email response below. **Response:** As discussed, please find below the links to information on the NDP Closure Project. As new information becomes available, the pages will be updated to reflect any change (i.e. responses, dates). NPD Closure Project: http://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/default.aspx

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				CNL response to the CBC (Ruland) article posted on Facebook/ Twitter on 2018 Mar 22: http://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/cbc.aspx Please do not hesitate to contact me if you have any questions or require additional material.
2018 September 01	Unknown	Email	My husband Eric and myself would like to thank everyone for staying late to allow the general public to come and visit the NPD site and to learn about the work that the staff does in preparation for the closure of this site. We found everyone to be warm and friendly, knowledgeable and willing to speak about the efforts that they contribute to this process and to share the history of NPD. We really enjoyed Juliette's presentation and we thought she did an outstanding job having to speak in front of everyone. We learned a lot and the chance to view the site was an evening not to be missed. We were really impressed with the site's work with the Chimney Swifts. We will definitely be there next year earlier in the year to see them in much greater numbers at the viewings hosted on some Wednesday evenings, we believe. Thank you again for hosting this open	**Action:** Comment recorded, no response required.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			house. If possible we will be there again next year. We enjoyed it a lot and feel we still have more to learn.	
2018 August 23	Quebec	Email	Je travaille dans l'équipe du responsable national de la radioprotection du Québec, Ir Martin Benoît Gagnon. Nous sommes à évaluer les réponses portant sur le déclassement du réacteur nucléaire de démonstration Roldphon. Afin de faire notre analyse, nous aurions besoin des documents de référence suivants : Documentations techniques liées à la proposition: DecomSA TSD PostSA TSD Alternative Means Assessment TSD Autres communications internes de LNC : Aikens, 2017. Detailed Decommissioning Plan for Nuclear Power Demonstration Waste Facility, 64-508310-DDP-001, September AECOM, 2017. Design of the Concrete Cap and Engineered Barrier at NPD –Design Requirements 64-508210-DR-001, September. Calder N. 2016. Groundwater Modelling at	**Response:** Les documents demandés suivants sont maintenant disponibles pour votre examen. Étant donné la taille des documents, un protocole de transfert de fichiers est utilisé - vous pouvez accéder au matériel en utilisant le mot de passe: CNL Veuillez noter que votre mot de passe expirera dans 7 jours, Nous vous recommandons de télécharger et de sauvegarder les fichiers. 1. DecomSA TSD 2. PostSA TSD 3. Alternative Means Assessment TSD 4. Aikens, 2017. Detailed Decommissioning Plan for Nuclear Power Demonstration Waste Facility, 64-508310-DDP-001, September 5. AECOM, 2017. Design of the Concrete Cap and Engineered Barrier at NPD –Design Requirements 64-508210-DR-001, September. 6. Calder N. 2016. Groundwater Modelling at the Site of the Proposed Decommissioned Rolphton NPD Reactor, 64-508760-REPT-001, October. 7. English, 2017. Design Requirements For NPD Disposal Facility 64-508120-DR-002, October. 8. McVeigh, 2018. Alternate Decommissioning Dose Estimate for the NuclearPower Demonstration Waste Facility, 64-508740-021-000, April. 9. McVeigh, 2018. NPD Balance of Site Characterisation Report, 64-509410-REPT-009, April. 10. Porter, 2017. Safety Case for the In-situ Decommissioning of the NPD Waste Facility, 64-03610-SAR-002, September. 11. Penfold et. al, 2017. Post Closure Safety Analysis of the In-situ Decommissioning of NPD, 64-508760-ASD-001, January. 12. Geosynthesis Report 13. Seismic Hazard Assessment 14. Updated Groundwater Model

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			the Site of the Proposed Decommissioned Rolphton NPD Reactor, 64-508760-REPT-001, October. English, 2017. Design Requirements For NPD Disposal Facility 64-508120-DR-002, October. McVeigh, 2018. Alternate Decommissioning Dose Estimate for the Nuclear Power Demonstration Waste Facility, 64-508740-021-000, April. McVeigh, 2018. NPD Balance of Site Characterisation Report, 64-509410-REPT-009, April. Porter, 2017. Safety Case for the In-situ Decommissioning of the NPD Waste Facility, 64-03610-SAR-002, September. Penfold et. al, 2017. Post Closure Safety Analysis of the In-situ Decommissioning of NPD, 64-508760-ASD-001, January. De plus, dès qu'ils seront disponibles nous aimerions avoir accès à ces documents : Geosynthesis Report Seismic Hazard Assessment Updated Groundwater Model	
2018 August 16	Unknown	Email	I would like to attend the upcoming open house on August 16. Please let me know how.	**Response:** Details and registration link below. http://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/Open-house/default.aspx

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				Please let me know if you have any additional questions.
2018 August 13	Quebec	Email	I would like to have access to all the TSDs documents in regards of the EIS about the nuclear power demonstration closure project, Rolphton.	**Response:** The following requested documents are now available for your review. Given the size of the documents a file transfer protocol is being used – you can access the material by using the password: CNL Please note your password will expire in 7 days, I recommend you download and save the files. 1. Ecological Land Classification Report – NPD Closure Project, 64-509200-REPT-005, Rev. 0 2. Stakeholder Engagement Report – NPD Closure Project, 64-513440-REPT-001, Rev. 0 3. Nuclear Power Demonstration (NPD) Aboriginal Engagement Report, 64-513130-REPT-001, Rev. 1 4. Alternative Means Assessment Report – NPD Closure Project, 64-509200-ASD-002, Rev. 0 5. Decommissioning Safety Assessment Report - NPD Closure Project, 64-508760-ASD-002, Rev. 0 6. Post Closure Safety Assessment Report – NPD Closure Project, 64 508760 ASD 003, Rev. 0 7. Ecological Risk Assessment Report - NPD Closure Project, 64-509200-ASD-004, Rev. 0 8. Socio-Economic Report – NPD Closure Project, 64-509200-REPT-007, Rev. 0 9. Chimney Swift Studies – NPD Closure Project, 64-509200-041-000-0010 10. Archaeological Assessment Report – NPD Closure Project, 64-509200-ASD-003, Rev. 0 11. Greenhouse Gas Emissions Report – NPD Closure Project, 64-509200-ASD-001, Rev. 0 12. EIS Supplementary Documentation – NPD Closure Project, 64-509200-041-000-0011 13. Post Closure Safety Assessment Addendum - NPD Closure Project, 64-

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				508760-ASD-004 14. Cementitious Materials Synthesis Report - NPD Closure Project, 64-508760-REPT-008 15. Second Update to Groundwater Model – NPD Closure Project, 64-508760-REPT-007 16. Geosynthesis Report – NPD Closure Report, 64-509410-REPT-010 17. Scoping Assessment of NPDWF Transient Effluent Release to the Ottawa River, 64-509200-TD-001 18. Scoping Assessment of the NPD Closure Project Steady State Release Dilution in the Ottawa River, 64-509200-TD-002 19. NPD Structure Seismic Assessment, 64-20000-ASD-001
2018 August	Ontario	Open House Feedback Form	(Feedback related to Open House as an event) Presentation was excellent and informative.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	How long will the chimney last? What happens to the top part of the building? How long it take to grout the bottom part?	**Action:** Verbal response.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) Keep doing them!	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) Willingness of staff to explain everything. Really like the formal presentation	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) I guess I've learned enough.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback	(Feedback related to Open House as an	**Action:** Comment recorded, no response required.

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		Form	event) [Enjoyed] power point presentation.	
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) [I liked] learning about NPD and its history.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) [I liked] presentation.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) Just do it again!	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) Good answers.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) [I liked] virtual reality goggles.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) [I liked] the Indigenous presentation and cool displays.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) [I liked] employee knowledge.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event) Very informative.	**Action:** Comment recorded, no response required.
2018 August	Unknown	Open House Feedback Form	(Feedback related to Open House as an event. The drums were great to add.	**Action:** Comment recorded, no response required.
2018 August	Ontario	Verbal	(Request from Public Works Manager in	**Response:** I have confirmed with lead staff and CNL would be happy to present

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07			Pembroke to present at the Eastern Ontario Water Association's meeting in 2019 October)	on the NSDF/ NPD projects on October 24 at 10:15 am.
2018 June 12	Unknown	Email	(Verbal request for Post Closure Safety Assessment at conference)	**Response:** As a follow-up to your discussion with Kristan Schruder at the CNS conference last week, please find attached a link to the Post Closure Safety Assessment prepared for the NPD Closure Project. This report identifies the main radionuclides of concern for the disposal facility after closure. To access the file, use the password: CNL I suggest you download and save the file as this link will expire. If you have any questions or require additional information, do not hesitate to contact Kristan at kristan.schruder@cnl.ca.
2018 May 21	Unknown	Email	re: Chimney Swifts Viewing - Just to confirm: We can bring binoculars. Also while we can't take pictures, if we want any, we should bring a camera and staff will take them? Or better yet are there some stock photos that are available for download?	**Action:** Comment recorded, commenter received response from the communications mailbox.
2018 May 02	Unknown	Email	I and my partner Debra Johnson would like to attend the May 17 chimney swift count at NPD. It is especially interesting to me as I used to work there. I received an email asking if I was interested, and I tried to respond that way, but it didn't work. Please put us down for May 17 and send me a confirmation email, including the time that	**Response:** You and Debra are confirmed for 2018 May 17. Arrival time is 8:30 p.m.

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			we should arrive.	
2018 April 26	Unknown	Email	I just registered my SO (Marc Jacquard) and myself for one of the nights. I would like to make sure I put May 23rd for both of us. Can you please confirm?	**Response:** Yes, we have both yourself and Marc scheduled for May 23rd.
2018 April 25	Ontario	Email	Re: NPD Chimney Swift Count Night - Can I take the guide unit with me. There are 4 possible guides , 3 Pathfinders, and 2 leaders	**Response:** If you plan to bring nine people, you will need to add the total number of people in brackets beside your name on the registration. Please let me know if you have any other questions.
2018 April 23	Ontario	Email	I'd just like to inquire if there are any future tours planned for the NPD site before demolition please? I was aware of previous tours earlier this year, but was not able to attend that specific session. I'm making this inquiry as a private individual (but who works in the industry).	**Response:** We are planning tours this summer and may have one specifically for industry personnel. I will keep you posted on our activities.
2018 March 29	Ontario	Email	(Request found in the intervenor's public comments on the CEAA registry)	**Response:** In your submission to the Canadian Nuclear Safety Commission (CNSC) you had the following document requests for Canadian Nuclear Laboratories: 1. Please provide the report by Gillespie, A. 2017. Waste Management Plan for the Nuclear Power Demonstration (NPD) Closure Project. 64-508600-WMP-001. Issued Aug, 2017. 2. Please provide the report by Smith, W.M. 1988. Calculated Radioactive Inventory of NPD. 64-01631-021. Issued April, 2017. 3. Please provide the report by New Millennium Nuclear Technologies International, Inc. (NMNTI). 2017. Final Report for the Characterization of NPD

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				Reactor Using Tru-Pro®- Technology. 64-509410-REPT-004. Issued May 2017. We are sharing these three documents you had requested. Please note that minor redactions have been made for privacy, security or proprietary reasons.
2018 March 26	Ontario	Email	To assist in our continued participation in the environmental assessment of the proposed in-situ decommissioning of the NPDP at Rolphton we are requesting the following documents: •Decommissioning Safety Assessment (DecomSA) TSD •Aikens, A.E. 2017. Detailed Decommissioning Plan Nuclear Power Demonstration Waste Facility. 64-508310-DDP-001 Revision 0. Prepared for CNL. August. Athauda-Arachchige, H. 2015. •Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February. •Seto, P. 2015. Interim End State Report: Nuclear Power Demonstration (NPD) Waste Facility.64-508350-IES-001. Prepared for CNL. October. •Wills, A. 2013. Nuclear Power Demonstration Site: A Description of the Environmental Baseline for	**Response:** Thank you for your interest in the Nuclear Power Demonstration (NPD) Closure Project. You have requested the following five documents to assist with your review of the draft Environmental Impact Statement for the NPD Closure Project: 1.Decommissioning Safety Assessment (DecomSA) TSD 2.Aikens, A.E. 2017. Detailed Decommissioning Plan Nuclear Power Demonstration Waste Facility. 64-508310-DDP-001 Revision 0. Prepared for CNL. August. Athauda-Arachchige, H. 2015. 3.Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February. 4.Seto, P. 2015. Interim End State Report: Nuclear Power Demonstration (NPD) Waste Facility.64-508350-IES-001. Prepared for CNL. October. 5.Wills, A. 2013. Nuclear Power Demonstration Site: A Description of the Environmental Baseline for Decommissioning. 64-509200-ENA-001. Prepared for CNL. February. To access these files, please use the following password: CNL

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			Decommissioning. 64-509200-ENA-001. Prepared for CNL. February. As you will be aware, these documents are a subset of those we identified in our review of the draft EIS for the NPDP as being pertinent to the public review, and are documents which Northwatch has proposed be made available through a public registry. However, having not yet received any response to those submissions, we are requesting a very shortlist of the documents which are most pertinent to Northwatch's next steps in our review of the project. Please advise as to when we may receive the documents, or - in the alternative - receive an indication as to when a reply will be transmitted.	
2018 March 07	Ontario	Email	Are there any NPD facility tours scheduled in the spring of 2018 please?	**Response:** We don't have any tours scheduled yet, but we will be hosting some public events in the spring and summer, and we'll be sure to keep you informed.
2018 March 06	Ontario	Email	Did you ever get a position on this observation of mine from Engineering?	**Response:** Thank you for your observation. Our apologies in the delay for our response, the engineering team reviewed your observation and appreciated the feedback, but we did not consider that you were looking for a position from us. In hindsight, we should have replied earlier. The team shared the following in response to your previous email: We had concerns initially about the required rigidity of the connections

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				between the grout and concrete, and the effect of not having rebar in order to consider the structure a monolith. The feedback from our civil engineers was that for the seismic loading basis, the connection need not be rigid between the grout and concrete. That is, normal concrete connection practice (with rebar dowels, in this case) need not be followed. Rather, the requirement was that the grout be in "good contact" with the concrete walls. Essentially, this translates into not having the grout shrink during curing. Very small gaps could be tolerated, but if those gaps increased beyond something like ¼" then the facility would not behave like a monolith and would behave instead like two separate blocks. Very simply, the reason for not needing a solid connection is that if the grout does not move (or remain stationary) relative to the concrete structure during the seismic event, then the forces are all transmitted through bearing. The seismic modeling determined that the bearing capacity of the grout, even though it's low strength, is more than sufficient to withstand the "push" from a seismic event, so long as the contact between the grout and the wall is good, as noted above. With good contact, loads from the earthquake transmit through the bedrock, to the concrete, then grout, then concrete on the other side, and back to the bedrock, so the whole thing moves as a single unit. You're quite right that we want to avoid the out of sync movements, which is why the good contact is so important. The above works well for the portion of the facility in bedrock, but above bedrock introduces difficulties with inertia. Modeling has shown the part of the facility above bedrock essentially translates a small distance relative to the remainder of the facility, due to insufficient shear capacity in the concrete and grout. We are now analysing for the impact of this translation in terms of crack size, and what if any impact this has to water flow into the structure, and thus rate of contaminant release out of the structure.
2018 February 13	Unknown	Post-webinar	(Feedback related to webinar as an event) I like the chat feature on the side when	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
		online survey	webinar was broadcasted. Live chat function helps to create a dynamic interaction with the audiences especially when I was watching the webinar alone from home. The sense of being with others live helps to concentrate. I find the duration is a bit long. 35 minutes should be a maximum time frame, anything longer is not easy to focus. 6 pm is also a low energy time period for most of us who work from 9 am to 5 pm.	
2018 February 13	Unknown	Post-webinar online survey	(Feedback related to webinar as an event) Congratulations for a good presentation. I worked at NPD in 60s and happy to know that CNL is taking care of the site.by In-situ Decommissioning.	**Action:** Comment recorded, no response required.
2018 February 13	Unknown	Post-webinar online survey	Nothing more than what I've already shared in earlier emails - thank you and outstanding job so far!	**Action:** Comment recorded, no response required.
2018 February 12	Unknown	Post-webinar online survey	I thought there would be more questions but in retrospect the project was explained in such a manner that most questions were answered or pre-emptied in the presentation. I too am new to webinars (this was my first), and perhaps some hints	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			on how to ask questions would be appreciated.	
2018 February 12	Unknown	Post-webinar online survey	The intro was a bit too long before they actually started speaking. Or, perhaps in the replay post a Table of Contents where it shows what time the actual webinar starts.	**Action:** Comment recorded, no response required.
2018 February 12	Ontario	Post-webinar online survey	Webinar is a good idea, It worked fine for me. Having the recording posted on YouTube a day after the session was also a good thing. I used e-mail to communicate my questions regarding the presentation but it was distracting and complicated to find the e-mail, type it correctly, formulate the question quickly and send it out. In fact I made a mistake as I was typing your address, so I had to redo it again and in the process I went beyond the time limit and I missed the rest of the presentation. However I caught the part I missed by replaying the posted session a day later, Then I re-sent my questions reformulating them a bit better with more time and with the info I missed. It would have been better to use the chat facility but it required a membership with	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			YouTube which I did not have. I hope this helps. All the best with your important NPD closure project. Frank Nuzzo	
2018 February 11	Ontario	Email	No, by all means! I read the response from engineering. I'd like them to know that I appreciate their effort and the time they took to answer. I can offer this observation: I completely agree with Engineering's inference that any voids in the grout should not be a concern, including the case of a "beyond design" seismic event. In fact, I was not even thinking of voids in the grout, when I asked my question. I may have written it too quickly. I apologize for that. In reality, I was referring not to voids, but to the interface between the grout and the reactor-building wall. This is because, unless grout and wall are rigidly connected with rebars or embedded parts, I would not model the whole structure as a monolithic body. If Engineering (for argument sake) built a finite element model of a cross section of the grouted reactor building using mass	**Response:** Thank you for your input and interest. I'll definitely share your observations with the project team. Please reach out if you are interested in other information related to the NPD Closure Project.

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			elements for the wall and for the grout (each with its proper moduli and physical properties), and if they modelled the interface between wall and grout with discontinuity elements, and applied the forcing functions to the exterior wall, and ran the model as a non-linear analysis, I suspect they would find that the behaviour of such a model would be more severe than the equivalent monolithic model without discontinuities. The reason being that the non-rigid model, may show large out of synch differential movements between wall and grout, and hence more severe consequences than the monolithic model.	
2018 February 09	Unknown	Email	I have a few more questions on NPD Closure Project: 1) The below-grade is to be filled with grout, how to ensure that there is no void create inside the reactor or structures? 2) Other than setting up fence and signage, is there any other planned precautions for preventing terrorism activities at the decommissioned site?	**Response:** With respect to your questions, we have the following responses: 1. The below-grade is to be filled with grout, how to ensure that there is no void create inside the reactor or structures? The plan for grouting NPD is to fill the facility with grout to the maximum extent reasonably practicable, and minimize the potential for unplanned voids. This may include coring holes in ceilings of below-grade rooms both to allow introduction of grout and to reduce trapped air above doorways, for example. Prior to grouting, a detailed fill plan will be produced that will outline the steps to minimize the voids that would remain following filling and balance pressure on walls. Also, preparatory activities will be undertaken including coring of holes in walls for grout and/or air transfer, and removal of doors, where required. There are currently no plans to fill the reactor vessel itself, but the room

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				containing the vessel (the reactor vault) will be filled as much as is practicable from access points above and beside the vault. The reactor is a relatively small volume and the void left by not filling it is not significant. Also, even if the interior of the vessel were to be filled with grout, voids would remain due to the presence of the 132 fuel channels, to which we have no access to allow grout to fill, and which pass through the vessel. These obstructions posed by these fuel channels reduce significantly the volume of grout that the vessel can contain. In short, while we fully anticipate some voids our fill plans will be made so that the void sizes and locations are known, minimized, and are tolerable from a safety perspective. 2. Other than setting up fence and signage, is there any other planned precautions for preventing terrorism activities at the decommissioned site? The decommissioned site is unlikely to be an attractive target for terrorism, and there a number of reasons for this. Following decommissioning the site would consist of the waste contained within a large concrete monolith located in bedrock and protected from human intrusion with a concrete cap and earthen cover. The waste is located tens of metres underground with the majority of the radioactive waste being held inside the metal and concrete components that make up the reactor, and will be surrounded by grout. It would be extremely difficult for anyone to access and remove the waste, and even if they did it is not in a form or quantity that would pose a significant hazard to the public. During the institutional control period the existing security arrangements for access control to the NPD site will remain in place, so unauthorised access to the site would be detected and measures taken to remove the intruders. Following the institutional control period the radioactivity will have decayed sufficiently and will not pose a hazard to the public, so control of access to the

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				site will not be required. Thank you again for your questions and please do not hesitate to reach out if you would like any specific clarifications on our response or if you would like more information on the NPD Closure Project in general. We also have more information on the project and the Environmental Assessment process available on our webpage: www.cnl.ca/NPD.
2018 February 08	Ontario	Email	Thank you for your responses. I can offer the following observations and corollary questions: 1. If the initial design was qualified to a constant lateral acceleration of 0.05 times the gravitational acceleration, it was a conservative lateral loading for the historically known seismic activities in the area. However. logically, earthquakes are not preferential to certain directions. I don't remember what the National Building Code required at the time, hence my follow up question: Was this lateral loading applied to all directions? Also as far as you are aware, were vertical accelerations not considered at all in the calculations? You mention hydraulic loads. These could be generated by either internal flooding (e.g. pipe ruptures) or by external flooding or both. Do you have a record of how hydraulic loads were postulated and then considered in the calculations at the time of first design (e.g. load combinations)? Also	**Response:** Thank you for your patience. We have the following response to your first question with respect to the facility's design: The design manuals indicated the assumptions made during design were compliant with the National Building Code of Canada (NBCC), where applicable. From that, we can deduce that the NBCC required consideration only of lateral loads, which may seem like an oversight but also does not appear far-fetched given the amount of change we've seen in recent editions of the NBCC, not only for seismic loading but for other load cases. Older versions of the NBCC were also quite prescriptive with requirements to be satisfied (often detailing the construction that would satisfy the requirement), where newer versions give engineers more latitude in solving a particular issue and the Code merely states the requirement(s) to be satisfied by the design. Seismology has no doubt greatly improved our understanding of seismic loads since NPD was designed, and it continues to evolve. Based on the wording in the design manuals, we can conclude the requirements of the Code were followed. We have no indication that vertical seismic loads were assessed, or that it was a requirement. Regarding hydraulic loading, the design manuals indicate "full hydrostatic pressure on all walls with two thirds full hydrostatic pressure under all floors, with water level at existing rock level (assumed el. 403'-0") was assumed. All walls and floors below and above rock level were also checked for a temporary condition where water reached el. 413'-0" using design stresses 33-1/3% larger than the normal allowable stresses". This is for external hydraulic loading on

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			am I understanding correctly that the "500 psf surcharge loading" was applied as a contingency pressure on the exterior walls to take into account uncertainties regarding the postulated hydraulic loads or is the surcharge applied for some other uncertainties? I am glad to learn that the grouted facility is being analyzed. My observation is that the results will be as good as the modelling closely mimics the real conditions in the field. One question that comes to mind is whether you are considering the exterior walls and the grouted internals as one monolithic block or if you are conservatively inserting discontinuity elements in the model, between grout and walls. Results could be vastly different if you are. Above the bedrock the analysis is more conventional. I agree, you can adjust the design or, as we used to say in my days, "design by analysis". 2. Thank you for your exhaustive answer to my second question. No further comments	the facility, i.e. groundwater. This is considered under the normal loading conditions, and the factor of safety is 2.5. Interior water (flooding) or containment pressurization (during operation) were considered as abnormal loading conditions, and the manuals indicate that the safety factor for these conditions is reduced to 1.5. Regarding the surcharge, these loads are typically applied vertically near an interface (edge of an excavation, adjacent to a wall, etc.) and a resultant horizontal reaction (pressure) can then be calculated using soil characteristics. The reason for the selection of the surcharge loading is not known, however it would likely encompass any uncertainty in loading criteria, and/or the placement near the structure of any equipment reasonably foreseen to occur. The modeling is continuing and for ease of modeling the entire grouted facility is being considered as a monolithic block. As mentioned previously, below the rock surface, the bearing capacity of the grout greatly increases the resistance of the structure to seismic loads, and the margin to failure is very high. This indicates considerable conservatism in resisting the associated seismic loading, and gives high confidence that any voids or other discontinuities can be tolerated. In practice, it is expected that some voids will be present, and the results of the analysis work (when complete) will guide us in knowing how full a room or series of rooms need(s) to be in order to resist the seismic loads. It is our current expectation that the amount of grout fill required to resist seismic loads will be fully bounded by the amount of grout required to fill all rooms to the maximum extent reasonably practicable. For seismic loading occurring above bedrock, the models are predicting a slip failure along a shear plane, essentially at the surface of the bedrock. We are continuing the analysis to fully understand the impacts of this slip failure and the width of the crack that is produced during the failure, but preliminary results are suggesting this failure will need to be tolerated and so the impacts on releases will need to be determined. The vast majority of the radioactivity is present below the rock surface, so we anticipate impacts to be small. We are

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			or observations on this topic.	also looking at mitigating measures, such as the use of higher strength filler (up to and including concrete) above the surface of the rock, although preliminary indications are that even fully reinforced high strength concrete would not prevent the slip failure at the bedrock/overburden interface. If this turns out to be the case, a higher strength filler may be of minimal benefit. I hope this helps give context to the original response, but please let us know if we can answer any further questions or provide more information.
2018 February 06	Ontario	Email	Can you comment on the Grout settlement and hardening process? Water will chemically bond and volume changes will occur. Any interference with the walls? And was that modelled?	**Response:** Sorry we didn't get to this question or the full details of the previous question. We would be happy to coordinate a teleconference with some members of the NPD Closure Project if you would be interested in speaking directly with some of the team. Thank you for attending the webinar tonight and hope to hear from you soon.
2018 February 05	Ontario	Email	I attended the Technical Discussion last year. Would it be possible to get a copy of the Postclosure Safety Assessment document? I am specifically interested to know whether radiation and water radiolysis were included as factors in your modelling of the corrosion of metals embedded in grout.	**Response:** Thank you for your interest in the NPD Closure Project and the draft Environmental Impact Statement (EIS). We have a file transfer site set up to share all of the technical support documents (TSDs) mentioned in the draft EIS. Please use the user name and password below to access the site: User name: NPD_Closure_Project Password: npdenvironimpact_feb13 Within the file transfer site, there is a folder called Technical Supporting Documents. This is where you will find the Postclosure Safety Assessment TSD, as well as the other 11 TSDs referenced in the draft EIS. Please do not hesitate to contact me if there is any trouble downloading the Postclosure Safety Assessment or any of other documents through the file transfer site or if you would like more information on the NPD Closure Project.
2018 February 02	N/A International	Email	I have a query regarding the NDP webinar scheduled for the 6th February.	**Response:** Wish you could make it, but live events can certainly be difficult for different time zones! I will share a link to the recorded webinar with you and your team next Wednesday. I will also pass on your interest in the project to

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			I was AREVA project manager for independent peer review of the NPD decommissioning documentation. My team is based in England, and we are very much interested in viewing the webinar. Due to the time difference, it would be difficult for my team to view the webinar live. Will the webinar be available to view later through youtube (or other means)?	our project team. If you have any questions for the project or would like more information, I am happy to assist.
2018 January 24	Ontario	Email	I attended the Open House and Presentations at NPD on Saturday, January 20th, 2018. I was extremely impressed with the Project Team Members who met with us, told us about NPD's history, including it's operation, it's shutdown, it's ongoing decommissioning, and it's planned end state. Team Members were friendly, knowledgeable, and very professional. Questions were answered politely and factually and I have every confidence that this group of dedicated and resourceful men and women will bring this project to a successful conclusion.	**Action:** Comment recorded, no response required.
2018 January 24	Ontario	Email	Thank you for this response. I have one	**Response:** You had outlined in your previous email the following question:

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			concern. Under the circumstances, is Engineering required to guarantee that all voids are going to be filled with grout? ACI 304.1 provides guidelines on equipment, forms, aggregate handling, and grouting procedures for structural applications not for the decommissioning of nuclear facilities. There must be specific engineering requirements applicable to the decommissioning of this nuclear facility. I don't know what the design requirements are regarding the filling of voids. Undoubtedly, such requirements would depend on the postulated initiating events in the grouted mass and their consequences on public health and safety. For example. If such voids over time were to become pockets of contaminated explosive gas mixtures (e.g. exothermic reactions, development of H2 etc.) I thank you for your offer of a telecom directly with a member of the NPD Closure Project team. So far my questions are mostly requests for clarifications. If I notice something that cannot be handled via e-mail, I will ask for it.	Under the circumstances, is Engineering required to guarantee that all voids are going to be filled with grout? ACI 304.1 provides guidelines on equipment, forms, aggregate handling, and grouting procedures for structural applications not for the decommissioning of nuclear facilities. There must be specific engineering requirements applicable to the decommissioning of this nuclear facility. I don't know what the design requirements are regarding the filling of voids. Undoubtedly, such requirements would depend on the postulated initiating events in the grouted mass and their consequences on public health and safety. For example. if such voids over time were to become pockets of contaminated explosive gas mixtures (e.g. exothermic reactions, development of H2 etc.) The Engineering team with the NPD Closure Project had the following clarifications: The requirement to fill NPD is that it be filled with grout to the extent practicable, such that unplanned voids are minimized. You are correct that the boundaries of "practicable" are partly defined by events to which the decommissioned NPD must offer some resistance, such as subsidence, seismic loads and impact loads. Engineering considerations will include the extent of filling required, to help to give us an idea of the size of the voids that can be left without negatively impacting the physical integrity requirements of the facility. In short, we fully anticipate some voids will be acceptable, and our fill plans will be made so that the void sizes and locations are known, and are tolerable from a safety perspective. With respect to safety, voids do not pose any significant hazards to the facility. The strategy of grouting the internal spaces of the NPD facility has been explored to show the extent to which the long-term performance of the NPD facility is dependent on the grout. The models show that grout acts to retain the contaminants within the grouted structure, but also causes the facility to resaturate faster with groundwater due to the smaller void space in the facility

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				and the capillary action of the pore space in the grout. It is possible during the grout pours that chemical reactions between the grout and aluminium components may occur resulting in the release of hydrogen. This will be controlled by the use of active ventilation during the grouting operations. Once the grout has cured the chemical reaction will stop and is therefore not of concern for the long-term safety of the facility. It is unlikely that significant quantities of hydrogen would collect in voids and in any case it would gradually dissipate over time as the hydrogen would be able to move through the pore space in the grout, and also be displaced by the groundwater resaturating the facility. All credible hazards associated with the grouting of NPD have been identified using the hazard identification guidance from the Center for Chemical Process Safety of the American Institute of Chemical Engineers Guidelines for Chemical Process Quantitative Risk Analysis, CNL Procedures on Hazard Identification, and safety assessment guidance from the CSA N294-09 standard. For the long term hazards the Features, Effects and Processes (FEPs) methodology has been utilised to identify the wide range of factors that could potentially affect the behavior of the NPD facility, the wastes contained within it and its environment over significant periods of time. Thank you for your ongoing and informed interest in the project. I have checked to confirm you were registered for the webinar next Tuesday. We hope you enjoy the presentation and I'm sure you will have some good questions for the project team. Please let me know if you need any more information or have any further clarifying questions.
2018 January 22	Ontario	Online Feedback Form	Hi Margot put me on the list for next time I got a phone call to go into work at 10:00 am on Saturday. I could not make it to the	**Response:** We'll be sure to keep you informed of any evening information sessions on the NPD Closure Project. Currently, we do not have anything scheduled, but we expect to have more public events in the spring and

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			open hose n Rolfton. I,ll keep the directions ready for the next open house. What happens if I do not work the house when there offering them to me they cut me back on hours. I worked 32 hours last week now for this coming week they have me down for 16 hours and five days off of work but that could change by sales in the grocery store. I might have to go on a night when it's a 6 pm to 8 pm.	summer.
2018 January 20	Unknown	Open House Feedback Form	Great tour and presentation!	**Action:** Comment recorded, no response required.
2018 January 20	Unknown	Open House Feedback Form	More heaters :) More access to areas if possible zone 1. More VR. Really enjoyed the presentation. Hire me back!	**Response:** Thank you for joining us at the NPD Closure Project Open House! We appreciate that you took the time to fill out a feedback form with the following comments: "More heaters :) More access to areas if possible zone 1. More VR. Really enjoyed the presentation. Hire me back!" As a response we can assure you that our next Open House will be in the summer so hopefully we won't need any heaters! Unfortunately, it would be pretty complex logistically to have around 50 people visit the nuclear areas of NPD. However, we recognize that for some people these are the most interesting areas! So we've created a video tour that we'll be sharing through social media in the next few weeks. We'll be sure to send you a link.
2018 January 20	Unknown	Open House Feedback Form	Would be cool to get a tour of the lower floors if that is possible. Can I get copy of the primary loop diagram from the control room.	**Response:** Thank you for joining us at the NPD Closure Project Open House! We appreciate that you took the time to fill out a feedback form with the following comments: "Would be cool to get a tour of the lower floors if that is possible. Can I get a

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				copy of the primary loop diagram from the control room." Unfortunately, it would be pretty complex logistically to have around 50 people visit the nuclear areas of NPD. However, we recognize that for some people these are the most interesting areas! So we've created a video tour that we'll be sharing through social media in the next few weeks. We'll be sure to send you a link. As for the diagram, the project team sent over a design description from the 1960's, which I've attached, that has details on the primary loop system at NPD. I hope you find this interesting!
2018 January 20	Unknown	Open House Feedback Form	Great presentation. It'd be interesting to have a tour of some of the slightly more restricted areas to get a better understanding of how nuclear power technology has changed in Canada.	**Response:** Thank you for joining us at the NPD Closure Project Open House! We appreciate that you took the time to fill out a feedback form with the following comments: "Great presentation. It'd be interesting to have a tour of some of the slightly more restricted areas to get a better understanding of how nuclear power technology has changed in Canada." Unfortunately, it would be pretty complex logistically to have around 50 people visit the nuclear areas of NPD. However, we recognize that for some people these are the most interesting areas! So we've created a video tour that we'll be sharing through social media in the next few weeks. We'll be sure to send you a link.
2018 January 19	Ontario	Questions from meeting with CELA		**Response:** Thank you for meeting with us on Friday, January 19th, 2018. In follow up to the meeting, we wanted to provide you with the information you had requested. Please see attached document for following requested information: 1. Total radioactivity of the concrete building structure in Becquerel 2. Definition of theoretical quantile 3. Definitions of nuclear and non-nuclear 4. Definition of radial concrete vs. axial concrete

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				5. Dimensions of the NPD reactor Please do not hesitate to reach out if you have further questions or would like more information on the NPD Closure Project.
2018 January 19	Ontario	Questions from meeting with CELA		**Response:** We appreciate your interest in the NPD Closure Project and we were happy you could attend the CELA meeting. In follow up to the meeting of Friday, January 19th, 2018, we wanted to provide you with information you had requested. You had indicated you were interested in more information on the grout formulation, in particular the local materials and additives for both the WR-1 and NPD decommissioning projects. Please see attached document for information on the NPD Closure Project's proposed grout formulation. With respect to the grout formulation for the WR-1 project, I have passed on your question to Mitch Mackay, CNL's Manager of Whiteshell Stakeholder Relations. We will be happy to keep you informed as further details on the proposed grout formulation for the NPD Closure Project become available. Please do not hesitate to reach out if you have further questions or would like more information on any aspect of the NPD Closure Project. As well, if you are interested, we would welcome the opportunity to host you and other members of Northwatch for a visit to the NPD site to learn more about the project and meet with some of our subject matter experts.
2018 January 17	Ontario	Email	Directions for this Saturday's open house in rolfton?	**Response:** Unfortunately, registration for our Open House for this Saturday at the NPD facility is closed as we have reached capacity. We will be sure to keep you posted on other events that may come up in the spring and summer for the NPD Closure Project.
2018 January 17	Ontario	Email	Thank you for your response. The idea of a Webinar presentation is very appropriate. Please include me and Mr. Surinder Sharma in your list of recipients and please include	**Response:** I will definitely add you and Mr. Sharma to the list for the webinar. We should have confirmed details about this event very soon, but I can tell you that we are looking at a tentative date of February 6th and it would be in the evening.

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			also access instructions. I also thank you for the engineering response to my question. The cross-section drawing makes the description in the Q&A much clearer. I would still need a clarification regarding the use of the words “sized and placed”. Am I correct in understanding that the above grade structural components of the reactor and turbine halls will be cut, sized to fit and placed in the condenser room before grouting? A corollary question to it is this: In their response, engineering do not mention the fate of the equipment below and above grade. Is it being removed and treated separately or will it be grouted as well?	You had the following clarifying questions: I would still need a clarification regarding the use of the words “sized and placed”. Am I correct in understanding that the above grade structural components of the reactor and turbine halls will be cut, sized to fit and placed in the condenser room before grouting? A corollary question to it is this: In their response, engineering do not mention the fate of the equipment below and above grade. Is it being removed and treated separately or will it be grouted as well? The project’s engineering team have the following response: When the main hall is demolished, there are some full width steel structural frames that will not easily be placed in the Condenser room without some cutting or sizing. Similarly, roofing sections and block walls will be crushed to rubble before placement in the Condenser room. The plan is to do this filling in stages. Place the rubble, debris and steel to a certain level, grout in place, then repeat until the Condenser room is full. This will be done following the general guidelines of ACI 304.1 “Guidelines for the Use of Preplaced Aggregate Concrete for Structural and Mass Concrete Applications”. In the nuclear area, the reactor vessel, boilers, storage tanks and piping will not be removed. Some large vessels will be opened to allow grout to enter and fill, but none of this equipment will be removed. During the storage with surveillance period since 1985, items like electronic equipment, flammables and chemicals were all removed. Over the last year the majority of hazardous asbestos (around pipes and tanks) has been removed to ensure the safety of staff working in the facility. This asbestos is deemed contaminated and has been stored in marine containers for placement back in the facility prior to

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				grouting. A campaign to remove light ballasts that likely contain PCBs is nearing completion. So most designated hazards are removed and the remaining equipment constitutes steel and aluminum tanks and piping. You may have more questions and if you would like we would be happy to offer an opportunity to speak directly with a member of the NPD Closure Project team. If this is something that interests you I can coordinate a conference call for you and Mr. Sharma, if he is interested as well.
2018 January 16	Ontario	Email	Thank you for your response. For whatever reason, the download seemed to work after my first difficulties. That said, some issues with CNL's response to my request of January 2nd remain. First - Request for the "personal communications" references From section 4(1)(e), one of the purposes of the EA under the CEAA 2012 is "Purposes 4 (1) The purposes of this Act are ... (e) to ensure that opportunities are provided for meaningful public participation during an environmental	**Response:** Thank you for your patience. In your previous correspondence you indicated you would like further information in the following three areas: 1. Documentation for the referenced personal communications found in the Environmental Impact Statement 2. Redacted references from the documents we had issued to you earlier in the month 3. Copies of the documents we had previously provided for your review of draft Environmental Impact Statements for other projects I have the following update on this request: 1. The project is currently working with our contractor to provide you with notes on these referenced communications. 2. CNL redacts certain information due to proprietary, commercial and/or security sensitive content. For this reason the project made minor redactions, which were not relevant to the content of the EIS, to a few of the documents you requested. 3. My colleague, Nicole LeBlanc will be sending the following four documents via an SFTP today: i. Canadian Nuclear Laboratories (CNL). 2017a. Environmental Protection Program Description Document. 900-509200-PDD-001 Rev 1, 2017 February. ii. Canadian Nuclear Laboratories (CNL). 2013. CRL Site Characteristics, CRL-03510-SAB-001, Revision 3, January.

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			assessment; ..." [emphasis added] I suggest that to meet this requirement, CNL must revisit its decision to restrict public access to any item included in a list of references that were included in its draft EIS report. This is especially true for any restrictions on references to "personal communications". To quote from your previous email: Please note that there are no written documents in relation to the referenced “personal communications”. This citation acknowledges direct personal communications (e.g. telephone conversations) with the authors of the draft Environmental Impact Statement (EIS) and the referenced individuals to collect socio-economic data directly from municipal representatives. If the nature of these "personal communications" are "telephone conversations", with "no written documents", then one can only conclude there are is no records that any of these telephone conversation ever took place. Either the call took place, and someone recorded what was said, or the call did not take place and someone speculated as to what could have been said and decided to	iii. Ethier, A. and D. Hart. 2013. Environmental Risk Assessment of Chalk River Laboratories. ENVP-509220 REPT-001. Prepared for AECL. December. iv. Morin, A. 2015. Management of Land and Habitat. CW-509200-PRO-588. Prepared for CNL. January. The project is also working to provide the following two documents from one of your previous requests as soon as possible: 1. Davison, C., Gascoyne, M., Sikorsky, E., and Tomsons, R. 1995. Geology, Geophysics and Hydrogeology of Boreholes RH1, RH2 and RH3 drilled at the Chalk River Laboratories Property near Deep River, Ontario. Siting Task Force Tech. Bib. No. 358. 2. Raven Beck Environmental Ltd. 1994. Regional Hydrologic Characterization of the Chalk River Laboratories Property Deep River, Ontario. Prepared for: Siting Task Force, STF Tech. Bib. No. 344. You also mentioned you could not find the Aboriginal Engagement Technical Support Document (TSD) on the FTP site. We verified to confirm that this document can be found on the FTP site. We shared the most recent revision of the Aboriginal Engagement TSD, NUCLEAR POWER DEMONSTRATION (NPD) ABORIGINAL ENGAGEMENT REPORT NPD DECOMMISSIONING 64-513130-REPT-001, through the FTP site. However, if you are having trouble accessing this document, we are happy to send you another electronic copy via email.

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			include it. Which is it? I cannot accept that there were no written records of the telephone conversations. To quote Section 4.1.1 - Q1 Feedback Analysis from the "Stakeholder Engagement, TSD": Stakeholders had opportunities to provide formal feedback to CNL on the project via the seven public information sessions, an online submission form, mail (a self-addressed and stamped envelope was made available), telephone and email. If no records were kept of those telephone calls, how did CNL (or the contractor) conduct their "Feedback Analysis" as documented in this TSD? Therefore, I repeat my request. Please provide all records of personal communications. This includes the record of the telephone call itself (i.e. the time and date, who called whom, and what was discussed), and any follow-up. Second - Redacted references	

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			As quoted above, the purpose of the EA process is "to ensure that opportunities are provided for meaningful public participation". That purpose cannot be met if documents are redacted. To demonstrate how inappropriate this "redaction" process is, I refer you to the following "redacted" reference. Turner, W. 2008. Chalk River Laboratories: A description of the Environmental Baseline for Environmental Assessments. CRL-509200-ENA-001. Prepared for CNL. August. You will note, that I am the author of this document, therefore I have some familiarity with its contents. What surprises me is that the document's security classification is "Unrestricted". Not only that, the items redacted are the identification of the contractors who wrote the documents referenced. Since the document's original classification is "Unrestricted", I can think of no possible justification for deletions of this sort. Please provide the un-redacted versions of all documents requested. Third - CNL reluctance to provide	

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			documents previously provided Further, I am not sure why CNL is reluctant to include documents that were previously provided. As the requester, it should be up to me to determine whether I want that document. For whatever reason, such as I may have lost my copy, I have submitted these requests. Please let me decide whether I would like another copy. (Note, I am not referring to the TSDs, since those documents were provided as a result of my original request of January 2nd) I have yet to complete my review of the TSDs, thus I have yet to complete a request for the references associated with those documents. Thank you in advance for your help addressing these requests.	
2018 January 16	Unknown	Facebook	I went to the website and could not find where to sign up for the NPD open house. Could some direct me?	**Response:** Here is the link to the registration: https://www.cnl.ca/en/home/about/visitor-registration.aspx You just need to follow it and choose the NPD Open House from the drop down menu and fill out the form. Let us know if you are still have issues.

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2018 January 12	Ontario	Email	Thank you for your response. I regret, I cannot access the files through the FTP site. Either my email address is in error, or the password does not work. Please make the appropriate changes such that I can access the files.	**Response:** We were having minor technical difficulties with the file transfer, so that could explain the trouble you were having on Friday. However, we did get a confirmation that the documents were downloaded on Saturday morning. Did you have any further problems accessing the documents on the weekend?
2018 January 12	Ontario	Email	Applied for the upcoming NPD tour associated with its final decommissioning. Awaiting confirmation or refusal. I am somewhat interested as I worked there for 10 years and was authorized as a 1st operator before transferring to Darlington GS	**Response:** Thank you for getting in touch! You are registered for the Open House this Saturday. I'll be sending around an email to all participants with more details on the Open House tomorrow. Based on your personal link to NPD I hope you will find the event an interesting opportunity to revisit your old workplace, see how the facility looks now and meet some of the team working on the NPD Closure Project. Please let me know if you have any questions or would like any information about NPD or our proposal to complete decommissioning of the site. Looking forward to seeing you Saturday!
2018 January 11	Unknown	Email	Are there any tours of NPD coming up that I can be a part of.	**Response:** There is a NPD Open House being held on January 20, 2018. Details: 1:00 p.m. – 3:00 p.m. Presentation at 1:30 p.m. Registration closes: January 17, 2018 The Open House will take place within the reactor building at NPD. Participants will have the opportunity to see parts of the facility, including the historic reactor hall, the turbine hall and the control room. If you would like to attend the Open House, please complete our online

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				registration form before the date noted above. Space is limited; if space is available, we will be in touch by email with the specific details to complete your registration. Do not hesitate to contact me if you have any questions.
2018 January 10	Ontario	Email	Jan 20th is the dead of winter. It is a bad time for me to go travelling North in my current condition. However I would be interested in receiving any presentation material that would be provided and also any report of the live session that may be recorded by designated 'Rapporteurs". If you require my signature on a non-disclosure agreement I can provide that. In the meantime, I was reading one of your Q&A answers in the mail you sent me and I have a question that you can find right below it. ---------- All of the existing inventory at the NPD facility, and debris generated as a result of the decommissioning activities, will remain within the decommissioned facility. This includes all radiological inventory such as the reactor systems and facility structure. All debris from the demolition of the above-	**Response:** Thank you for your interest in attending an information session or Open House for the NPD Closure Project. It is definitely not a great time of year to be travelling long distances, but we want to make sure that we are hosting events during the public comment period for the draft Environmental Impact Statement. Your idea to have an online streaming of the presentation is excellent, but we do have some issues with sound quality carrying within the NPD facility. We are planning an online "webinar" presentation towards the end of January or beginning of February. I will be sure to pass on the information for the webinar as soon as we have the details firmed up. You also had a follow-up question from our earlier correspondence: What are these below grade voids they refer to? I understand that the NPD facility was built on impermeable bedrock with no slopes to water tables. This is good, however any below grade voids at the site would have been created by demolition activities of the facility. If they bury radiological debris in that void above the bedrock, they would have to contain it in a concrete sarcophagus built below grade and above the bedrock, otherwise the decommissioned state of the site would be a lot less safe than the current defueled and shutdown facility. We passed this question along to some of the engineers with the NPD Closure Project team, who wanted to share the following response: When reference is made to "grade" or "ground level" it means the level at the

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			grade structures will be re-used as fill for below-grade voids. This plan for managing waste also includes containment – through encapsulation – of the remaining industrial waste materials, such as, asbestos, lead paint and shielding materials. Only wastes related to the NPD facility decommissioning will remain at the site --- This is my question: What are these below grade voids they refer to? I understand that the NPD facility was built on impermeable bedrock with no slopes to water tables. This is good, however any below grade voids at the site would have been created by demolition activities of the facility. If they bury radiological debris in that void above the bedrock, they would have to contain it in a concrete sarcophagus built below grade and above the bedrock, otherwise the decommissioned state of the site would be a lot less safe than the current defueled and shutdown facility.	surface (128.63 m asl). This section will illustrate. The voids are the empty areas within the existing concrete building structure previously occupied by equipment or all the spaces between. The largest space is the condenser room where the above grade (steel frames, walls) will be sized and placed prior to encapsulating with grout. That is to say, everything below surface level will be grouted, as well as contained within the existing concrete walls. Please let me know if you would like any further information or have any other questions.
2018 January 09	N/A International	Email	Is there an account number to which I could charge my travel costs to attend these	**Response:** Unfortunately, this an occasion where members of the public (or employees) need to arrange travel themselves. And, given the weather up here, I'm not sure you'd want to leave the Sunshine State right now, although

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			meetings?	I've heard it has been unusually wintery for Florida. We are working on firming up dates for an online "webinar" presentation. We hope this would be an opportunity for individuals that don't necessarily live locally, or would prefer not to travel too much at this time of year, to learn more about the NPD Closure Project. I will share the details for the webinar with you as soon as possible.
2018 January 08	Ontario	Email	Are there any subsequent open house dates scheduled for the future? Maybe into the spring?	**Response:** We have an Open House planned for Saturday, January 20, 2018. I was meaning to send around an email with the details tomorrow, but you can already register at www.cnl.ca/NPD-OH. At the moment we don't have anything planned for the spring, but the NPD Closure Project are considering doing industry specific tours of the facility, depending on interest levels. Hopefully, you can make it up this January, but I'll be sure to keep you posted on dates for industry tours. Don't hesitate to reach out for information whenever, we appreciate the interest in the facility and the closure project.
2018 January 08	Ontario	Email	I would be interested in an industry specific tour. That might mean a more in depth and comprehensive access, which the general public might not be interested in. Please forward my interest (as an individual – who works in the industry) in an industry tour to whomever is organizing them in your organization.	**Response:** We'll definitely be looking into doing industry specific tours and I will be sure that you are made aware. But, I should mention that the Open House allows for a very individual experience as you get to meet one-on-one with different Project Staff from a wide range of fields. At the December Open House we had many participants who had worked, or were currently working in the industry.
2018 January	Ontario	Email	It is now a new year, and we are all back to	**Response:** Happy New Year to you as well! I hope you are keeping warm in this

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02			work (even us retirees). So Happy New Year. Please provide copies of the documents listed below. These are all referenced in CNL's draft EIS for the NPD Closure Project. Included in the list below are the "so-called" Technical Support Documents. As far as I can determine, none of these TSDs are included in Section 13 of the report. I am also repeating my request for a copy of CNL's Integrated Waste Strategy, although it is also not explicitly included in Section 13. However, given the following quote from the EIS it is a reference. I do NOT want the summary IWS report since I already have that. Please provide the full report (CW-508600-PLA-002 Rev. 0, CNL Integrated Waste Strategy). CNL has developed an Integrated Waste Strategy (IWS) which concisely details “cradle to grave” pathways for all CNL waste streams, from generation to final disposition. The IWS is based on CNL’s waste inventory and forecast data and founded on the fundamental principles of	wintry weather. We have set up a file transfer site to share all of the technical support documents (TSDs) mentioned in the draft Environmental Impact Statement (EIS) with any interested party. Please use the user name and password below to access the site: User name: NPD_Closure_Project Password: npdenvironimpact_jan26 Within the file transfer site, there is a folder called Technical Supporting Documents. This is where you will find the following TSDs you have requested: • Aboriginal Engagement TSD • Alternative Means Assessment TSD • Archaeology TSD • Chimney Swift Studies TSD • Decommissioning Safety Assessment TSD • Ecological Land Classification TSD • Ecological Risk Assessment TSD • EIS Supplementary Documentation TSD • Greenhouse Gas Emissions TSD • Postclosure Safety TSD • Socio-Economic Assessment TSD • Stakeholder Engagement TSD You have also requested the following documents and personal communications: • Aikens, A.E. 2017. Detailed Decommissioning Plan Nuclear Power Demonstration Waste Facility. 64508310-DDP-001 Revision 0. Prepared for CNL. August.

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			waste avoidance, minimization and re-use. It enables the assessment of the quantities and types of waste across the spectrum of waste that CNL manages, (e.g., from clearable waste to used fuel). In-situ decommissioning of NPDWF meets one of the CNL integrated waste strategy objectives by providing a disposition route for the NPD reactor, components and systems. Please provide copies of the following: 1. Aikens, A.E. 2017. Detailed Decommissioning Plan Nuclear Power Demonstration Waste Facility. 64508310-DDP-001 Revision 0. Prepared for CNL. August. 2. Athauda-Arachchige, H. 2015. Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February. 3. Baird, A. 2016. Manager Economic Development, Renfrew County. Personal communication. August. 4. Batten, S. 2016a. Chief Administrative Officer, Town of Laurentian Hills. Personal	• Athauda-Arachchige, H. 2015. Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February. • Baird, A. 2016. Manager Economic Development, Renfrew County. Personal communication. August. • Batten, S. 2016a. Chief Administrative Officer, Town of Laurentian Hills. Personal communication. August 9, 2016. • Batten, S. 2016b. Chief Administrative Officer, Town of Laurentian Hills. Personal communication. September 20, 2016. • Canadian Nuclear Laboratories (CNL). 2017a. Environmental Protection Program Description Document. 900-509200-PDD-001 Rev 1, 2017 February. • Canadian Nuclear Laboratories (CNL). 2013. CRL Site Characteristics, CRL-03510-SAB-001, Revision 3, January. • Davison, C., Gascoyne, M., Sikorsky, E., and Tomsons, R. 1995. Geology, Geophysics and Hydrogeology of Boreholes RH1, RH2 and RH3 drilled at the Chalk River Laboratories Property near Deep River, Ontario. Siting Task Force Tech. Bib. No. 358. • Dolinar, G. and Vickerd, M. 2017. Species at Risk Act Request for a Permit.64-509200-018-000. April. • Ethier, A. and D. Hart. 2013. Environmental Risk Assessment of Chalk River Laboratories. ENVP-509220REPT-001. Prepared for AECL. December. • Lougheed, J. 2016. Mayor, Town of Deep River. Personal Communication. August. • Martof, B. 1953. Home Range and Movements of the Green Frog Rana clamitans. Ecology. 34: 3. 529-543. • Morin, A. 2015. Management of Land and Habitat. CW-509200-PRO-588. Prepared for CNL. January. • Raven Beck Environmental Ltd. 1994. Regional Hydrologic Characterization of the Chalk River Laboratories Property Deep River, Ontario. Prepared for: Siting Task Force, STF Tech. Bib. No. 344. • Schruder, K. 2017. NPD Closure Project Organization. 64-514100-ORG-001. Prepared for CNL. May.

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			11. Lougheed, J. 2016. Mayor, Town of Deep River. Personal Communication. August. 12. Martof, B. 1953. Home Range and Movements of the Green Frog Rana clamitans. Ecology. 34: 3. 529-543. 13. Morin, A. 2015. Management of Land and Habitat. CW-509200-PRO-588. Prepared for CNL. January. 14. Raven Beck Environmental Ltd. 1994. Regional Hydrologic Characterization of the Chalk River Laboratories Property Deep River, Ontario. Prepared for: Siting Task Force, STF Tech. Bib. No. 344. 15. Schruder, K. 2017. NPD Closure Project Organization. 64-514100-ORG-001. Prepared for CNL. May. 16. Seto, P. 2015. Interim End State Report: Nuclear Power Demonstration (NPD) Waste Facility.64-508350IES-001. Prepared for CNL. October. 17. Turner, W. 2008. Chalk River Laboratories: A description of the Environmental Baseline for Environmental Assessments. CRL-509200-ENA-001.	

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			Prepared for CNL. August. 18. Walker, J. 2016. Licensing Plan. Licensing and Environmental Assessment for NPD – NPD Closure Project. Prepared for CNL by Arcadis Canada Inc. May. 19. Aboriginal Engagement TSD 20. Alternative Means Assessment TSD 21. Archaeology TSD 22. Chimney Swift Studies TSD 23. Decommissioning Safety Assessment TSD 24. Ecological Land Classification TSD 25. Ecological Risk Assessment TSD 26. EIS Supplementary Documentation TSD 27. Greenhouse Gas Emissions TSD 28. Postclosure Safety TSD 29. Socio-Economic Assessment TSD	

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			30. Stakeholder Engagement TSD 31. CNL, CNL Integrated Waste Strategy, CW-508600-PLA-002 Rev. 0 (Please do not provide the summary document, CW-508600-PLA-006 Rev 0, as it is a summary,and not the complete strategy.) Thank you in advance It is now a new year, and we are all back to work (even us retirees). So Happy New Year. Please provide copies of the documents listed below. These are all referenced in CNL's draft EIS for the NPD Closure Project. Included in the list below are the "so-called" Technical Support Documents. As far as I can determine, none of these TSDs are included in Section 13 of the report. I am also repeating my request for a copy of CNL's Integrated Waste Strategy, although it is also not explicitly included in Section 13. However, given the following quote	

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			from the EIS it is a reference. I do NOT want the summary IWS report since I already have that. Please provide the full report (CW-508600-PLA-002 Rev. 0, CNL Integrated Waste Strategy). CNL has developed an Integrated Waste Strategy (IWS) which concisely details "cradle to grave" pathways for all CNL waste streams, from generation to final disposition. The IWS is based on CNL's waste inventory and forecast data and founded on the fundamental principles of waste avoidance, minimization and re-use. It enables the assessment of the quantities and types of waste across the spectrum of waste that CNL manages, (e.g., from clearable waste to used fuel). In-situ decommissioning of NPDWF meets one of the CNL integrated waste strategy objectives by providing a disposition route for the NPD reactor, components and systems. Please provide copies of the following: 1. Aikens, A.E. 2017. Detailed Decommissioning Plan Nuclear Power Demonstration Waste Facility. 64508310-DDP-001 Revision 0. Prepared for CNL. August.	

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			2. Athauda-Arachchige, H. 2015. Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February. 3. Baird, A. 2016. Manager Economic Development, Renfrew County. Personal communication. August. 4. Batten, S. 2016a. Chief Administrative Officer, Town of Laurentian Hills. Personal communication. August 9, 2016. 5. Batten, S. 2016b. Chief Administrative Officer, Town of Laurentian Hills. Personal communication. September 20, 2016. 6. Canadian Nuclear Laboratories (CNL). 2017a. Environmental Protection Program Description Document. 900-509200-PDD-001 Rev 1, 2017 February. 7. Canadian Nuclear Laboratories (CNL). 2013. CRL Site Characteristics, CRL-03510-SAB-001, Revision 3, January. 8. Davison, C., Gascoyne, M., Sikorsky, E., and Tomsons, R. 1995. Geology, Geophysics and Hydrogeology of Boreholes RH1, RH2 and RH3 drilled at the Chalk River Laboratories Property near Deep River,	

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			25. Ecological Risk Assessment TSD 26. EIS Supplementary Documentation TSD 27. Greenhouse Gas Emissions TSD 28. Postclosure Safety TSD 29. Socio-Economic Assessment TSD 30. Stakeholder Engagement TSD 31. CNL, CNL Integrated Waste Strategy, CW-508600-PLA-002 Rev. 0 (Please do not provide the summary document, CW-508600-PLA-006 Rev 0, as it is a summary,and not the complete strategy.) Thank you in advance	
2017 December 14	N/A International	Email	Thanks for your email reply via Lucia Abellan at CNSC. I still do not think that the quoted tritium value of 1.36 x 101 Bq is correct for stainless steel in table 4.4.1	**Response:** Thank you for your interest in the NPD Closure Project. Given your line of technical questions I suggest reviewing the Post-closure Safety Analysis (PostSa) Technical Support Document (64-508760-ASD-003), as it will provide the technical information you are looking for. We have made this document available to the Canadian Environmental Law Association (CELA) through our Secure File Transfer Protocol site (see below for login details). Specifically, I would draw your attention to Appendix B (Systems Description) where the development of the reference inventory is discussed in more detail. Please also see below answers to your questions regarding the NPD reference

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			How many tonnes of stainless steel are in the NPD reactor? 13.6 Bq is much too low. This has all the signs of a digit being dropped off the exponent value. Goodness knows, it happens to everyone.:-) I have other questions re Rolphton EIS table 4.4.1, if you don't mind. 1.What are the units for “Contamination”? Bq or Bq per g? Normally, contamination figs refer to concentrations. 2. Where are the Bq data for Fe-55? (As in listed the EISs for CRL and Whiteshell). 3. What are the contamination figures (whole concrete structure) for H-3, C-14, Cl-36, Ca-41, Co-60, Ni-59, Ni-63, and Ag-108m? 4. It is necessary to work with concentration figures ie Bq/g. Could you present these for the above nuclides?	inventory. If you have any further questions I would be happy to continue this dialogue in any manner of convenience to yourself and CELA. For instance, we would be happy to provide a tour of the NPD facility and face to face discussion, if you are interested. I still do not think that the quoted tritium value of 1.36 x 101 Bq is correct for stainless steel in table 4.4.1. This quoted value of 1.36E+01 Bq is the inventory produced by activation of the stainless steel components. Only very small amounts of tritium are produced by activation of stainless steel end fittings. Tritium inventory within NPD reactor systems is primarily from surface contamination from contact with heavy water (e.g. zircaloy pressure tubes). How many tonnes of stainless steel are in the NPD reactor? Stainless steel was only used in the construction of the end fittings of the NPD reactor, this stainless steel adds up to a total of 5529 kg (5.529 tonnes). The NPD calandria was constructed from aluminium and the fuel channels contained within are constructed of zircaloy with stainless steel end fittings, as referenced above. What are the units for “Contamination”? Bq or Bq per g? Normally, contamination figs refer to concentrations. The units for “Contamination”, as well as all other inventory presented in other columns in Table 4.4-1 (a) are in Bq. We apologize for the oversight of note including the unit directly in columns of Table 4.4.-1 (a), however, it is provided in the title “Reference Activity (Bq at 2018) of the Reactor Vault”. Please note that the appropriate units are provided for Table 4.4.-1 (b) “Reference Inventory of Fission Products and Actinides in other Rooms”. Where are the Bq data for Fe-55? (As in listed the EISs for CRL and Whiteshell). The EIS has listed only the radiological contaminants of interest. The inventory of Fe-55 is 2.94E+11 Bq. However, it was screened out as a radiological contaminant of interest for NPD as Fe-55 peak dose was relatively low at 1.25E-12 Sv/y. Please see Section 4.3.1 of the PostSA for a description of the

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			Thanks. 5. What is the estimated mass of the whole concrete structure of the NPD? It would be good if a name could be used to ensure that we're communicating with the right person.:-)	screening process applied to determine the radiological contaminants of interest. What are the contamination figures (whole concrete structure) for H-3, C-14, Cl-36, Ca-41, Co-60, Ni-59, Ni-63, and Ag-108m? The NPD reference inventory contains two separate concrete components which have different inventories dependent on proximity to the reactor. The reference inventory in the concrete immediately surrounding the reactor is presented in Table 4.4-1 (a) as “Concrete”. The reference inventory of the whole concrete facility structure is presented in Table 4.4-1 (b) as “Generic Contamination”. Reference inventory in the reactor vault concrete includes H-3, C-14, Cl-36, Ca-41, Co-60, Ni-63, and Eu-152 as a result of activation of concrete directly surrounding the reactor. This reference inventory was derived from a combination of neutron flux calculations as well as direct measurements (e.g. sampling and analysis). Ni-59 and Ag-108m are not activation products present in concrete. Reference inventory in the concrete facility structure includes H-3, C-14, Co-60, Sr-90, Cs-137 and low levels of actinides as a result of surface contamination. This reference inventory was derived from direct measurements (e.g. sampling and analysis). It is necessary to work with concentration figures i.e. Bq/g. Could you present these for the above nuclides? Thanks. As requested, please see the table below for the concentrations of the radionuclides present in the reactor vault concrete: Radionuclide Reference Inventory Concrete (Bq) Concrete Radionuclide Concentrations (Bq/g) H-3 1.41E+12 3.22E+03

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				C-14 2.40E+10 5.49E+01 Cl-36 2.20E+09 5.57E+01 Ca-41 7.62E+09 1.74E+01 Co-60 3.18E+11 7.27E+02 Ni-63 6.83E+10 1.56E+02 Eu-152 1.23E+11 2.80E+02 The contamination of the whole facility concrete structure ("Generic Contamination") presented in Table 4.4-1 (b) is presented in Bq/g. What is the estimated mass of the whole concrete structure of the NPD? The estimated mass of the concrete facility structure of NPD is 5,250,000 kg. We have a file transfer site set up to share all the technical support documents (TSDs) mentioned in the draft EIS, including the Post-closure Safety Analysis. Please use the user name and password below to access the site: User name: NPD_Closure_Project Password: npdenvironimpact_jan26 Please do not hesitate to contact me if there is any trouble downloading the files through the file transfer site or if you would like more information on the NPD Closure Project.
2017 December 12	Unknown	Email	what a great time myself and my buddies who worked at npd had. great access and presentation in the old stores room. as I collect photos of npd there are several i would like and several i would like to give to cnl. would it be possible to meet with someone at cnl to view all of the above? since I live in deep river and am retired my	**Response:** So glad to hear you had a good time at the Open House! I will pass this along to the NPD Closure Project team and we will try to get back to you as soon as we can.

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			calendar is wide open. I would like somebody to put together a photo book of npd both outside an in and will put all my time and resources into this at zero cost for me. looking forward to your response. oh ya I am the guy in the black opg jacket with the legion hat on.	
2017 December 12	Unknown	Email	ok so in the mean time I would a copy of the six of us dudes in the control room. thanks.	**Response:** I've attached the photo you had wanted.
2017 December 09	Unknown	Verbal	[Verbal information request from Open House]	**Response:** I hope you enjoyed the rest of your weekend and thank you for coming out to the NPD Open House on Saturday! You had mentioned you would be interested in seeing some of the Chimney Swift videos, so I've put together a few links that may interest you below: • You can find this short video on our YouTube channel, which discusses how the NPD Closure Project explored different ways to protect the Chimney Swift: https://youtu.be/lxhQk9cMIkY • This summer, we had the Tattersall Lab, which is based out of Brock University, visit NPD to see the Chimney Swifts. They took a really cool thermal imaging video of the Chimney Swifts entering the NPD stack, which we posted on our Facebook page: https://www.facebook.com/CanadianNuclearLaboratories/videos/vb.1077331945659186/1404297842962593/?type=2&theater • For more background on our plan to protect the Swifts, you can visit our web page: http://www.cnl.ca/en/home/environmental-stewardship/npd-closure-project/chimney-swift-population.aspx If you have any trouble with opening any of these links, or if you would like more information or have any questions, please let me know.
2017 December 08	Unknown	Email	Admittedly a little tardy, but welcomed and appreciated none the less. I'll certainly	**Response:** As I had mentioned, I passed along your inquiry to the NPD Closure Project team and we have the following response to your original inquiry:

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			mark January 20th on my calendar and keep this in mind, but it would be premature for me to say at this time whether I will be able to attend or not.	Thank you for your interest in NPD. There is definitely an interesting and important history associated with NPD. Canadian Nuclear Laboratories (CNL) and the NPD Closure Project team are examining ways to ensure that this history is preserved. For instance, in the past Atomic Energy of Canada Limited (AECL), now CNL, has donated items and documents to local historical societies, such as the Rolph, Buchanan, Wylie and McKay Historical Society, and national museums, like the Canada Science and Technology Museum in Ottawa. CNL is also working with the Deep River-based Society for the Preservation of Canada's Nuclear Heritage. These local and national organizations are best-equipped with experts in archival science and museum education to preserve and share this important history locally and nationally. The Project is definitely considering photo documenting the site and all its structures before demolition and we will certainly consider submitting a paper to the TICCIH (The International Committee for the Conservation of the Industrial Heritage, http://ticcih.org/) or a similar organization. We appreciate your offer to support such an endeavour and we may definitely be in touch to take you up on your offer. I hope we will be able to see you in January! But, either way I will be sure to add you to our email list, so you will continue to receive information about the NPD Closure Project periodically. We also recently updated our webpage content at www.cnl.ca/NPD, which you may wish to take a look it. If you haven't seen this video from the 1960's on the construction of NPD, you may find it interesting: https://youtu.be/mdcXAOvRp78. There are a few other videos related to the project on our YouTube channel, as well: On the project plan: https://www.youtube.com/watch?v=qKTBoL9kOjs On in-situ decommissioning: https://www.youtube.com/watch?v=-WAEdNdu-8c&t=18s

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				On designing a special tool to access the NPD vault to help characterize the reactor: https://www.youtube.com/watch?v=4Od8iBgxpyQ On protecting the Chimney Swifts who roost in NPD's ventilation stack: https://www.youtube.com/watch?v=lxhQk9cMIkY If you have any questions or would like more information on the NPD Closure Project, I would be happy to assist (and won't take so long to get back!).
2017 December 08	Unknown	Email	Thanks for the prompt follow-up and additional information and resources. Sounds like things have been well thought out with solid plans in place for historical preservation (certainly addresses my concerns). I'll check out the web links and as previously shared, am hoping I'll be able to attend the Open House in January.	**Action:** Comment recorded, no response required.
2017 December 07	Ontario	Email	Hi do you know address number outside of the fire hall? I'm somewhat new to this area I moved up here in Oct 0f 2016 from around the outskirts of Oshawa area. I'd like to take some pictures for curiosity sake. I guess the C.N.L is going threw with the old building and making the new building as planned in the new year Darrin Kruschenski my E-mail is darrinkruschenski72@gmail.com	**Response:** The Chalk River Fire Hall where the NPD Closure Project's public information session will be held this evening (6:00 p.m. – 8:00 p.m.) is located at the end of Kellet Street in Chalk River. This is right next to the Chalk River River and Area Lions Club. If you are coming from Pembroke you will make a left at the lights in Chalk River onto the Main Street, and then turn left onto Kellet Street. The Fire Hall is located at the end of the street. You may bring a camera but I would ask if you could refrain from taking pictures during the presentation as it may be distracting to the presenter. The presentation will be at 6:30 p.m. You may find this information session on the NPD Closure Project very interesting, but it is just about one particular decommissioning project CNL is proposing, and it is not a decommissioning project at the Chalk River

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				Laboratories site, it is at our NPD site. I think you may find the information you are looking for about the plan to revitalize Chalk River Laboratories site, which includes decommissioning old facilities and building or renovating facilities, in the Executive Summary for our Long Term Strategy. You can find the Executive Summary for CNL's Long-Term Strategy here: http://www.cnl.ca/site/media/Parent/Exec_Summary_Long_Term_Strategy_2017Apr18.pdf. Please let me know if you have any other questions.
2017 December 07	Ontario	Email	Hi Margot the weather had changed quick this afternoon. I went into Pembroke to do a few things and as I was driving home I noticed that the road was getting slippery on Hwy 58 a young guy slid into the ditch with his car or truck.I was coming up on someone in front of me and I was doing the speed limit and I taped the brakes and drove slower behind the car in front of me so I guess I should sit this open house out for now hopefully C.N.L. will have another open house again soon when the weather is better	**Response:** I'm glad you were able to stay safe in this wintry weather. I will add your email to our mailing list for future public information sessions to ensure you'll be informed.
2017 December 07	Ontario	Email	Thank you for the hardcopy of the Draft EIS for the NPD Closure Project, which I have picked up. So that I can complete my review, please provide the following Technical Supporting	**Response:** We have a file transfer site set up to share all the technical support documents (TSDs) mentioned in the draft EIS. Please use the user name and password below to access the site: User name: NPD_Closure_Project Password: npdenvironimpact_jan26

Engagement Feedback NPD Closure Project: 2016-2024				
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			Documents (TSDs): • Alternative Means Assessment TSD • Decommissioning Safety Assessment (DecomSA) TSD • Postclosure Safety Assessment (PostSA) TSD • Ecological Risk Assessment (EcoRA) TSD • Ecological Land Classification Report (ELC TSD) • Stakeholder Engagement Report (Stakeholder Engagement TSD) • Aboriginal Engagement Report (AER) TSD • Socio-economic TSD Electronic format (pdf) is fine.	Within the file transfer site, there is a folder called Technical Supporting Documents. This is where you will find the following eight TSDs you have requested: • Alternative Means Assessment TSD • Decommissioning Safety Assessment (DecomSA) TSD • Postclosure Safety Assessment (PostSA) TSD • Ecological Risk Assessment (EcoRA) TSD • Ecological Land Classification Report (ELC TSD) • Stakeholder Engagement Report (Stakeholder Engagement TSD) • Aboriginal Engagement Report (AER) TSD • Socio-economic TSD Please do not hesitate to contact me if there is any trouble downloading the files through the file transfer site or if you would like more information on the NPD Closure Project.
2017 December 07	Ontario	Information Session Feedback From	While not an expert in waste management, I am reasonably literate with respect to long-term waste disposal, and the low risk (very low) from low (background up to ~100mSv) radiation. That is, radiation is an insufficient cause of cancer, and the linear non-threshold model needs to be dismissed for low-level radiation. That said, I am very	**Action:** Comment recorded, no response required.

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			concerned for the well-being of the planet and the environmental impact we have. This in-situ decommissioning projects (NPD-2 & WR-1) seem very reasonable, thoughtful and practical solutions to isolate the remaining (and decaying!) radiation. I wish that the EA being applied to this project was applied to much more realistic environmental risks, like the multitude of residential and industrial dumps that have been left to nature across this country.	
2017 December 04	Ontario	Email	I would appreciate receiving a hardcopy of the draft EIS and executive summary. Would you please let me know where I can pick up a copy.	**Response:** I would be happy to arrange to share a hard copy of the draft EIS for the NPD closure project with you. I will make a copy available at the reception desk at CNL's J.L. Gray Building in Deep River on Wednesday, December 6th, if that would work for you? In the meantime, we have hard copies of the EIS available as reference documents at the Deep River Public Library, and at both the Point Alexander and Chalk River Branch of the Laurentian Hills Public Library. As you may be aware, we are hosting a few information session this week. One is at the Chalk River Fire Hall in Chalk River on Thursday, December 7th between 6:00 p.m. and 8:00 p.m. There will be a presentation at 6:30 p.m. We are also hosting an Open House at the NPD site on Saturday, December 9th between 1:00 p.m. and 3:00 p.m. with a presentation at 1:30 p.m. Registration and details on this event can be found at www.cnl.ca/NPD-OH. Please let me know if you would like any further information about the NPD closure project.
2017	Unknown	Email	It is a shame that another Nuclear first in	**Response:** Thank you for your interest in NPD. There is definitely an interesting

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December 04			nuclear power generation is to be destroyed. The same way that the first carbon pile reactor was destroyed. I saw many radiation firsts at Chalk River thrown in the garbage with no thought of their historical worth.	and important history associated with NPD. Canadian Nuclear Laboratories (CNL) and the NPD Closure Project team are examining ways to ensure that this history is preserved. For instance, in the past Atomic Energy of Canada Limited (AECL), now CNL, has donated items and documents to local historical societies, such as the Rolph, Buchanan, Wylie and McKay Historical Society (the School House Museum), and national museums, like the Canada Science and Technology Museum in Ottawa. CNL is also working with the Deep River-based Society for the Preservation of Canada's Nuclear Heritage. These local and national organizations are best-equipped with experts in archival science and museum education to preserve and share this important history locally and nationally. As someone interested in the history of NPD, you may also be interested in an Open House we are hosting at the NPD facility this Saturday. It will include a presentation on the project and an opportunity to tour parts of the reactor building. Advance registration is required at www.cnl.ca/NPD-OH. We are also hosting a public information at the Chalk River Fire Hall this evening between 6:00 p.m. and 8:00 p.m. with a presentation at 6:30 p.m. Please don't hesitate to contact me if you have any other questions about the NPD Closure Project.
2017 December 02	Ontario	Email	Hi I,m still getting used to the area I,ll be going on 3 years since I,ve moved here from down south near Oshawa on the out skirts.The reason I,m so interested is my grandfather Norman Achtenberg used to be supervisior back in the60,s he supervised the NRX and NRU reactures and passed away in the 1980,s from being exposed to	**Response:** Sorry about not getting back to you earlier! The public information session is on the NPD Closure Project for the decommissioning of the NPD reactor, which is located near Rolphton, Ontario. Our NPD Closure Project information session will be at the Chalk River Fire Hall tomorrow, Thursday, December 7th, between 6:00 p.m. and 8:00 p.m. There will be a presentation at 6:30 p.m. Some of the experts working on this decommissioning project will be there to answer any questions you might have about the NPD Closure Project.

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			the chemicals	As well, we are also hosting an Open House at the NPD site on Saturday, December 9th, between 1:00 p.m. and 3:00 p.m. with a presentation at 1:30 p.m. Since the NPD Open House will be inside the NPD reactor building and places are limited, we do require interested participants to reserve a place to come to the Open House. You can register at www.cnl.ca/NPD-OH. Please let me know if you have any other questions or would like more information on the NPD Closure Project.
2017 December 02	Ontario	Email	Thank you for the invitation, but due to my wife not well, I shall not be able to attend the info-sessions. However, if you consider it proper, a suitable resolution may be passed by those present and send it to the federal Minister of Natural Resources seeking his blessing for developing the NPD site into a world-class Canadian Nuclear Science & Technology Museum as a public-private enterprise. To pursue this matter further, perhaps an expert committee could further explore feasibility of this idea. I wish you as always great success in all your endeavour,	**Response:** Sorry about not getting back to you earlier! The public information session is on the NPD Closure Project for the decommissioning of the NPD reactor, which is located near Rolphton, Ontario. Our NPD Closure Project information session will be at the Chalk River Fire Hall tomorrow, Thursday, December 7th, between 6:00 p.m. and 8:00 p.m. There will be a presentation at 6:30 p.m. Some of the experts working on this decommissioning project will be there to answer any questions you might have about the NPD Closure Project. As well, we are also hosting an Open House at the NPD site on Saturday, December 9th, between 1:00 p.m. and 3:00 p.m. with a presentation at 1:30 p.m. Since the NPD Open House will be inside the NPD reactor building and places are limited, we do require interested participants to reserve a place to come to the Open House. You can register at www.cnl.ca/NPD-OH. Please let me know if you have any other questions or would like more information on the NPD Closure Project.
2017 November 28	Ontario	Email	I would appreciate it if you could provide me a hardcopy of the EIS for the NPD closure project.	**Response:** We will have a hard copy of the draft EIS for the NPD Closure Project available for you at the J.L. Gray by tomorrow morning. Please let me know if you would like any other information or documents on the NPD Closure Project to assist with your review of the EIS.
2017	Ontario	Email	[Via CNSC] I was hoping to request the	**Response:** We received your request for the following seven documents

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November 27			following documents as referenced in the draft EIS for the Nuclear Power Demonstration Project: 1. Athauda-Arachchige, H. 2015. Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February 2015. 2. Canadian Nuclear Laboratories (CNL). 2016a. NPD Airborne and Waterborne Releases (2009 to 2015). 64-509200-016-000-0003 Rev.0. 3. Canadian Nuclear Laboratories (CNL). 2016b. Characterization Plan for Nuclear and Conventional Hazards of the Nuclear Power Demonstration Waste Facility (NPD). NPD Decommissioning. CNL Report 64-509410-PLA-001. Rev.0. Prepared by Oak Ridge Associated Universities. July. 4. Canadian Nuclear Laboratories (CNL). 2016c. Evaluation of NPD Air Effluent Stack and Modifications Required for Facility. NPD Decommissioning. CNL Report 64-508340-002. Rev.0. Prepared by Worley Parsons Canada Services Ltd. July.	related to our draft Environmental Impact Statement (EIS) for the NPD Closure Project from the Canadian Nuclear safety Commission (CNSC): 1. Athauda-Arachchige, H. 2015. Safety Analysis Report for the Nuclear Power Demonstration Waste Management Facility. 64-03610-SAR-001. Prepared for CNL. February 2015. 2. Canadian Nuclear Laboratories (CNL). 2016a. NPD Airborne and Waterborne Releases (2009 to 2015). 64-509200-016-000-0003 Rev.0. 3. Canadian Nuclear Laboratories (CNL). 2016b. Characterization Plan for Nuclear and Conventional Hazards of the Nuclear Power Demonstration Waste Facility (NPD). NPD Decommissioning. CNL Report 64-509410-PLA-001. Rev.0. Prepared by Oak Ridge Associated Universities. July. 4. Canadian Nuclear Laboratories (CNL). 2016c. Evaluation of NPD Air Effluent Stack and Modifications Required for Facility. NPD Decommissioning. CNL Report 64-508340-002. Rev.0. Prepared by Worley Parsons Canada Services Ltd. July. 5. Decommissioning Safety Assessment (DecomSA) Technical Support Document (TSD) 6. Postclosure Safety Assessment (PostSA) TSD 7. Ecological Risk Assessment (EcoRA) TSD We have a file transfer site set up to share all the TSDs mentioned in the draft EIS. Please use the user name and password below to access the requested DecomSA TSD, PostSA TSD and the EcoRA TSD: User name: NPD_Closure_Project Password: npdenvironimpact_jan26 We plan to make the remaining documents accessible within five to ten business days business days. Do not hesitate to contact me if there is any trouble downloading the files through the file transfer site or if you would like more information on the NPD Closure Project. As well, we would welcome the opportunity to host the Canadian Environmental Law Association (CELA) at the NPD site to learn more about the project. Or, if it is more convenient, members of the project team would be

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			5. Three un-referenced CNL Technical Supporting Docs (TSDs) that are frequently referred to in the draft EIS: 1. Decommissioning Safety Assessment (DecomSA) TSD, 2. Postclosure Safety Assessment (PostSA) TSD, and 3. Ecological Risk Assessment (EcoRA) TSD	happy to travel to a location convenient to your organization.
2017 November 22	Ontario	Email	Hello, will there be any opportunities for Candu industry participants to visit the site before it is grouted/buried permanently? The site has a lot of history and will forever be inaccessible to industry insiders. Will there be any planned site visits to the NPD site before closure? Thanks	**Response:** Thank you for your question on the NPD Closure Project! It is indeed a place with so much history. We have two Open Houses at the NPD site planned for December 9, 2017 and January 20, 2017. These are for any interested individuals and will include a tour of the NPD facility. I will follow up with the NPD Closure Project team on any upcoming Candu industry-specific tours and get back to you in the next few days.
2017 November 22	Ontario	Email	I would appreciate information on the Dec 9th open house at the NPD site, and how to sign up for it, if that's required.	**Response:** Thank you for your question on the NPD Closure Project! It is indeed a place with so much history. We have two Open Houses at the NPD site planned for December 9, 2017 and January 20, 2017. These are for any interested individuals and will include a tour of the NPD facility. I will follow up with the NPD Closure Project team on any upcoming Candu industry-specific tours and get back to you in the next few days.
2017 November 21	Unknown	Email	thanks for the reply back. I think that's totally awesome you're leaving the stack	**Response:** No problem. I'm happy to help with any questions you might have about the NPD Closure Project. We are also hosting a few Open Houses at NPD

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			for the Chimney Swifts to frolic in. Way to go!	in the next few months. I will be sure to pass along details for these events once we confirm our dates.
2017 November 20	Ontario	Email	As an interested party, I plan on providing comments on the draft EIS report for the NPD closure project. As such, I would like to obtain a hard copy. Could you please let me know where I can obtain a copy?	**Response:** We would be happy to share a hard copy of the draft EIS for the NPD closure project with you. I could arrange to have a copy ready for you to pick up in Deep River on Wednesday, November 22, if that would work for you? In the meantime, we have a hard copy available as a reference document at the Deep River Public Library and at the Chalk River Branch of the Laurentian Hills Public Library. Please let me know if you would like any further information about the NPD closure project. As well, we will also be hosting some public engagement dates in the next month, including an Open House at NPD. If you are interested in attending, I will share those details with you once we confirm dates and locations. We would be happy to share a hard copy of the draft EIS for the NPD closure project with you. I could arrange to have a copy ready for you to pick up in Deep River on Wednesday, November 22, if that would work for you? In the meantime, we have a hard copy available as a reference document at the Deep River Public Library and at the Chalk River Branch of the Laurentian Hills Public Library. Please let me know if you would like any further information about the NPD closure project. As well, we will also be hosting some public engagement dates in the next month, including an Open House at NPD. If you are interested in attending, I will share those details with you once we confirm dates and locations.
2017 November 20	Ontario	Email	[Via CNSC] For the Nuclear Power Demonstration Closure Project...is the Environmental Impact Statement available	**Response:** We would be happy to mail you a hardcopy of the draft Environmental Impact Statement for the NPD Closure Project. If you would like to confirm your address we can send the document to you as

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			for review?	soon as possible. Please let me know if you would like any further information to assist with your review, such as our Stakeholder Engagement Technical Support Document. We will also be hosting some public engagement dates in the next month, including an Open House at NPD. If you are interested in attending, I will share those details with you once we confirm dates and locations.
2017 November 20	Ontario	Email	Thank you for your response Margot...yes the address is correct...I look forward to receiving the NPD EIS. I will be out of the country from November 27th to December 7th...so best to ship the document outside of those dates. I would also like the Stakeholder Engagement Technical Support Document. I have had the opportunity to tour the NPD site recently and thank you for the offer.	**Response:** We are making arrangements to have the documents sent to you by courier on December 8, 2017.
2017 November 11	Ontario	Email	As a former employee of CRL and resident of Deep River, I would like to suggest that, while decommissioning the NPD reactor, a part of the structure be retained and around it, the NPD site be developed into a Canadian National Nuclear Science and Technology Museum. This museum would be a source of pride and inspiration to the younger and future generations about the immensely valuable Canadian contribution to nuclear energy for peaceful purposes. This unique nuclear - science museum may also provide practical lessons and	**Response:** Thank you for your interest in NPD! We couldn't agree more about the fascinating and important history surrounding the reactor. Canadian Nuclear Laboratories (CNL) and the NPD Closure Project team are examining ways to ensure that this history is preserved. For instance, in the past Atomic Energy of Canada Limited (AECL), now CNL, has donated items and documents to local historical societies, such as the Rolph, Buchanan, Wylie and McKay Historical Society, and national museums, like the Canada Science and Technology Museum in Ottawa. CNL is also working with the Deep River-based Society for the Preservation of Canada's Nuclear Heritage. These local and national organizations are best-equipped with experts in archival science and museum education to preserve and share this important history locally and nationally. Further, the NPD property belongs to AECL, a federal Crown corporation. Once

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			demonstrations to science and engineering students. The local community and economy could also benefit from tourists attracted from all over the world.	CNL completes the decommissioning of the NPD reactor, AECL will look at the future of the lands. AECL will take into account consideration for stakeholder engagement, as appropriate, and the duty to consult with Indigenous peoples. As someone interested in the history of NPD, you may also be interested in an Open House we are hosting at the NPD facility this December. It will include a presentation on the project and an opportunity to tour parts of the reactor hall, the turbine hall and the control room. As advance registration is required, please let me know if you would like to sign up. Don’t hesitate to contact me if you have any other questions about the NPD Closure Project.
2017 October 29	Unknown	Online Feedback Form	I looked at your NPD closure info that you have listed on this site, and watched the YouTube video; Your approach to 'safe stating' the site seems to make a lot of sense. I do have one question though; The YouTube video mentions leaving the stack in-place. Why are you doing this? Won't this be a safety risk for future thrill-seekers, who want to come-into the site and climb it? Once everything below grade is grouted, I wouldn't think it needs ventilation, especially not from a large chimney. Does it??	Thank you for your interest in the NPD Closure Project and I’m glad you enjoyed our video! You had a few excellent questions regarding our decision to leave the ventilation stack as it is. Why are you leaving the ventilation stack? The main reason we are leaving the ventilation stack in place is because it is a habitat for a protected species – the Chimney Swift. Every year thousands of Chimney Swifts, which are a Species at Risk in North America, migrate to the stack and use it as a roost. It is one of the largest roosts for Chimney Swifts in Canada; at times in the summer there are more than 2,000 birds roosting in the ventilation stack at NPD. Under the Canadian Environmental Assessment Act we are required to ensure that we are taking measures to mitigate any potential impact to any Species at Risk identified in the Species at Risk Act. Won't this be a safety risk for future thrill-seekers? The decommissioning NPD facility, including the ventilation stack, will remain a

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				restricted site maintained by CNL as part of the Institutional Control phase. This means that security measures will be in place to prevent unauthorized access to the site. Once everything below grade is grouted, I wouldn't think it needs ventilation? You are correct that there will be no need for the decommissioned facility to have a ventilation stack, the ventilation stack is being kept as a measure to protect the Chimney Swifts, as mentioned above. If you have any further questions or are interested in learning more about our project, you can check out our webpage, www.cnl.ca/npd, which we are in the process of updating. You're also welcome to reach out directly to us at any time.
2017 October 19	Ontario	Online Feedback Form	Could you please provide information on the next upcoming public information session for the NPD decommissioning project.	**Response:** Thank you for reaching out to us about the NPD Closure Project. We are currently working on confirming a few dates in December for Public Information Sessions on the NPD Closure Project. We are also planning an Open House at the NPD site for Saturday, December 9. As soon as we have more details on locations of the public information sessions, and registration for the Open House, I will share this information with you. In the meantime, the public comment period on the draft Environmental Impact Statement (EIS) just began last Wednesday. The draft EIS document is available on our website, as well as on the Canadian Environmental Assessment Agency's website. We also have more general information on the NPD Closure Project at www.cnl.ca/npd, which we are in the midst of updating. You're welcome contact me if you have any questions about the NPD closure project.
2017 May 05	Unknown	Email	Are there any public hearings scheduled	**Response:** Happy to assist! For an idea of the timeline for the Near Surface

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			with the CNSC with regards to the Long Term Storage Facility or the NPD permanent storage? If so, can you advise me when this would be so I could attend.	Disposal Facility (NSDF) and the Nuclear Power Demonstration (NPD) Closure Project, you can check out the Administrative Protocol for each project, found on the CEAA website. See links below, and then scroll to bottom of each page for the Administrative Protocol documents. The timeline is found towards the end of each document: NSDF Project (link) NPD Closure Project (link) Each project's Administrative Protocol includes the timeline for the public hearing and the periods for public comment throughout each project's Environmental Assessment. Currently, the date for the NSDF's public hearing is projected for January 2018 and the date for the NPD Closure Project's public hearing is projected for December 2018.
2017 May 02	Quebec	Information Session Feedback Form	No specific concern.	**Action:** Comment recorded, no response required.
2017 May 02	Quebec	Information Session Feedback Form	Sounds like a good idea.	**Action:** Comment recorded, no response required.
2017 May 02	Quebec	Information Session Feedback Form	What happens if a nuclear accident	**Action:** Comment recorded, no response required.
2017 May 02	Quebec	Information Session Feedback	Excellent presentation but I am opposed to transporting nuclear waste anywhere.	**Action:** Comment recorded, no response required.

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		Form		
2017 April 25	Ontario	Information Session Feedback Form	No questions. Looks good. Encasement in concrete with partial containment in bedrock looks reliable for long-term.	**Action:** Comment recorded, no response required.
2017 April 25	Ontario	Information Session Feedback Form	Closing NPD is excellent – about time	**Action:** Comment recorded, no response required.
2017 April 25	Ontario	Information Session Feedback Form	All my questions have been answered. The staff did an excellent job explaining in layman's terms.	**Action:** Comment recorded, no response required.
2017 April 20	Ontario	Information Session Feedback Form	I was supportive of this originally but am concerned about this proposal as well.	**Response:** Thank you for your suggestions and feedback related to the NPD Closure Project. The input that you and other members of our community share helps Canadian Nuclear Laboratories (CNL) develop a path forward that takes into account the interests of the public. The purpose of this email is to respond to your feedback from our Spring 2017 Public Information Sessions, which was as follows: I was supportive of this originally but am concerned about this proposal as well. We've consulted the NPD Closure Project team and our response to your feedback is as follows: We would be interested in learning more about your concerns for the NPD Closure Project. Would you be open to discussing the Project further? You can reach us: By email: communications@cnl.ca By telephone: 1-(800)-364-6989

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				Please feel welcome to reach out at any time for information about either the Near Surface Disposal Facility or the Nuclear Power Demonstration (NPD) Closure Project, or about CNL in general. For continuing updates on the NPD Closure Project, you can also visit our website: www.CNL.ca/NPD. You may also be interested in the opportunity to return to NPD for a tour of its current state. As a part of CNL's Open House this August. For more details on how to register please visit: http://www.cnl.ca/en/home/about/openhouse/npd.aspx.
2017 April 20	Ontario	Information Session Feedback Form	Please note the information session facility had no accessible access. The Royal Canadian Legion has a similar room with elevator access.	**Action:** Comment recorded, no response required.
2017 April 20	Ontario	Information Session Feedback Form	Glad to see the open forums to explain this	**Action:** Comment recorded, no response required.
2017 April 05	Ontario	Email	Thanks, Pat. And what's your current prediction / projection in terms of release of the draft EIS for the NPDP? The poster is messaging that the two EAs are running on the same timeline, but the last word I heard was that the NPDP was going to run about six months behind the NSDF (i.e. September release of draft EIS). Can you update or clarify?	**Response:** Good morning Brennain – I'm following up on your request below, the NSDF and NPD Closure projects are active at the same time; they do not share the same timeline or schedule. You are correct on the release of the draft EIS for the NPD closure project for public comment, it is planned for September, 2017. For additional information on this and other NPD Closure Project milestones you can refer to the NPD Closure Project administrative protocol, available on line via the CNSC's "Protocols" web page. Feel free to continue to contact me with your questions.
2017 April 04	Ontario	Email	I have a note that there were to be public information sessions held this spring	**Response:** Good morning Brennain – the material is now posted to the web site – the following link appears on the landing page

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			related to the NSDF/NPDP EAs but can find no details of them on the CNL web site, and have not received any notice. Can you please provide an update, and an indication of when details will be posted on the CNL web site / distributed to the public?	http://www.cnl.ca/site/media/Parent/NSDF_NPD_PIS_Eng.pdf The information is also provided on the project specific pages as well. Town Dates (2017) Deep River Thursday, April 20 Stonecliffe Monday, April 24 Chalk River Tuesday, April 25 Rapides-des-Joachims Wednesday, April 26 Petawawa Monday, May 01 Sheenboro Tuesday, May 02 Pembroke Wednesday, May 03 We will be running print etc. advertisements later this month.
2017 February 07	Unknown	Email	I just read of the decommissioning and closing activities underway at NPD Rolfton on the CNL website. Sad, but understandably necessary. Dad (now deceased) worked at NPD from '67-'71 and news of this activity evokes many fond memories of growing up in Deep River. I've not yet had a chance to read through all the supporting material on your website, so my question may already be answered. But has any consideration been given (from a historical perspective) to photo documenting the site and all it's structures before demolition and possibly submitting a paper to the TICCIH (The International Committee for the Conservation of the Industrial Heritage, http://ticcih.org/) or other like organization?	**Response:** I am so sorry! I sincerely apologize for this overdue response! I am passing on your inquiry (below) to our NPD Closure Project team and we are making it a priority to get back to you with more information about your request. Please don't hesitate to give me a call at (613)-633-3403 if you have any questions or would like more information about the NPD Closure Project. As somone who is interested in the history of NPD, I would also like to invite you to attend our Open House at the NPD on January 20, 2018. The event will be an opportunity to see parts of the reactor facility, meet with members of the project team and learn more about CNL's proposed decommissioning project. Advance registration is required at www.cnl.ca/NPD-OH.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			If not, I would welcome the opportunity of doing so.	
2017 January	Ontario	Mailed Feedback Form	Main concern: radioactive seepage into the Ottawa River or air, affecting communities and residents downriver from the Site Closure Project	**Action:** Commenter requested no response. Comment recorded and information responding to this interest was added to future public communications.
2016 December 13	Quebec	Information Session Feedback Form	Looks like a good closure. Hope you will continue to hold the license just in case of any future development that might be required in this area in the future.	**Action:** Comment recorded, no response required.
2016 October 27	Ontario	Information Session Feedback Form	I would love to observe the grouting of the main building when this is done.	**Response:** Thank you for taking the time to attend one of our project information sessions held in October. The input that you and other members of our community share helps Canadian Nuclear Laboratories (CNL) develop a path forward that takes into account the interests of the public. The purpose of this email is to respond to your request for information. Your original comment regarding the Nuclear Power Demonstration (NPD) Closure Project was (in summary): I would love to observe the grouting of the main building when this is done. Our response to your question: Unfortunately, it will not be possible to observe the grouting of the main building in person due to security requirements as well as the safety precautions that will be followed during grouting operations. Our communications team, together with the NPD Closure Project, will explore the possibility of video capture of grouting activities and if possible this material will be shared with the public on our website.
2016 October 27	Ontario	Information Session Feedback Form	(Indicated interest in future information)	**Action:** Added to stakeholder list for future information updates.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2016 October 26	Ontario	Information Session Feedback Form	1. What are the plans for the site post-closure? 2. There are facilities at the site that would be of benefit to the local community: the fire hydrant/dry pipe and the boat launch. Has the Township of Laurentian Hills been contacted regarding assuming ownership or at least access to these features?	**Response:** Our response to your question: 1. Following completion of the proposed decommissioning of the Nuclear Power Demonstration (NPD), the immediate area of the entombed reactor will be a waste disposal facility and remain under institutional control and not open to the public. The final determination of how the remaining NPD property will be used is left to Atomic Energy of Canada Limited (AECL). 2. The NPD Closure Project has engaged directly with the Township of Laurentian Hills at several Environmental Stewardship Council meetings as well as in discussions at recent open houses. Additionally, in October the NPD Closure Project hosted the mayor, several councillors and township staff to tour the NPD site and discuss the project. 3. The anticipated concentrations will be well below the CSA N292.0-014 guidance for low level wastes (e.g. 1 x E5 Bq/g of long-lived beta /gamma).
2016 October 26	Ontario	Information Session Feedback Form	[Would like videos]	**Response:** Thank you for taking the time to attend one of our project information sessions held in October. The input that you and other members of our community share helps Canadian Nuclear Laboratories (CNL) develop a path forward that takes into account the interests of the public. The purpose of this email is to respond to your request for the videos shown at the public information sessions. We have now uploaded these videos to our YouTube Channel. To find the following videos, please visit the following links: NPD Closure Project: Chimney Swifts - https://www.youtube.com/watch?v=lxhQk9cMIkY Nuclear Power Demonstration (NPD) Reactor Closure Project - https://www.youtube.com/watch?v=qKTBoL9kOjs The Story of NPD – https://youtu.be/mdcXAOvRp78

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				If you have any further questions or comments you can reach us: By email: communications@cnl.ca
2016 October 26	Ontario	Information Session Feedback Form	[Would like videos]	**Response:** Thank you for taking the time to attend one of our project information sessions held in October. The input that you and other members of our community share helps Canadian Nuclear Laboratories (CNL) develop a path forward that takes into account the interests of the public. The purpose of this email is to respond to your request for the videos shown at the public information sessions. We have now uploaded these videos to our YouTube Channel. To find the following videos, please visit the following links: NPD Closure Project: Chimney Swifts – https://www.youtube.com/watch?V=lxhQk9cMIkY Nuclear Power Demonstration (NPD) Reactor Closure Project – https://www.youtube.com/watch?v=qKTBoL9kOjs The Story of NPD – https://youtu.be/mdcXAOvRp78 If you have any further questions or comments you can reach us: By email: communications@cnl.ca
2016 October 24	Ontario	Information Session Feedback Form	Great displays and explanations	**Action:** Comment recorded, no response required.
2016 October 24	Ontario	Information Session Feedback Form	Excellent presentation by presenter, interested to see the future plans for the site.	**Action:** Comment recorded, no response required.
2016 October 24	Ontario	Information Session Feedback Form	Depth of presentation material significantly enhanced since first round of open houses; presents very well; looks great	**Action:** Comment recorded, no response required.
2016 October 24	Ontario	Information Session Feedback	[Wanted more information; especially link to videos]	**Response:** Thank you for taking the time to attend one of our project information sessions held in October. The input that you and other members of our community share helps Canadian Nuclear Laboratories

Engagement Feedback NPD Closure Project: 2016-2024				
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		Form		(CNL) develop a path forward that takes into account the interests of the public. The purpose of this email is to respond to your request for the videos shown at the public information sessions. We have now uploaded these videos to our YouTube Channel. To find the following videos, please visit the following links: NPD Closure Project: Chimney Swifts – https://www.youtube.com/watch?V=lxhQk9cMIkY Nuclear Power Demonstration (NPD) Reactor Closure Project – https://www.youtube.com/watch?v=qKTBoL9kOjs The Story of NPD – https://youtu.be/mdcXAOvRp78 If you have any further questions or comments you can reach us: By email: communications@cnl.ca
2016 October 24	Ontario	Letter	See correspondence dated 2016 October 24.	Yes – Earthquakes are considered in the design and decommissioning plans. NPD lies within an earthquake zone categorized as a region with moderate seismic risk. Based upon a probabilistic estimate of seismic disturbances for the next 100 years, the magnitude of peak horizontal velocity and peak horizontal acceleration have been shown to be quite low. As required by Section 7.5.2 of G-320 Assessing the Long Term Safety of Radioactive Waste Management, our post closure safety assessment will include disruptive event scenarios, such as seismic activity, and will assume that cracks will develop as a result of mechanical and chemical degradation which will result in infiltration of water. Our safety assessment will identify any actions required to be incorporated into our strategy to ensure the end state objectives are met. Yes – Once the site below grade structure is filled with grout, an engineered mounded concrete cap will be installed to minimize or eliminate water intrusion followed by an earthen cap with same objective. Yes – The final structure will be a concrete monolith and it will be appropriately grounded as will the stack. Extreme weather events are also considered in our safety assessment. The CNL sites are federally licensed facilities, subject to the security requirements of the CNSC. Any known or potential threat would be

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				immediately communicated to CNL management and appropriately safeguards taken.
2016 October 24	Ontario	Information Session Feedback Form	Very happy about the decision to keep the original stack for the benefit of the Chimney Swifts.	**Action:** Comment recorded, no response required.
2016 October 24	Ontario	Information Session Feedback Form	Very impressed with the depth of science and engineering on this project and the safety precautions being functioned into the design and execution. Well documented and explained. I only hope that the decommissioning of Des Joachims Dam is planned as well!	**Action:** Comment recorded, no response required.
2016 October 20	Quebec	Information Session Feedback Form	Is there any nuclear waste that will be entered into the Ottawa River? Who funds all this?	**Response:** Our response to your questions No nuclear waste will be entering the Ottawa River. The preferred approach for addressing the below-grade structures, including the reactor and associated reactor systems, will be to entomb them in place, by “grouting”. Referred to as in-situ decommissioning, grouting results in the creation of a solid underground concrete block structure which would contain the waste material. This concrete block will provide robust and durable containment to allow for continued decay. As part of the Environmental Assessment (EA) process and licensing process for the proposed project, a safety case is being prepared, to evaluate the long-term safety of the concrete monolith. This safety case, called the post-closure safety assessment, includes an analysis of what types of contaminants may potentially enter the groundwater if it passes through the concrete monolith. The safety case will demonstrate that the concentration of any potential contaminants that may be released into the river will be less than regulatory established criteria, which upholds the protection of the environment, including humans and non-human species.

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				The Canadian Nuclear Safety Commission (CNSC) is responsible for making the decision to approve this proposed project. They will review the EA and licensing documents. They will provide a decision on the proposed project and will only approve the project to proceed if they are satisfied that no significant adverse environmental effects are likely from this proposed project. Long-term care and maintenance activities (or "follow-up monitoring" as typically referred to in the EA process) will also be proposed by CNL as part of the EA process to ensure the facility is performing to expectations. The EA process is public, with opportunities for the public to actively participate. More information on how to participate in the EA process is available from the CNSC: http://nuclearsafety.gc.ca/eng/resources/environmental-assessments/index.cfm. As part of the EA process CNL will continue to inform the public and Indigenous peoples and provide opportunities to comment on the proposed project. Funding for the NPD Closure Project is provided by Atomic Energy of Canada Limited (AECL), which is the Crown Corporation that owns the NPD facility. Part of AECL's mandate is to fulfil Canada's radioactive waste and decommissioning responsibilities.
2016 October 20	Quebec	Information Session Feedback Form	Concerns: Keeping our water and air clean and safe.	**Action:** Comment recorded, no response required.
2016 October 18	Ontario	Information Session Feedback Form	Containment of the calandria may be a concern to the public. Please ensure this is well explained.	**Response:** We appreciate your advice and are prepared to make sure we explain this in detail when we have finalized our plan. We are still in the process of assessing which technique would be best suited to provide containment of the calandria. Two possibilities include filling the reactor vault with bentonite or with an aluminum-compatible grout.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
				As we move forward with the project we must provide a safety case for the NPD Closure Project, and containment of the calandria is one of the elements of that process. The results of the post-closure safety assessment will be made public, including how we propose to contain the calandria in the as the project progresses. We are also looking to share a summary of the post-closure safety assessment on the project web page, in order to make this information readily accessible to our local communities, and the broader Canadian public.
2016 October 18	Ontario	Information Session Feedback Form	No new questions now but would like updates.	**Action:** Added to stakeholder list to receive future information updates.
2016 October 18	Ontario	Information Session Feedback Form	(Indicated wish to receive more information)	**Action:** Added to stakeholder list to receive future information updates.
2016 October 18	Ontario	Information Session Feedback Form	Good information, well informed. Was impressed with display.	**Action:** Comment recorded, no response required.
2016 October 18	Ontario	Information Session Feedback Form	Answered	**Action:** Comment recorded, no response required.
2916 October 17	Quebec	Information Session Feedback Form	S'il vous plait, plus d'information, cirteria. Please have decision criteria for NPD for 4 opitons and possibly 5th option for NPD closure, transportation of reactor and storage site options, cost is not only	**Proposed response:** In terms of decision criteria, the Environmental Assessment (EA) process CNL has been following is in compliance with the Canadian Environmental Assessment Act (CEAA) 2012 and a number of regulatory guidelines issued by the Canadian Nuclear Safety Commission (CNSC).

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			decision factor.	The first step in the alternative means assessment process was to determine options that were both technically and economically feasible. Transportation of the reactor and storage at the CRL site was considered as part of Option 2 (Partial Removal) as well as Option 3 (Full Removal). Options that are both technically and economically feasible were then assessed against a number of environmental and socio-economic factors, referred to as Valued Components, which each option may impact. It was the potential impact on these Valued Components that ultimately resulted in the selection of In-Situ Decommissioning as the preferred technique. At the Public Information Sessions in October, CNL shared information on the costs for all options, in response to previous public feedback, and to ensure transparency. While, cost does factor into this decision criteria, it is not the ultimate factor – potential risk to the environment is.
2016 October 17	Ontario	Information Session Feedback Form	I think the in-situ option is the best option and I like the idea of keeping the stack for the Swifts.	**Action:** Comment recorded, no response required.
2016 October 17	Ontario	Information Session Feedback Form	The time line for the project is very ambitious, especially taking into account external factors like regulatory feedback timeline and aboriginal engagement.	**Action:** Comment recorded, no response required.
2016 October 17	Ontario	Information Session Feedback Form	Very good visuals – billboards, video. Good coverage of different key components of the project, e.g., does not over-emphasize EIS over, say Safety assessment. Television audio could be louder, to compensate for room noise.	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2016 October 17	Quebec	Information Session Feedback Form	Bonne explication des Projets tres interesant aussi. Meilleur connaissance.	**Action:** Comment recorded, no response required.
2016 July 26	Ontario	Event Feedback Form	I feel it's well thought out. Leave the stack!	**Action:** Comment recorded, no response required.
2016 July 26	Ontario	Event Feedback Form	I have no problem with the overall concept of grouting in place. As a member of the nascent Canadian Nuclear Heritage Society (as yet to be incorporated) I would like to see a photo/video record of the entombment process made publicly available after the job is complete. I think that making it public would help make the process more matter of fact and would counter any potential criticism from the anti-nuclear industry.	**Action:** Comment recorded, no response required.
2016 July 15	Ontario	Mailed Feedback Form	Do not move, reducing risks to personnel. Bury as explained. Ensure no leakage!	**Action:** Comment recorded, no response required.
2016 July 12	Ontario	Information Session Feedback Form	I feel future generations are going to have to deal with your proposal. Using technology that future generations will have, they will be able to deal with decommissioning NPD in a safer manner. Eventually all the components will have to be removed! In the meantime CNL can deal with some of the contaminated material that is not too active. You may want to consider putting a cap on the structure and	**Response:** I've consulted the project team and we have provided the following response: CNL would like to assure you that the proposed approach of in-situ decommissioning is safe. This approach to decommissioning the site reduces worker exposure to various industrial and radiological hazards. In-situ disposal provides a safe, secured and controlled final disposal site. In-situ decommissioning has been in use for over 60 decades and is a proven technology. Addressing the legacy liability now, prevents future generations of having to deal with the problem. Leaving the site as is for future generations

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			back filling it with nitrogen to eliminate your concerns with corrosion.	and their potential technology is not a solution that will help reduce Canada's legacy liabilities. Please do not hesitate to reach again if you have any further questions or comments on the NPD Closure Project. And, once again, our sincere apologies for not responding earlier.
2016 July 12	Ontario	Information Session Feedback Form	See my comments on the project description submitted to CNSC. Some of my questions were answered this evening. I spoke to Pat Quinn about starting some sort of continuing dialogue with local interested members of the public about development at the lab. USDOE handling of public engagement at Fernald is an excellent model.	**Response:** Thank you for your feedback. As a part of CNL's commitment to continuing the dialogue with the community and other stakeholders, CNL will be reaching out to professional societies and there will be a second set of Open Houses in October l for the public to attend. As well, you can always reach us through email, phone and social media. Email: communications@cnl.ca Phone: 1-800-364-6989 Twitter: https://twitter.com/cnl_lnc Facebook: https://www.facebook.com/CanadianNuclearLaboratories/
2016 July 12	Ontario	Information Session Feedback Form	What does the future have in store for the lands (both sides of the highway) once the site is decommissioned?	**Response:** The scope of the NPD decommissioning project is to complete decommissioning of the site, conduct rigorous characterization surveys of the land and turn it over for post-closure monitoring, referred to as institutional control. The final determination for the future use of the remaining non-impacted 900 plus acres (386 ha) lands surrounding the final footprint of the NPD Closure Project will be the decision of AECL and Government of Canada.
2016 July 07	Ontario	Information Session Feedback Form	I support the preferred method as it seems the most effective approach.	**Action:** Comment recorded, no response required.
2016 July 07	Ontario	Information Session Feedback Form	No issues/problems/concerns now! Go to it!	**Action:** Comment recorded, no response required.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2016 July 07	Ontario	Information Session Feedback Form	Will there be a collection system at the NPD site? If not, why not. How will this be done with a structure already in place?	**Response:** With regards to sampling the groundwater at the NPD site for possible contamination, there is currently a tile drain system in place at the NPD site, which collects groundwater from near the top of the bedrock and discharges it to the Ottawa River. Monitoring of discharged groundwater as well as sampling groundwater monitoring well around NPD shows that groundwater is not contaminated. For the purposes of the long-term Post-closure Safety Assessment (PSA), which aims at establishing the safety of the site for hundreds of years after the project's completion, one must assume that all collection systems would become inactive through time. Therefore, the PSA will have to demonstrate that in-situ decommissioning will be safe without a ground water collection and/or treatment program. More information on the PSA will be made available through the project website, www.cnl.ca/NPD.
2016 July 07	Ontario	Information Session Feedback Form	Very informative posters and the staff on hand were extremely helpful.	**Action:** Comment recorded, no response required.
2016 July 07	Ontario	Information Session Feedback Form	Cost of NPD closure project?	**Response:** With regards to cost, one reason that in-situ decommissioning is the proposed technique is because it is the lowest cost option. Funding for the project is provided by Natural Resources Canada (NRCan) and managed by AECL. A Target Cost Agreement between AECL and CNL is in place for funding the NPD Closure Project. More information on the estimated cost of the proposed technique will be made available.
2016 July 06	Ontario	Information Session Feedback Form	Good plan, build away	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
2016 July 06	Ontario	Information Session Feedback Form	It is good to see the project proceeding. Some additional information on the cost and dose/project issues between Insitu decommissioning vs Full dismantling options would have been appreciated on the poster boards and /or website. Questions were well answered by Kristan and Brian	**Response:** With regards to cost, one reason that in-situ decommissioning is the proposed technique is because it is the lowest cost option. Funding for the project is provided by Natural Resources Canada (NRCan) and managed by AECL. A Target Cost Agreement between AECL and CNL is in place for funding the NPD Closure Project. We are addressing other options in the EIS and information on in-situ decommissioning in comparison to other options, like dismantling, will be posted to the NPD Closure Project web page (www.cnl.ca/NPD) in the next few months.
2016 July 06	Ontario	Information Session Feedback Form	Would like access to the consultant study on the natural environment with specific reference to the SAR Blanding Turtles and Eastern Whip-poor-will	**Response:** In terms of species at risk locations, for conservation reasons we do not disclose this information to the public directly but, the MNR has a process to access species at risk data on a need to know basis through the Natural Heritage Information Centre. The Natural Heritage Information Centre tracks over 2000 species and maintains and manages a database of locations. CNL data is available on the NHIC website to assist with conservation of species. Information available online is general locations of species in a 1-km grid but detailed information is available upon request. To access exact location of species at risk from the NHIC, requestor must complete a sensitivity training and enter into a confidentiality agreement with the MNR to ensure the data points are not disclose to the public. The reasons why the MNR and CNL do not disclose exact locations of species at risk is mainly to prevent poaching. Every year CNL species at risk sightings are provided to the NHIC for inclusion in their database. https://www.ontario.ca/page/natural-heritage-information-centre
2016 July 06	Ontario	Information Session Feedback Form	I believe it is in best interest of the surround community to grout the NPD reactor. My biggest concern is maintaining the habitat of the chimney swifts. However	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
			I am confident it can be done correctly after hearing the plan.	
2016 July 06	Ontario	Information Session Feedback Form	This project is long overdue, make it happen.	**Action:** Comment recorded, no response required.
2016 June 29	Quebec	Information Session Feedback Form	I support in-situ option.	**Action:** Comment recorded, no response required.
2016 June 29	Quebec	Information Session Feedback Form	Please send PDF of English boards! Thx.	**Action:** Link to posters sent to commenter.
2016 June 29	Quebec	Information Session Feedback Form	I am satisfied with what was presented. Worked at NPD 1957-1962, WR1 1962 - 1964, In support	**Action:** Comment recorded, no response required.
2016 June 29	Quebec	Information Session Feedback Form	Will consideration be given to provide jobs or buy material, such as sand that could be delivered by large, to the closest full time residents to the site, in Sheenboro Qc? Will you continue to monitor and publish/post test results on the fish we catch and eat from the Ottawa River?	**Response:** The NPD Closure and NSDF Projects will competitively procure material and services. This could include local suppliers. CNL employment opportunities may arise due to project activities and will be posted on the www.cnl.ca website. Local suppliers may be engaged directly by CNL or as sub-contractors to a prime supplier. One point of access for potential suppliers is through our external website: http://www.cnl.ca/en/home/work/supply-chain/default.aspx CNL will continue to conduct and post results of the Chalk River Laboratories (CRL) Environmental Monitoring Program. Monitoring is conducted through the routine collection and analysis of environmental samples from numerous locations at the CRL site and in surrounding communities in order to measure the concentrations of contaminants in every significant environmental

Engagement Feedback NPD Closure Project: 2016-2024				
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				compartment involved in the migration of contaminants throughout the environment. Monitored media include ambient air, foodstuff (e.g. Milk, fish, garden produce, large game, and farm animals), groundwater, Ottawa River water, and other surface waters on and off the site. Monitoring of beach sand, ground surfaces, and meteorological conditions is also performed. Results are published in the Annual Safety Report which is submitted to the Canadian Nuclear Safety Commission. An executive summary is available on our website and the full report can be provided to interested individuals upon request: http://www.cnl.ca/site/media/Parent/CRL-509243-ASR-2014_Eng.pdf For additional reading specific to sport fish, you may want to review the results of the "Edibility of Sport Fishes in the Ottawa River near Chalk River Laboratories" this study was published in 2014. A PDF copy of the article can be found at: http://pubs.cnl.ca/doi/abs/10.12943/ANR.2013.00020 CNL is committed to both studying and continuously improving the low impact of our operations on the environment. The Environmental Protection Program maintains a comprehensive effluent and environmental monitoring program of more than 400 sampling locations with approximately 30,000 analyses performed each year at our Chalk River Laboratories (CRL). Updated environmental performance reporting results can be found here (these are published quarterly): http://www.cnl.ca/site/media/Parent/CRL_Performance_Eng.pdf If you have any questions or comments you can reach us: By email: communications@cnl.ca or margot.thompson@cnl.ca By telephone: 613 584 8811 Ext. 42252
2016 June 29	Quebec	Information Session Feedback Form	Information on monitoring air, water contaminations.	**Response:** Thank you for taking the time to attend one of our project information sessions held earlier this summer. The questions and comments shared by you and other members of our community helps Canadian Nuclear Laboratories (CNL) develop a path forward that takes into account the interests

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				of the public. The purpose of this email is to respond to your request for information. Your original request was (in summary) for: "Information on air and water contaminations." We have worked with the project teams on this response to your comment: CNL's Environmental Protection Program maintains a comprehensive effluent and environmental monitoring program of more than 400 sampling locations with approximately 30,000 analyses performed each year at our Chalk River Laboratories (CRL). Monitoring is regularly conducted on various media, including ambient air, surface water, vegetation, soil and sediments, and game animals, at various locations on and off the site. CNL publishes monitoring results in summary on our website. The Environmental Performance – Chalk River Laboratories report can be found by selecting CRL Environmental Reporting at the following web page: http://www.cnl.ca/en/home/environmental-stewardship/performance-report/default.aspx You can also find monitoring information specifically related to the Nuclear Power Demonstration (NPD) site there, as well http://www.cnl.ca/site/media/Parent/NPD_Environmental_Performance_Eng.pdf Annual Environmental Monitoring Program results are also published in the Annual Safety Report which is submitted to the Canadian Nuclear Safety Commission. An executive summary of this report is available on our website, the full report can be provided to interested individuals upon request: http://www.cnl.ca/site/media/Parent/CRL-509243-ASR-2014_Eng.pdf If you have any questions or comments you can reach us: By email: communications@cnl.ca or margot.thompson@cnl.ca By telephone: 613 584 8811 Ext. 42252
2016 June 26	Ontario	Event Feedback Form	Looks good. Capping and return to green site is the way to go.	**Action:** Comment recorded, no response required.
2016 June 26	Ontario	Event Feedback	Good information!! Keep it as inexpensive	**Action:** Comment recorded, no response required.

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Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
		Form	as possible (ALARA).	
2016 June 24	Ontario	Employee Information Session Feedback Form	What are the U.S. closed sites (entombed) struggling with? Will we face similar issues?	**Response:** For those sites in the United States where the reactor vessel and related systems were decommissioned in-situ, but the upper structures were left in place (for example the reactors at the Savannah River Site), there is a continued aging management program required for the remaining structures that have been grouted. NPD decommissioning will not face that issue because the above grade structure will be removed and the area capped, thus eliminating continued maintenance of the structure.
2016 June 24	Ontario	Employee Information Session Feedback Form	Interesting to see how the project has progressed since my last visit at NPD, 5 years ago. This should become a regular event (once a year for example), to update on progress and keep us and the communities informed on what's going on.	**Response:** Thank you for your comment on the NPD project. Over the coming months, CNL will continue to update CNL staff through myCNL, Voyageur, etc. and, external parties though our external web site and meeting opportunities i.e. open houses. Please note that a second round of public open house poster sessions is planned for late October 2016. Dates will be advertised in local media and CNL websites.
2016 June 20	Quebec	Information Session Feedback Form	It is very reassuring to receive this information directly from AECL/CNL. This presentation answered my numerous questions. Very clear!	**Action:** Comment recorded, no response required.
2016 June 20	Quebec	Information Session Feedback Form	A very good presentation, very detailed. My questions were all answered clearly.	**Action:** Comment recorded, no response required.
2016 June 20	Ontario	Information Session Feedback Form	Very clear presentation of materials. Good level of detail, plain language without being patronizing to the reader. Staff who presented the material were very knowledgeable justified the concept well.	**Action:** Comment recorded, no response required.
2016 June 20	Quebec	Information	Excellent Presentation - questions were	**Action:** Comment recorded, no response required.

Engagement Feedback NPD Closure Project: 2016-2024				
Date	**Province**	**Feedback Mechanism**	**Comment/Inquiry**	**Disposition/Response**
		Session Feedback Form	answered as to why NPD had not been decommissioned until now and the process of how waste will be contained.	