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License to Prepare Site Application

0930-00581-0001-001-LPA-A-00

June 30, 2023



Énergie NB Power

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Executive Summary

This licence application provides the information required to demonstrate that New Brunswick Power (NB Power) meets all of the requirements of the Nuclear Safety and Control Act (NSCA) [1] and the associated Regulations applicable to site preparation. NB Power is requesting a licence to prepare site (LTPS) for a 10-year term.

The application provides information that demonstrates that the Point Lepreau site is suitable for hosting an ARC-100 Small Modular Reactor (SMR). The application also describes the management system and various programs, processes, and personnel that NB Power has in place to meet the requirements of CSA N286-12, *Management System Requirements for Nuclear Facilities*, in support of site preparation activities. This will ensure that all work is performed safely, reliably, and with quality in a way that minimizes the risk to employees, the community, the public, and the environment in which the SMR is intended to be operated. While nuclear safety and security remains the top focus, conventional, radiological, and environmental performance is at the core of all activities at NB Power. Collectively, these elements ensure that safety is the overriding priority in any activities undertaken to prepare the site under this licence.

Project and Site Description

Sections 2.0 and 3.0 of this application provide a description of the project, including the activities to be licensed under this LTPS, as well as of the ARC SMR site. NB Power is requesting an LTPS for preparation of the ARC SMR site for an ARC-100 SMR, with the ultimate purpose of long term operation of the reactor. The ARC-100 SMR is expected to be operational by the early 2030's. The activities encompassed by this licence application do not involve the construction of a nuclear facility or nuclear structures, systems and components.

Site Evaluation

A number of site evaluation studies were performed to demonstrate that the ARC SMR site meets the requirements of the NSCA and the associated Regulations applicable to site evaluation. The studies and evaluation concluded that the ARC SMR site is suitable for hosting the proposed SMR.

In accordance with the Canadian Nuclear Safety Commission's (CNSC's) REGDOC-1.1.1, *Site Evaluation and Site Preparation for New Reactor Facilities* [2], general areas reviewed included:

- Hazards associated with external events (natural and human-induced)
- Evolving natural and human-induced factors
- An evaluation against the safety goals
- Potential impact of the Project on the environment
- Demographics and emergency planning

Section 4.0 of this application summarizes the review and overall conclusions of the site evaluation.

Safety and Control Measures

NB Power has determined the adequacy and effectiveness of the programs described in this document to ensure site preparation activities can be carried out in accordance with the applicable requirements. Section 5.0 of this application describes the management system that ensures compliance with the requirements applicable to the various Safety and Control Areas (SCAs) to be considered for the site preparation phase.

Indigenous Engagement

NB Power recognizes the history, significance, distinct interests, and culture of Indigenous peoples in New Brunswick and understands the importance of developing and fostering inclusive partnerships and long-lasting relationships.

Through mediums such as working groups, information sessions, educational forums and regularly occurring monthly meetings, NB Power continues to engage First Nations communities and Indigenous organizations in meaningful conversations about the Project.

Section 6.3 discusses the Indigenous engagement plans that NB Power has in place.

Public Engagement

NB Power recognizes that each group with an interest in the Project requires and expects different types of information and those expectations must be met in varying ways. The aim is to fully understand each stakeholder's stated purposes, as well as their interests, concerns, information needs, and expectations of involvement. NB Power considers the communication and engagement techniques best suited to each person or group and will incorporate this information into the overall strategy as engagement activities evolve.

Section 6.2 discusses the public engagement plans that NB Power has in place.

Overall Conclusion

In summary, this licence application contains sufficient information to demonstrate that NB Power meets all of the requirements of the NSCA and the associated Regulations and shows that NB Power:

- a) Is qualified to carry on the activities to be licensed.
- b) Has performed a site evaluation that concluded that the ARC SMR site is suitable for an ARC-100 reactor and that the ARC-100 reactor would not pose any unreasonable risk to the public, personnel or environment.
- c) Has the necessary Management System, programs, controls, oversight, and competent people in place to safely carry out the activities to be licensed in a way that meets all regulatory requirements.
- d) Has, and will continue, transparent and appropriate Indigenous inclusion and public engagement.
- e) Will, in carrying on those activities, make adequate provision for the protection of the environment, the health and safety of persons and the maintenance of national security and measures required to implement international obligations to which Canada has agreed.

Section 6.6 of this application summarizes the commitments made in this application.

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1.0 Overview

1.1 Introduction

NB Power, the licensee, plans to construct and operate a commercial demonstration SMR at the Point Lepreau site in New Brunswick (the Project), in collaboration with ARC Clean Technology Inc. (ARC). The area of the Point Lepreau property that will host the ARC-100 reactor is described in more detail in Section 3.1 and is referred to as the ARC SMR site. The Project will involve site preparation, construction, operation, and decommissioning of an ARC-100 reactor and supporting infrastructure on the site. The ARC-100 reactor is a modular, sodium cooled fast reactor that will generate 100-150 MWe for the electrical grid. NB Power will be the ARC-100 site preparation licence holder and ARC will be the technology developer. The Project is expected to be the first commercial deployments of an on-grid- Generation IV (Gen IV) [3] advanced SMR facility in Canada.

This Project is subject to nuclear licensing requirements under the NSCA, a mature and robust regulatory framework supported by specific Regulations that govern the entire lifecycle of a nuclear power plant. All aspects of nuclear energy in Canada are regulated by the CNSC for the lifecycle of the facility. As part of the licensing process, the CNSC ensures that the applicant is qualified to carry out the activities under the licence, and in doing so, will make adequate provisions for protecting the environment, the health and safety of persons, and the maintenance of national security and measures required to implement international obligations on the peaceful use of nuclear energy, to which Canada has agreed. The licensing process with the CNSC is rigorous, well documented, and transparent. It involves public hearings and includes Indigenous and public intervention to inform the decision-making process of the Commission.

The licensing process under the NSCA is initiated with an application from the proponent to the CNSC. Nuclear power plants are defined as Class I nuclear facilities, and the regulatory requirements for these facilities are found in the *Class I Nuclear Facilities Regulations* [4]. The Regulations require licences (which may be separate or combined) for all phases in the lifecycle of a nuclear power plant, including site preparation, construction, operation, and decommissioning. The CNSC requires that the environmental effects of all nuclear facilities or activities be considered and evaluated when licensing decisions are made. The type of assessment used to determine the effects depends on the location of the Project and its design.

In addition to the nuclear licensing requirements under the NSCA, the Project will be subject to a comprehensive Environmental Impact Assessment (EIA) pursuant to the New Brunswick *Environmental Impact Assessment Regulation 87-83* (NB Reg 87-83) [5], under the *Clean Environment Act* [6]. On June 30, 2023, NB Power submitted the *Environmental Impact Assessment Registration Document* (0930-07020-7000-001-ENA-A-00) [7] to the EIA Branch of the Department of Environment and Local Government (DELG) to initiate the EIA process.

The Project will be referred to as the ***ARC Clean Technology Advanced Small Modular Reactor – Commercial Demonstration Unit on the Point Lepreau Site, Maces Bay, New Brunswick.***

1.2 General Description of Applicant

1.2.1 Name and Business Address

Licence Applicant and Complete Legal Name:

New Brunswick Power Corporation

Head Office Address:

New Brunswick Power Corporation
515 King Street
Fredericton, NB
E3B 4X1
Canada

1.2.2 Mailing Address

New Brunswick Power Corporation
515 King Street
Fredericton, NB
E3B 4X1
Canada

1.2.3 Persons who have Authority to Interact for the Applicant with CNSC

The persons who have authority to interact for the applicant with the CNSC are as follows:

President and CEO	Lori Clark
Chief Legal Officer	Jamie Petrie
Chief Nuclear Officer and Vice President Nuclear	Brett Plummer
Director of Advanced Reactor Development Program	Andy Hayward

From time to time, alternate staff may accompany any of the above.

1.2.4 Proof of Legal Status

NB Power was established in 1920 as The New Brunswick Electric Power Commission through enactment of the New Brunswick Electric Power Act by the government of the Province of New Brunswick. Further details are available through the New Brunswick Corporate Affairs Registry Database, Reference Number 22248.

1.2.5 Evidence that Applicant has Ownership of the Site

The Project will be undertaken on the Point Lepreau site, which is solely owned by NB Power, which is a provincial Crown corporation. Parcel identification numbers associated with the property are: 01231323, 55062665, 55010086, 550662657, 55062640, 00427138 and 00471136.

The instrument numbers are registered in the Registry Offices for the counties of Saint John and Charlotte for the parcels of land owned by NB Power that comprise and/or are associated with the Point Lepreau site. Copies of the Deeds of Land are provided in Appendix C.

1.2.6 Identification of Persons Responsible for Management and Control of Licence

Mr. Brett Plummer, CNO and VP Nuclear, is responsible for management and control of the licence.

1.2.7 Billing Contact Person

All invoices and statements regarding licensing fees should be forwarded to:

Brett Plummer, CNO and VP Nuclear
Point Lepreau Nuclear Generating Station
P.O. Box 600 Lepreau, New Brunswick
E5J 2S6

1.2.8 Legal Signing Authority

The Chief Nuclear Officer and Vice President Nuclear acts as the applicant authority. Correspondence should be addressed as follows:

Brett Plummer, CNO and VP Nuclear
Point Lepreau Nuclear Generating Station
P.O. Box 600 Lepreau, New Brunswick
E5J 2S6

1.2.9 Nuclear and Hazardous Substances

There will be no nuclear substances encompassed by the site preparation licence. Any site preparation activities which would require tools containing radioactive nuclear substances as defined in the *Nuclear Substances and Radiation Devices Regulations* [8] will be performed under the authority of CNSC nuclear substance and device licences.

Any hazardous substances that may be present and/or hazardous wastes generated as a result of site preparation activities will be limited to those employed during standard site preparation processes. These would include chemicals, fuel, lubricants and compressed gases used during operation and maintenance of site preparation equipment, as well as solvents and cleaners used to clean the equipment. Additional substances on-site may consist of paint, aerosol cans, oil and electrical components used in the site preparation and relocation of services and utilities, construction of support facilities, and explosives used during excavation activities.

The management of hazardous wastes, which include the storage, processing, disposal or transportation of hazardous or liquid industrial waste generated during the site preparation will comply with applicable federal and provincial requirements, such as the *Transportation of Dangerous Goods (TDG) Act* and *TDG Regulations*, *Environmental Protection Act*, General – Waste Management, O. Reg. 347, Environment and Climate Change Canada (ECCC) guidelines and waste management best practices. Spills will be reported in accordance with regulatory requirements.

2.0 General Description of the Project

This section describes the activities to be licensed and provides a short descriptive overview of the Project.

NB Power will advise the CNSC at least 30 days prior to commencement of licensed activities on-site should these not start at the time the LTPS is issued (see commitment CSP001 in Section 6.6).

2.1 Activity to be Licensed

NB Power is requesting an LTPS with the following licensed activities:

- a) Construction of site access control measures
- b) Clearing and grubbing of vegetation
- c) Excavation and grading of the site to a finished elevation of approximately +22 metres above sea level, and excavation for below ground reactor building (including dewatering of excavations)
- d) Construction of roadway(s), parking lot(s) and laydown area(s)
- e) Installation of services and utilities (domestic water, fire water, storm water drainage, sewage, electrical, communications) to service the future construction and operation of the nuclear facility
- f) Construction of administrative and support buildings inside/outside the future protected area
- g) Construction of environmental protection and monitoring systems (including groundwater monitoring wells)

The LTPS will allow NB Power to possess and use prescribed information that is required for, associated with, or will arise from the above activities, and will support potential future licensing activities.

The scope of the activities described in this section will not impede or interfere with existing Point Lepreau Nuclear Generating Station (PLNGS) operations. The design, planning and execution of the LTPS activities will include risk management to account for existing operations and related infrastructure. For example, verification of infrastructure locations (such as underground pipelines or powerlines) and developing work procedures will ensure any risks are adequately controlled and mitigated.

Site Access Control Measures

Access control may be established during site preparation to create a construction island. Fences may be used during the site preparation work to control vehicle and personnel traffic. Access control measures are described in Section 5.12.3.

Clearing and Grubbing

The land to be prepared under the licence is a partial brown field. Some additional clearing and grubbing are required for the entire footprint of the future facility including laydown areas. Clearing and grubbing of vegetation, roots and stumps will be done at locations where embankments are to be built, or excavations are to be cut, or at locations where permanent or temporary facilities/structures are to be constructed.

Appropriate erosion and sediment control measures will be installed prior to starting these activities. Any trees, brush, bushes, stumps and windfall that cannot be safely managed on-site will be disposed of/removed from site to a licensed facility or placed in a designated soil spoil area and in accordance with regulatory requirements. Industry best practices applied during clearing and grubbing activities to reduce overall environmental effects include:

- Minimizing the area to be cleared to the extent feasible
- Minimizing compaction of roots in areas that will not be cleared
- Compliance with seasonal constraints and regulatory requirements

Excavation and Grading

The site preparation activities will involve the excavation and grading of soil, rock and like material, and associated activities to facilitate its excavation and transfer to storage areas. Associated activities may include drilling and blasting. Rock excavation will include activities related to general site grading and grading for building and structure foundations. Excavation for the freshwater reservoir and the below ground reactor building will be completed. A separate application will be filed with the Ministry of Natural Resources Canada for a licence for the temporary storage and use of explosives before these activities are undertaken as set out in Section 7 of the Explosives Act. Blasting will be carried out using conventional explosives in controlled charges as required.

Excavation and grading will be by means of construction equipment such as bulldozers, excavators, front-end loaders and trucks. Depending on the suitability of the excavated soil, there may be opportunities for re-use of the excavated soil on-site.

Any conventionally contaminated soil or rock encountered will be managed according to applicable regulatory requirements. Excavated rock may be crushed for more efficient placement on-site and may be re-used to construct parking and laydown areas or as foundation backfill. Further excavation for subsurface preparation of the plant footprint will consist of soil and rock excavation cut from the level surface of the generic power block in preparation for the foundations of the new nuclear reactor and other structures, which will be built during the construction phase.

Roadway(s), Parking Lot(s) and Laydown Area(s)

An access road will be constructed to the north of the facility to prepare for the construction phase. This road will remain inside the controlled area of the PLNGS site for this phase of

licensing. Parking lot(s) and laydown area(s) will be constructed as required for site preparation activities and to prepare for the construction phase.

Installation of Services and Utilities

The installation of services and utilities will include those required during construction and those of a more permanent nature to support the future nuclear facility operations. The utilities and services installations covered by this application include:

- Freshwater water supply from the Hanson Stream Reservoir via underground conduit into the ARC SMR site
- Sanitary sewage collection within the ARC SMR site for both temporary (as required) and permanent requirements will be connected via underground conduit to a future site sewage collection system
- Electrical and communication services via underground and/or aerial cables or towers will be extended into the ARC SMR site from adjacent available networks

Administration and Support Facilities within/outside the Future Protected Area

Administration and support facilities for site preparation and later phases will be constructed and located on the property, including within the future protected area. These may include offices, workshops, storage, and utility structures.

Site preparation activities will involve construction of facility structures, systems and components (SSCs), including:

- Facility foundation structures (including excavations for construction of below grade facilities and support pilings)
- Facility intake and outlet channels and structures including cooling structures
- Non-nuclear facility SSCs, such as a water treatment plant and connections for a portable water treatment plant trailer

Environmental Protection and Monitoring Systems

Prior to commencement of site preparation activities, the 0920-00015-EV01-001-PD-A, *Environmental Management System* (EMS) will be developed (see commitment CSP006 in Section 6.6) and will provide environmental monitoring and mitigation measures as well as a plan to ensure adequate mitigation of environmental effects (see commitment CSP005 in Section 6.6). The mitigating measures will follow industry best practices to:

- Mitigate any potential effects
- Monitor environmental releases

For instance, the excavation, soil handling and transport activities can impact air quality through increased airborne particulates and may also impact surface water quality as a result of precipitation and sedimentation. Site preparation execution plans will be developed that will consider dust control, and surface water and erosion/sediment control. They may also include,

where warranted, monitoring and mitigation of noise. Contingency measures will be developed to ensure that any spills of fuels or lubricants used during site preparation activities will be arrested at the source, contained and remediated as required. Monitoring of environmental releases will include the use of groundwater monitoring wells.

2.2 Descriptive Overview

NB Power is requesting an LTPS for preparation of the ARC SMR site for a Gen IV SMR. The SMR selected by NB Power to supply the New Brunswick grid is the ARC-100 reactor, which is a sodium-cooled fast reactor that will generate between 286 MWt and 429 MWt to yield 100 to 150 MWe of electrical net output. The final determination of output will be provided in the LTC (Licence to Construct) application. The new Gen IV reactors, and in particular the ARC-100 reactor, have several key characteristics:

- Inherently safe characteristics that ensure overheating brings the reactor to a subcritical state
- Liquid metal coolant (sodium in the ARC-100 reactor) provides a large margin to boiling; and the subsequent low operating pressure reduces the driving force of radionuclides out of containment
- Lack of piping penetrations below the top of the Reactor Vessel and the inclusion of a surrounding guard vessel practically eliminates loss of coolant accidents and ensures the fuel will remain immersed in sodium
- Redundant, independent, and diverse safety systems required to remove decay heat are passive and can operate without power, cooling the reactor indirectly with air
- Used fuel can be stored in the reactor vessel until it can be transferred directly to dry storage

The activity to be licensed is “Site Preparation” with the ultimate purpose of long-term operation of an ARC-100 reactor, followed by decommissioning and abandonment of the site. As listed in Section 2.1, site preparation will involve activities on the ARC SMR site, which is within the controlled area of the PLNGS site, necessary to facilitate subsequent construction and operation of the ARC-100 reactor.

The activities encompassed by this licence application do not involve construction of a nuclear facility or nuclear structures, systems and components. The site preparation will be suitable and appropriate for one ARC-100 reactor. Information on the ARC-100 reactor design is provided in Section 5.1 of the Site Evaluation Report (SER) [9] and in the *ARC-100 Standard Plant Technical Overview (SPTO)* [10], as well as the *ARC-100 Vendor Plant Parameter Envelope (PPE)* [11].

Indicative Timeline:

An indicative schedule for the overall SMR project lifecycle, including site preparation, construction, commissioning and operation, is shown in Figure 1. The schedule shows approximate timelines for the licensing milestones associated with this Project. The ARC-100 reactor is expected to be operational by the early 2030’s.

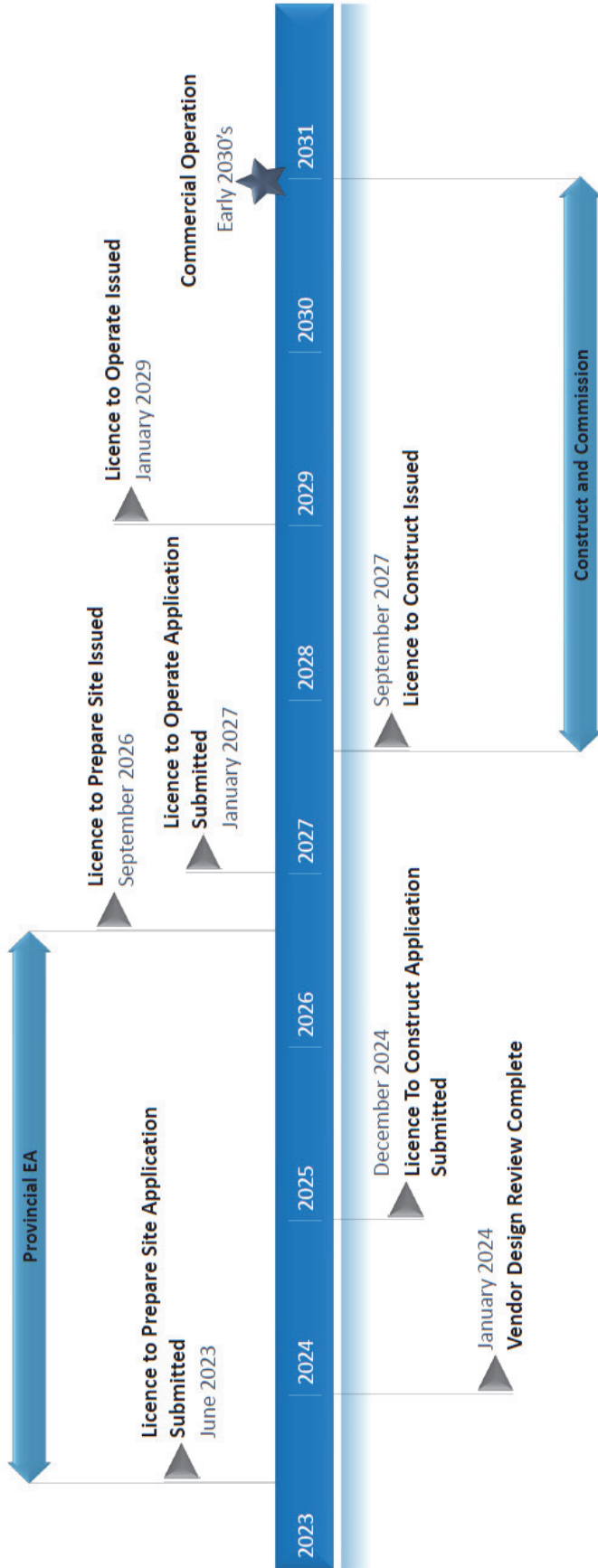


Figure 1: Indicative SMR project schedule with lifecycle licence submission and issuance milestones

3.0 Site Description

The ARC SMR site is located in New Brunswick on the Lepreau Peninsula, on the Bay of Fundy, approximately 40 km southwest of Saint John, New Brunswick and 45 km east of the Maine-New Brunswick border on Route 790, off Highway 1. The ARC SMR site will be within the existing 500-hectare (ha) Point Lepreau property (45°4'N, 66°27'W) which is the current site of the PLNGS on the Lepreau Peninsula at 122 County Line Road, Maces Bay, New Brunswick, E5J 1W1. It is approximately 0.6 km southwest of Dipper Harbour, which is the closest community to the site. The next closest community is Maces Bay, which is 1.3 km to the northwest of the property.

The property spans the boundary between the counties of Saint John and Charlotte. The rural community of Fundy Shores, formed in January 2023, combines the former Local Service Districts of Musquash and Lepreau. The property comprises parts of original Crown Grant Number 1 to Henry Corr, Crown Grant Number 2 to Thomas Loveday, Crown Grant Number 3 to John Greenwood, Crown Grant Number 4 to Manse & A. Gould, Crown Grant Number 5 to Catherine Gould, Crown Grant Number 6 to Edward Mooney, and parts of lands formerly reserved for Lighthouse and other public purposes (see Section 1.2.5).

In general, the portion of the Point Lepreau property proposed for the Project is west of the existing PLNGS. The proposed site access road branches off from the existing access road to the north. The new road will lead directly to the reactor site where it will join with existing road infrastructure nearest to the existing switchyard.

3.1 Location and Site Layout

Figure 2 shows the ARC SMR site in a nation-wide and province-wide context. Figure 3 shows a county and property map surrounding PLNGS. Figure 4 shows the ARC SMR site within the Point Lepreau site and provides the overall footprint including laydown areas and pipelines of the site preparation activities, as well as alternative locations for potential cooling towers. Figure 5 provides an indicative ARC-100 reactor layout which will be optimised as the site preparation design is undertaken. A detailed layout of specific structures and systems will be produced to support a future LTC application.



Figure 2: ARC SMR site located in Lepreau, New Brunswick, Canada



Figure 3: NB Power Property Boundary at Point Lepreau



Figure 4: ARC SMR Site Plan

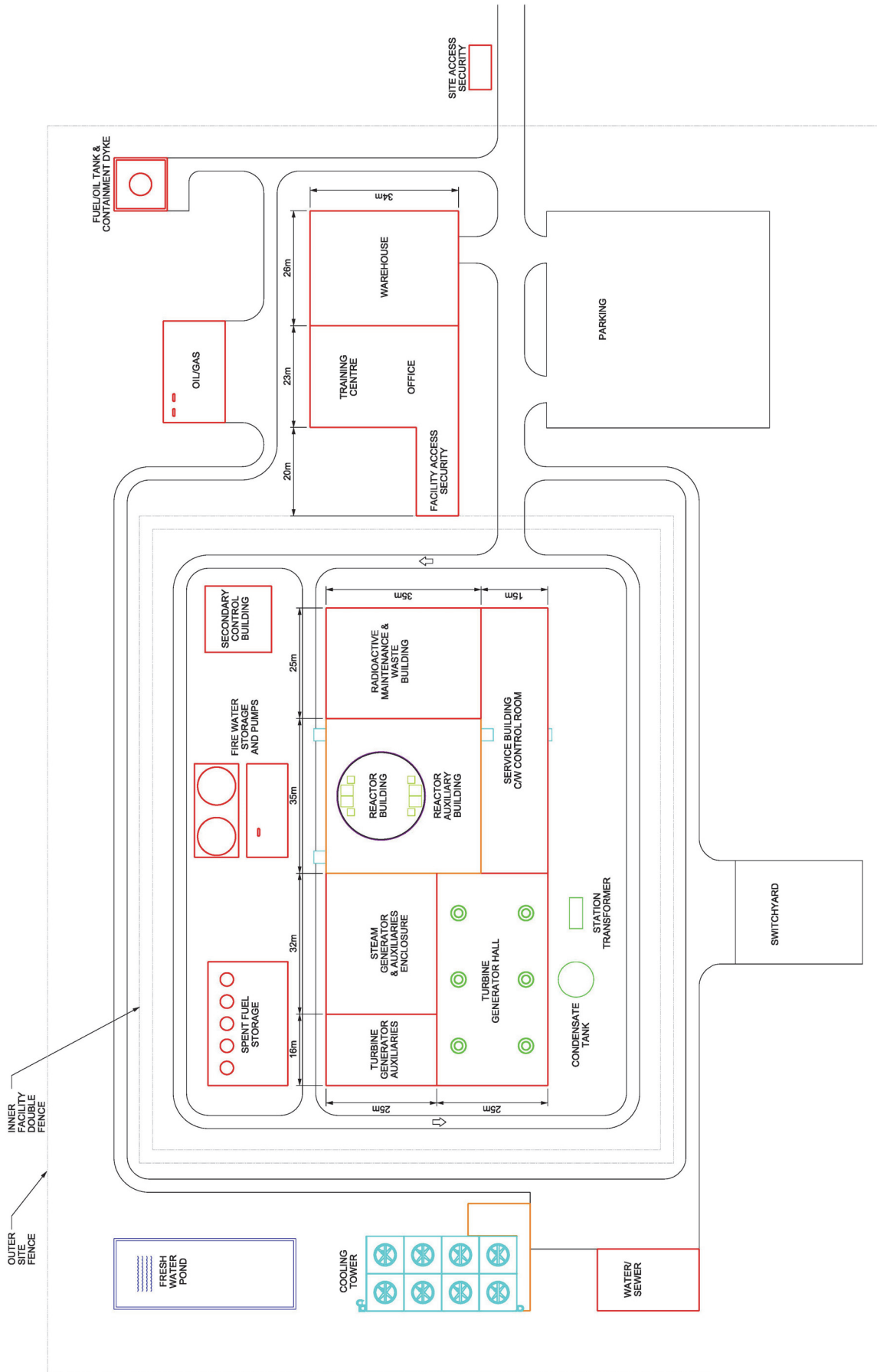


Figure 5: Indicative ARC-100 Standard Plant Site Layout (190 m x 285 m)

3.2 Environmental Risk Assessment

An Environmental Risk Assessment (ERA) is being completed for the Project and will examine the potential resulting health risks to people and the environment. The ERA includes a Human Health Risk Assessment (HHRA) which assesses risk to people who may spend time at or near the ARC SMR site, and an Ecological Risk Assessment (EcoRA), which assess risk to plants and animals located on or near the ARC SMR site. The ERA is being conducted using an approach that meets CSA N288.6-22, *Environmental Risk Assessments at Nuclear Facilities and Uranium Mines and Mills*, as well as CNSC Regulatory documents for environmental protection measures for nuclear facilities.

The ERA is being conducted in multiple phases, with each successive phase presenting a more refined estimate as information becomes increasingly available. In the first phase, Phase 1, conservative assumptions were made about which receptors may be exposed to releases from the ARC-100 reactor, how and where they may be exposed, and the environmental concentrations that they may be exposed to. In Phase 1, estimated radiological releases from the ARC-100 reactor to air and water were taken from technical design and engineering information reports prepared for the Project. The ERA combined the conservative estimates of releases from the ARC-100 reactor from these reports, with site-specific plans and knowledge, such as air and water dilution factors developed for the nearby PLNGS.

The preliminary results of the Phase 1 ERA are as follows: the Phase 1 HHRA resulted in dose estimates that are below the CNSC dose limit of 1 mSv/y for all receptors. The Phase 1 EcoRA resulted in dose estimates that are below the dose limits established for each ecological receptor. The Phase 1 ERA also looked at the combined doses to receptors from exposure to both the ARC-100 reactor and the current operations of the PLNGS. The combined dose is below the applicable CNSC dose limits. The Phase 1 ERA concluded that based on the available information, the radiological releases from normal operations of the ARC-100 reactor are not expected to result in undue risk to human or ecological receptors. NB Power has included the Phase I ERA [12] with this application.

Future phases of the ERA will incorporate new information that has been gathered as the Environmental Assessment progresses. Releases from the ARC-100 reactor will be better quantified, including data on predicted releases of chemical contaminants. Site-specific air and water dispersion models will be developed, to evaluate how releases from the ARC-100 reactor will travel through the environment to receptor locations. The human and ecological receptors will be updated, to reflect the findings of local diet surveys and Indigenous Knowledge (IK) studies, as well as Species at Risk (SAR) surveys, all currently underway. Evaluation of potential physical impacts such as habitat loss will be incorporated into the ERA. In addition, future phases of the ERA will assess potential impacts during the lifecycle of the project: site preparation, construction, operation, and decommissioning. Phase 2 of the ERA report will be provided to the CNSC (see commitment CSP003 in Section 6.6).

Section 5.9 further describes the proposed environmental protection policies, programs and procedures necessary for licenced site preparation activities as well as subsequent licensing phases.

4.0 Site Evaluation

NB Power evaluated the ARC SMR site for the lifecycle of an ARC-100 reactor and documented the results and assessment of site suitability in the SER. This section of the LTPS application summarizes the SER conclusions and presents the key findings.

The site evaluation documented in the SER was performed in accordance with REGDOC-1.1.1. The site evaluation leveraged the substantive body of information available from the historical studies developed to support continued safe operation of the existing PLNGS and supplemented the information with new additional field and technical assessments. The site evaluation covers the entire lifecycle of the ARC-100 facility and considers projected population growth and climate change. Where possible, study requirements were combined to support both the site evaluation and the parallel EIA (see Section 6.1).

In general, the initial site evaluation assessments were procured and performed under the existing PLNGS management system. Process document *Performing Site Evaluations* (0920-00015-SE01-001-PD-A) was developed during the site evaluation to provide a systematic approach to performing the site evaluation and was based on lessons learned during the initial studies. An internal assessment of this process document was performed prior to the completion of the SER and considered both the effectiveness in meeting the objectives of REGDOC-1.1.1 as well as compliance to the process requirements by each of the studies.

Site Description and Characterization

A description of the ARC SMR site is provided in Section 2 of the SER and baseline site characterization data is compiled. Existing regional and PLNGS documents were reviewed to identify available documents and any additional information required to validate site characteristics. The information considered climate change and was supplemented by additional studies and field assessments. Baseline characteristics were provided for the following topical areas: atmospheric and meteorological, geological, geophysical, hydrological, hydrogeological, biological, ambient radioactivity and non-radioactive hazardous substances, and land use.

Evaluation of Natural External Events

The natural external hazards and events arising from the site characteristics and environmental attributes were identified, screened and assessed in Section 3 of the SER. The specific risks to the public, people and environment associated with these hazards were evaluated for potential impact over the lifecycle of the ARC-100 facility. The following hazard categories were assessed, and it was determined that none of the hazards present an impediment to site suitability as proven prevention and mitigation technologies exist for addressing them:

- Climate change
- Meteorological hazards
- Surface water hazards
- Groundwater hazards
- Geotechnical hazards
- Geophysical hazards
- Biological hazards
- Natural fire hazards

Evaluation of External, Non-Malevolent, Human-Induced Events

A list of external, non-malevolent, human-induced events was developed using guidance from Canadian and international nuclear standards, and provided in Section 4 of the SER. The events, including as combinations of hazards, were screened and assessed to either have negligible incremental risk to the workers, population and environment or require mitigation through engineering solutions. Hazards associated with human activity were screened out due to the ARC SMR site's relative isolation to industry, highways, railways and pipelines. Hazards associated with electromagnetic interference, offsite releases and combinations of hazards will be mitigated in design and follow-up analysis will be performed once detailed design has been developed for the LTC submission. The analysis and mitigation in design of events arising from the existing PLNGS on the ARC-100 reactor requires further development of the design, location and orientation of the structures in preparation for the LTC submission. None of the hazards present an impediment to site suitability as proven prevention and mitigation technologies exist for addressing them. Considerations of future connections to the grid were also assessed to confirm that the location of the ARC SMR site will not adversely affect the grid.

Assessment of Non-Malevolent Accidents and Malfunctions, and of the Consequences

The assessment of internal events and their potential effects against safety goals are presented in Section 5 of the SER. The assessment is based on the extent of the initial design information and modelling available for the ARC-100 reactor. The results provide confidence that the ARC-100 design meets the following quantitative safety goals specified in Section 2.2.2 of REGDOC-2.5.2, *Design of Reactor Facilities* [13]: core damage frequency, small release frequency and large release frequency. Three out of core -scenarios were also analyzed and found to be within applicable dose limits. An evaluation of a bounding fuel handling accident will be conducted for the LTC application to ensure safety goals are met. None of the events present an impediment to site suitability as proven prevention and mitigation technologies exist for addressing them.

Effects of the Project on the Environment

The assessment of potential effects on the environment arising from the Project is presented in Section 6 of the SER. The assessment considers the effects on the following parameters: air quality, terrestrial environment (including from nuclear and hazardous substances), aquatic environment, hydrogeology, human health, and non-human biota. The predicted effects of an operating ARC-100 reactor do not indicate significant impact on habitats, groundwater, air quality, the terrestrial environment, the aquatic environment, non-human biota, and humans. None of the effects present an impediment to site suitability as proven prevention and mitigation technologies exist for addressing them.

Conclusion

The overall conclusion of the site evaluation is that the ARC SMR site is suitable for an ARC-100 reactor. The ARC-100 reactor on the ARC SMR site would not pose any unreasonable risk to the public, personnel or environment.

5.0 Safety and Control Measures

This section of the application addresses the SCAs relevant to an LTPS application.

5.1 Management System

The Management System SCA will help NB Power achieve its safety objectives, continuously monitor its performance against these objectives and foster a healthy safety culture by ensuring adequate processes and programs are implemented.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations* [14], subsections 3(1)(i) and (k) and 12(1)(a) through (j)
- *Class I Nuclear Facilities Regulations*, subsections 3(d) and 4(d)
- *REGDOC-1.1.1, Site Evaluation and Site Preparation for New Reactor Facilities*

5.1.1 Management System for Site Evaluation and Preparation

NB Power manages all aspects of its business, including site evaluation and preparation activities in accordance with the combined content of the Advanced Reactor Management Manual (AMM) and aspects of the PLNGS Management System (Table 1). The combination of the two systems (hereafter referred to as the *Management System*) demonstrates how NB Power meets regulatory requirements and CNSC expectations for the performance of programs in the 14 SCAs for site preparation. The following Sections 5.1 to 5.14 provide additional details.

NB Power commits to conformance with CSA N286-12 to the extent such requirements are applicable to the activities of site preparation. NB Power will ensure ongoing and intrusive oversight for all phases of the project through its Management System. Furthermore, NB Power requires its contractors to have their own management system compliant with applicable current standards.

The Management System is a combination of the culture and interrelated activities used to direct and perform work. It includes the management and support of personnel to enable them to implement the documented processes and ensure that activities are performed safely, consistently, and efficiently. The Management System documentation hierarchy is four-tiered, in which the AMM is the only Tier 1 document. Figure 6 shows the four tiers of the Advanced Reactor Management System's document structure.

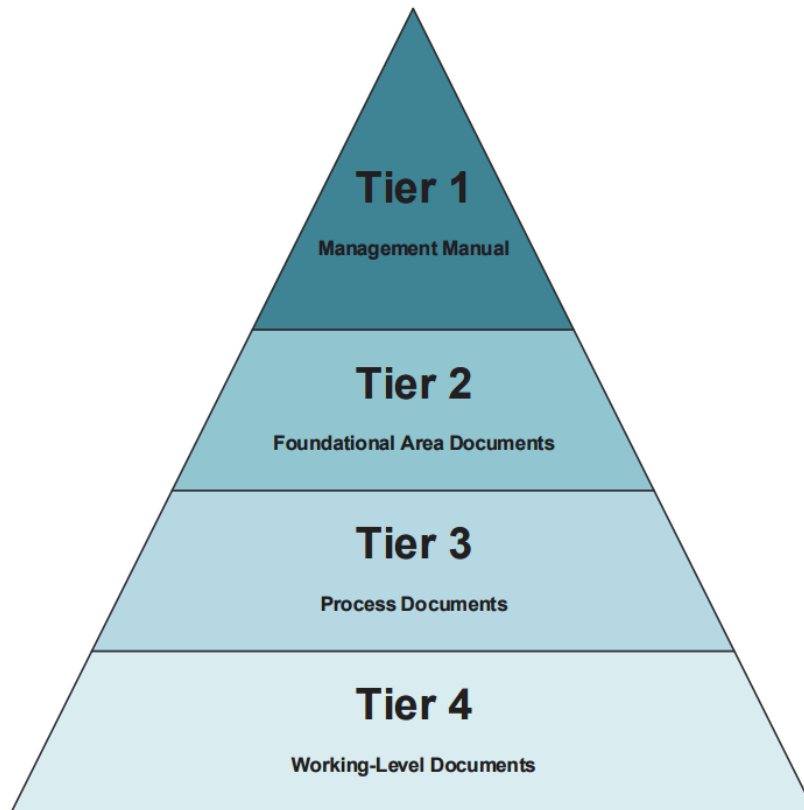


Figure 6: Advanced Reactor Management System documentation hierarchy

The Management System integrates health, safety, environment, quality, security, and economics. The following principles of CSA N286-12 are incorporated in the Management System:

- a) Safety is the paramount consideration guiding decisions and actions.
- b) The business is defined, planned, and controlled.
- c) The organization is defined and understood.
- d) Resources are managed.
- e) Communication is effective.
- f) Information is managed.
- g) Work is managed.
- h) Problems are identified and resolved.
- i) Changes are controlled.
- j) Assessments are performed.
- k) Experience is sought, shared, and used.
- l) The management system is continually improved.

There are four foundational areas in Tier 2 in the Management System as follows:

Business Management

Business Management includes provisions to define, plan, and control business objectives for alignment and integration into the Management System. Key activities documented in this foundational area include the following:

- Managing financial resources required to carry out the business plan, including provisions for financial guarantees.
- Identifying and managing risks.
- Facilitating Indigenous inclusion.
- Engaging and communicating with communities and stakeholders.
- Managing licensing requirements, including licences for site preparation, construction, operation and for the import and export of controlled nuclear substances, equipment, or information.
- Identifying and resolving problems.

The following activities will be documented in the Business Management area to address future business needs:

- Managing changes to ensure effective implementation.
- Complying with safeguards and nuclear material accounting requirements.
- Resource management, including fitness for duty requirements.
- Ensuring independent assessments are conducted to confirm the management system meets requirements and is effectively implemented.
- Reporting in accordance with acts, regulations and regulatory documents.
- Continually improving performance through trending, self-assessments, benchmarking and reviewing and sharing Operating Experience (OPEX).

Configuration Management

Configuration Management includes provisions to review and accept outputs generated by external parties. Key activities documented in this foundational area include the following:

- Evaluating candidate sites for suitability.
- Managing design requirements, integration, and acceptance.

The following activities will be documented in the Configuration Management area to address future business needs:

- Safety Analysis, including deterministic safety analysis and probabilistic safety assessments.
- Nuclear criticality safety.
- Ensuring analytical, scientific and design programs are appropriately qualified.
- Preparing approved sites for the construction of nuclear facilities.
- Ensuring construction of the facility is in accordance with approved design documents.
- Commissioning the facility to confirm the structures, systems, and components (SSCs) meet design and safety analysis requirements prior to placing the SSCs in service.
- Environmental qualification.
- Defining surveillance testing requirements.
- Managing the design basis of the facility and ensuring the requirements of applicable codes and standards are satisfied.

Facility Support

Facility Support includes provisions to support key activities throughout the lifecycle of the SMR such as information management, work planning and control, supply chain activities, environmental management, conventional health and safety, and site security and emergency management. Key activities documented in this foundational area include the following:

- Information management, including the control of documents and records.
- Supply chain activities.
- Conventional health & safety.
- Site security.
- Emergency management.

The following activities will be documented in the Facility Support area to address future business needs:

- Radiation protection.
- Work planning and control.
- Environmental management.
- Training and qualifications.

Operate and Maintain the Facility

Operate and Maintain the Facility includes provisions to perform operation, monitoring and maintenance activities such as monitoring system health, controlling the status of structures, systems and components, surveillance testing, infrequently performed operations, chemistry control, accident management instructions, and Periodic Safety Reviews. Processes in this foundational area will be developed when the organization identifies the need for these documents based on reaching established milestones and/or licensing requirements. These processes include the following:

- Operating, monitoring, and maintaining the facility within operating requirements and the safe operating envelope.
- Monitoring system health.
- Controlling the status of structures, systems and components.
- Surveillance testing.
- Infrequently performed operations.
- Chemistry control.
- Accident management instructions.
- Periodic Safety Reviews.
- Maintenance.
- Aging Management.
- Reliability.
- Periodic Inspections.

The Advanced Reactor Management System process model is presented in Figure 7. Each process has clearly defined Document Owners (see Section 5.1.5: Organization).

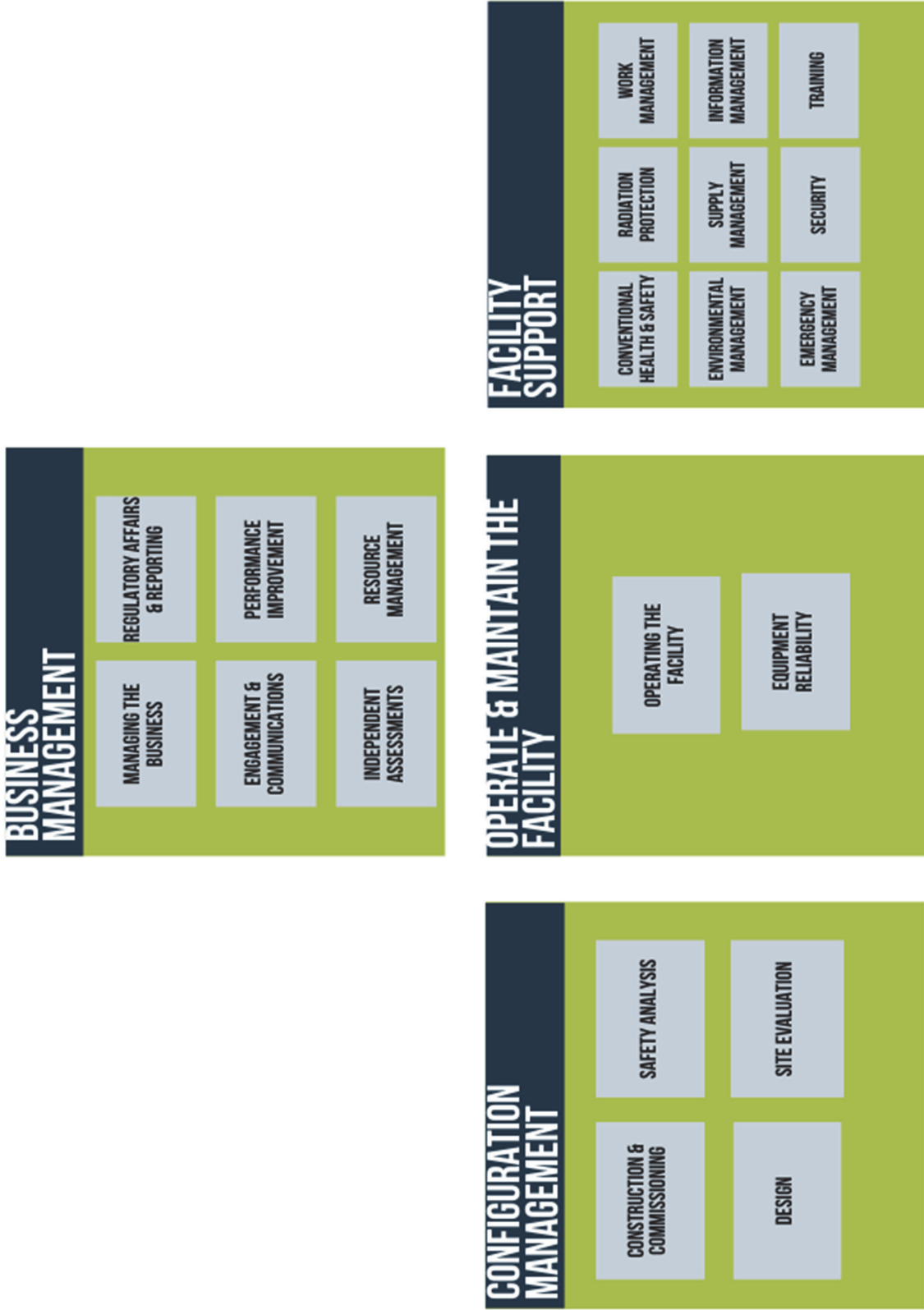


Figure 7: Advanced Reactor Management System process model

The Management System documents for the site preparation phase are listed in Table 1. Documents are developed when the need is identified based on reaching established milestones and/or licensing requirements.

Table 1: Management System documents for the site preparation phase

Advanced Reactor Management System Documents Developed	
Document Number	Title
Tier 1	
0920-00660-0001-001-AMM-A	Advanced Reactor Management Manual
Tier 2	
0920-00010-BM01-001-FAD-A	Business Management
Tier 3	
0920-00015-MB01-001-PD-A	Managing the Business
0920-00015-EC01-001-PD-A	Managing Engagement and Public Information
0920-00015-EC02-001-PD-A	Facilitating Indigenous Inclusion
0920-00015-RA01-001-PD-A	Obtaining and Maintaining Licences and Permits
0920-00015-RA02-001-PD-A	Interacting with Regulatory Agencies
0920-00015-PI01-001-PD-A	Problem Identification and Resolution
0920-00015-PI02-001-PD-A	Performing Self-Assessments and Benchmarking
0920-00015-IA01-001-PD-A	Performing Internal Independent Nuclear Oversight (under development)
Tier 4	
0920-00015-MB10-001-PROC-A	Documenting Agreements with Point Lepreau Nuclear Generating Station
0920-00015-MB11-001-PROC-A	Significant Cross-Functional Meetings
0920-00015-IA10-001-PROC-A	Conducting Independent Internal Evaluations
0920-00015-IA11-001-PROC-A	Escalating Independent Oversight Issues and Stopping Work (under development)
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
Tier 3	
0920-00015-IM01-001-PD-A	Controlling Documents
0920-00015-IM02-001-PD-A	Managing Information
0920-00015-SM01-001-PD-A	Obtaining Support from External Service Providers
0920-00015-SM02-001-PD-A	Assessing and Monitoring Supplier Performance
0920-00015-EV01-001-PD-A	Environmental Management System (under development)
Tier 4	
0920-00015-IM10-001-PROC-A	Controlling Designated and Classified Information
0920-00015-SM10-001-PROC-A	Conducting a Supplier Audit
0920-00015-SM11-001-PROC-A	Maintaining the Approved Suppliers List
0920-00015-SM12-001-PROC-A	Conducting Field Surveillances
Tier 2	
0920-00010-CM01-001-FAD-A	Configuration Management

Tier 3	
0920-00015-SE01-001-PD-A	Performing Site Evaluations
0920-00015-DS01-001-PD-A	Managing Design Requirements, Integration, and Acceptance
Tier 4	
No Tier 4 documents being developed in this area at this time.	
PLNGS Management System Documents to be Utilized¹	
Document Number	Title
Supply Management	
PLNGS Tier 3	
0087-01365-A085-001-SI-A	Assessing and Monitoring Supplier Performance
Site Security	
PLNGS Tier 2	
0087-00660-SU06-001-PRR-A	Provide Security Services
PLNGS Tier 3	
0087-01365-A094-001-SI-A	Complying with Security Requirements
PLNGS Tier 4	
0087-14000-SE13-001-SDP-A	Processing Security Clearance Applications
Conventional Health and Safety	
PLNGS Tier 3	
0087-01365-A129-001-SI-A	Providing Health and Safety Services
0087-08300-0001-001-EXP-A	Health and Safety Expectation and Requirements
0087-01368-A023-001-SDP-A	Workplace Hazardous Materials Information System (WHMIS)
0087-01368-A057-001-SDP-A	Completing a Job Hazard Analysis
0087-01368-P068-001-SDP-A	Control of Hot Work Activities
Environmental Management	
PLNGS Tier 3	
0087-01365-P102-001-SI-A	Controlling Waste
0087-08700-0006-001-EXP-A	Environmental Expectations for Station Personnel
PLNGS Tier 4	
0087-01368-EMS6-001-SDP-A	Reporting Environmental Spills, Exceedances, Non-conformances, and Complaints
Emergency Management	
PLNGS Tier 2	
0087-00660-SU05-001-PRR-A	Provide Emergency Preparedness Services
PLNGS Tier 3	
0087-01365-EP01-001-SI-A	Preparing and Maintaining the Emergency Response Plan
0087-01365-EP02-001-SI-A	Emergency Response Plan
0087-01365-A236-001-SI-A	Providing Fire Protection

Note:

1. Use of PLNGS Management System Documents is currently only under *Facility Support* (0920-00010-SU01-001-FAD-A-01).

5.1.2 Management System for Design Activities during Site Preparation

NB Power will review and accept outputs generated by external parties related to the design activities as part of the *Configuration Management* (0920-00010-CM01-001-FAD-A) process. Specifically, NB Power will:

- Manage the design basis of the facility and ensure the requirements of applicable codes and standards are satisfied.
- Ensure analytical, scientific and design programs are appropriately qualified.

NB Power has performed an audit of the technology vendor, ARC Clean Technology Inc., to verify its management system is compliant with CSA N286-12 and CSA N299.1-16, *Quality assurance program requirements for the supply of items and services for nuclear power plants, Category 1*.

5.1.3 EPC Management System

The selection and oversight of the EPC (Engineering, Procurement and Construction) Contractor(s) for Site Preparation will follow the process requirements defined in *Obtaining Support from External Service Providers* (0920-00015-SM01-001-PD-A). The process includes the following activities:

- Prepare for procurement.
- Review quote and award purchase order.
- Manage the purchase order.
- Process a change order.
- Closeout the purchase order.

NB Power will ensure the EPC Contractor(s) has a management system that is compliant with applicable current standards in accordance with its own existing management procedures. Oversight will be provided throughout execution of the work. This will include providing feedback on the service provider's performance, including safety and quality performance.

5.1.4 Human Performance and Safety Culture

The Management System demonstrates and promotes a positive safety culture at all times. Safety culture is applicable to all activities that may affect the health and safety of workers, the public, and the environment in every phase of the facility's lifecycle. NB Power is committed to providing the highest standards of health and safety to protect employees, contractors, and the general public. NB Power consistently demonstrates through words and actions that no work is so urgent or important that it cannot be performed safely and includes all aspects of safety – Nuclear, Radiological, Conventional, and Environmental. Additional information regarding the commitment to safety is described in Section 1.2 and 1.4 of the AMM.

NB Power also sets expectations for, and supports, human performance which is instrumental in understanding and promoting a safety culture. Additional details are provided in the following subsections.

5.1.4.1 Resource Management

NB Power will ensure that competent people with suitable knowledge, skills, and behaviours are available to effectively implement the Management System processes. Key activities will include maintaining the organizational structure, defining and staffing positions, managing employee performance and fitness for duty requirements.

5.1.4.2 Performance Improvement

NB Power ensures items, documents, services, and activities that do not conform to specified requirements are identified, documented, reported, and corrected, as per *Problem Identification and Resolution* (0920-00015-PI01-001-PD-A).

5.1.4.3 Training

A systematic approach to training for future licensing phases that ensures personnel are qualified will be developed and implemented prior to licensed activities occurring. NB Power will identify and select personnel based on competence criteria.

NB Power will develop a training program which will provide the structure, processes, and tools for defining, developing, implementing, documenting, assessing, and improving the training required for nuclear staff. It will ensure staff have the appropriate knowledge, skill, and attitudes for safe and efficient performance of activities throughout the lifecycle of a nuclear facility. This includes training workers for the performance of all licensed site preparation activities.

5.1.5 Organization

The organizational structure and levels of authority are defined in the AMM. Figure 8 shows the current organizational structure for the Project. The organizational structure will continue to evolve as Project activities increase and the construction phase EPC contract(s) is (are) awarded.

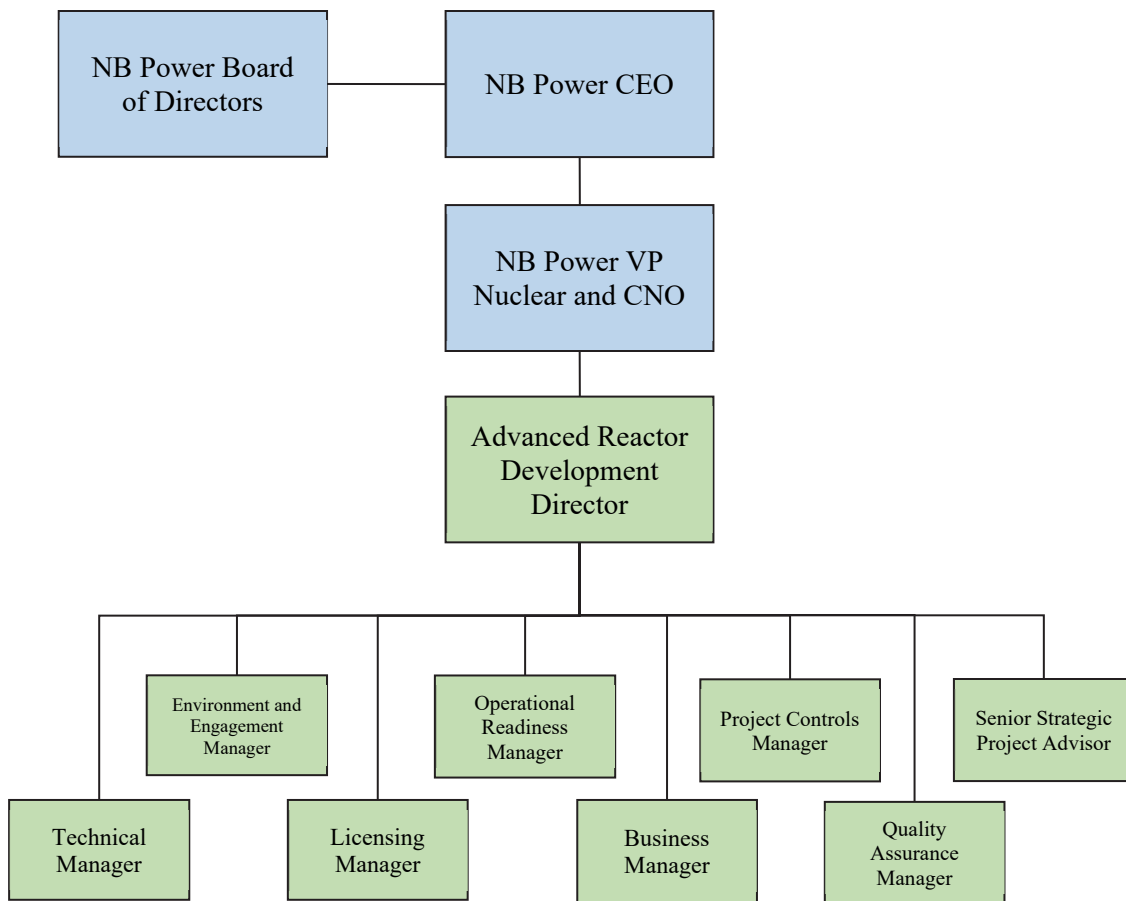


Figure 8: Organizational structure for the Project

5.1.6 Applicable Management System Documents

The documents in Table 1 of Section 5.1.1 are the applicable NB Power documents for the Management System SCA, which support the licensing basis and are to be listed in the Licence Conditions Handbook (LCH).

5.2 Human Performance Management

REGDOC-1.1.1 does not require the Human Performance Management SCA for an LTPS application. Therefore, this section is not developed further. Note that, for site preparation, basic human performance management aspects are addressed under the Management System SCA (see Section 5.1.4).

5.3 Operating Performance

The Operating Performance SCA includes an overall review of the conduct of the licensed activities and the activities that enable effective performance.

Applicable regulatory basis:

- *Class I Nuclear Facilities Regulations, subsections 4(a) and 4(e)*
- *REGDOC-1.1.1, Site Evaluation and Site Preparation for New Reactor Facilities*

The licensed activities encompassed by this LTPS application are described in Section 2.1. Characterization of the risks to health, safety and the environment that may be encountered by workers and the public will be completed during the Environmental Assessment performed for the Project. Mitigation measures for each identified risk will be reviewed and provided to the CNSC prior to the commencement of licensed activities (see commitment CSP005 in Section 6.6). The mitigation measures, when implemented, will adequately ensure no significant residual adverse environmental effects result from the site preparation activities described in this application, and will protect the workers and the public. The EMS (see commitment CSP006 in Section 6.6) and the EPC Contractor(s)'s *Safety Management System* (see Section 5.8) will ensure that the mitigation measures are implemented.

5.3.1 Applicable Management System Documents

The following documents (see Table 2) are the applicable Management System documents for the Operating Performance SCA, which support the licensing basis and are to be listed in the LCH.

Table 2: Management System documents for the Operating Performance SCA

Document	Title
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
Tier 3	
0920-00015-EV01-001-PD-A	Environmental Management System (see commitment CSP006 in Section 6.6)

5.4 Safety Analysis

The Safety Analysis SCA covers maintenance of the safety analysis that supports the Project. Safety analysis is a systematic evaluation of the potential hazards associated with the Project and considers the effectiveness of prevention measures and strategies in reducing the effects of such hazards.

Applicable regulatory basis:

- *Class I Nuclear Facilities Regulations, subsection 4(e)*
- *REGDOC-1.1.1, Site Evaluation and Site Preparation for New Reactor Facilities*

A hazard analysis will be performed for the activities under this licence (see Section 2.1), as required by REGDOC-1.1.1. The hazards will be assessed in terms of risk to the workers, public and the environment.

5.4.1 Applicable Management System Documents

The following documents (see Table 3) are the applicable Management System documents for the Safety Analysis SCA, which support the licensing basis and are to be listed in the LCH.

Table 3: Management System documents for the Safety Analysis SCA

Document	Title
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
0920-00010-CM01-001-FAD-A	Configuration Management
Tier 3	
0920-00015-EV01-001-PD-A	Environmental Management System (see commitment CSP006 in Section 6.6)

5.5 Physical Design

The Physical Design SCA relates to activities that affect the ability of SSCs to meet and maintain their design basis, given new information arising over time and considering changes in the external environment. The following subsections describe the design activities required in support of the LTPS application.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations, subsection 3(1)(d)*
- *Class I Nuclear Facilities Regulations, subsections 3(a) and (b)*
- *Nuclear Security Regulations [15], subsections 3(b)*
- *REGDOC-1.1.1, Site Evaluation and Site Preparation for New Reactor Facilities*

5.5.1 Exclusion Zone and Emergency Planning Zones

An exclusion zone is a parcel of land within or surrounding a nuclear facility on which there is no permanent dwelling and over which a licensee has the legal authority to exercise control [16]. The exclusion zone and emergency planning zones apply for the operations phase of the project. No exclusion zone, or emergency planning, is required for the site preparation activities.

Based on the Initial Safety Analysis Report [17] and the ARC-100 design [10], [11], the exclusion zone and emergency planning zones are expected to be within the existing exclusion zone and emergency planning zones, respectively, of PLNGS. Exclusion zone and emergency planning zone boundaries specific to the design of the ARC-100 will be completed as per CSP004 in Section 6.6.

5.5.2 Civil Structures and Civil Works

The licensed activities planned for site preparation are described in Section 2.1. Topographical figures in Section 3.1 present the extent of civil works as they are understood for the scope of this Project.

5.5.3 Layout of Areas, Structures, and Systems

Figures presented in Section 3.1 of this application provide the proposed layout of areas, structures, and systems of the nuclear facility to the extent practicable. NB Power will procure all required permits and licences before commencing site preparation activities. Additionally, NB Power has committed to perform a thorough evaluation of site layout opportunities before site preparation begins (see commitment CSP007 in Section 6.6).

5.5.4 Applicable Management System Documents

The following documents (see Table 4) are the applicable Management System documents for the Physical Design SCA, which support the licensing basis and are to be listed in the LCH.

Table 4: Management System documents for the Physical Design

Document	Title
Tier 2	
0920-00010-CM01-001-FAD-A	Configuration Management
0920-00010-BM01-001-FAD-A	Business Management
Tier 3	
0920-00015-RA01-001-PD-A	Obtaining and Maintaining Licences and Permits

5.6 Fitness for Service

REGDOC-1.1.1 does not require the Fitness for Service SCA for an LTPS application. Therefore, this section is not developed further.

5.7 Radiation Protection

The Radiation Protection SCA addresses the hazards associated with exposures to radioactive substances from past or present nuclear activities, as well as from the use of tools containing radioactive nuclear substances. Radiological hazards may require mitigation to maintain the safety of workers, the environment, and the public.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations, paragraphs 3(1)(e), 3(1)(f), 29(1)(b), 17(d) and 17(e)*
- *Class I Nuclear Facilities Regulations, subsection 3(g)*
- *Radiation Protection Regulations [18]*

NB Power has not requested permission to possess, transfer, use or store nuclear substances under this licence.

Workers will not be at risk of receiving radioactive doses exceeding public dose limits as a result of the licensed activities to be performed. Work done with tools containing radioactive nuclear substances will be performed under the authority of separate CNSC Nuclear Substances and Radiation Devices licence(s) and are not part of this licence.

The site preparation area is on the Point Lepreau site but there will be no measurable exposure to ionizing radiation. In the 2021 PLNGS Annual Compliance Report [19], sampling data was analyzed to monitor environmental radiation around Point Lepreau and across the province in general. The environmental monitoring locations *Construction Stores* (L04) and *Firing Range* (K10) are near the ARC SMR site (as illustrated in Section 3.1) and representative of the data to be expected at the ARC SMR site.

Radon gas is not considered a risk during site preparation activities. However, radon gas will be assessed once the facility design has advanced to include the interior air quality control systems.

5.8 Conventional Health and Safety

The Conventional Health and Safety SCA ensures adequate implementation and oversight of a program to manage workplace safety hazards and to protect personnel and equipment.

Applicable regulatory basis:

- *Class I Nuclear Facilities Regulations, subsection 3(f) and 4(e)*

NB Power is committed to providing the highest standards of health and safety to protect employees, contractors, and the general public. NB Power provides a work environment in which the risk of an individual suffering injury or workplace illness is minimized. An important element in providing a safe work environment is setting the right expectations and ensuring NB Power is working to these expectations and procedures. NB Power promotes an environment that encourages the identification and resolution of safety concerns and provides appropriate direction, training, technical support, procedures, and equipment to enable all to work safely.

NB Power will ensure adherence to all applicable Health & Safety Acts and Regulations as well as established policies and procedures. NB Power adheres to the requirements of the Corporate Safety Manual [20]. Personnel performing activities on the ARC SMR site will adhere to health and safety requirements specific to the site as documented in the Management System. All safety procedures are outlined in the Corporate Safety Manual and the Management System.

With respect to the accountabilities and responsibilities under the *New Brunswick Occupational Health and Safety Act* (OH&SA) and its Regulations, NB Power will assume the role and responsibilities of the "Owner" (OH&SA s.11), and the EPC Contractor(s) will assume the role and responsibilities of "Contractor" (OH&SA s.10). The EPC Contractor(s) will hold the legal accountability for all health and safety matters for its employees and for all sub-contractors it engages.

The EPC Contractor(s) will be required to establish and maintain a *Safety Management System* which will meet the requirements of applicable law, industry best practices, the requirements of the CNSC for the granting of the LTPS, and the conditions of approval from the EIA process. NB Power will review the *Safety Management System* through its oversight role and provide details to the CNSC (see commitment CSP008 in Section 6.6). The *Safety Management System* will include provisions for:

- Documenting and implementing the site-specific *Safety Management System*.
- Ensuring the EPC Contractor(s) meets its sole responsibility for initiating, maintaining, reviewing, revising and supervising all safety precautions and programs in respect of the Project site and tasks.
- Ensuring that the EPC Contractor(s) meets its sole responsibility to write safety procedures, provide site specific training and orientation, and supervise safety, to prevent injury to all persons while in the construction island.
- Establishing the basics of the interaction between the EPC Contractor(s) and NB Power staff to ensure safety.
- Ensuring the required safety reporting to NB Power.
- Ensuring the ongoing maintenance, revision, and review of the Safety Plan in accordance with the processes laid out in the Project Agreement.

NB Power will perform periodic monitoring/audits of the EPC Contractor(s) to ensure it complies with its own *Safety Management System* and the safety requirements of the contractual agreement.

5.8.1 Applicable Management System Documents

The following documents (see Table 5) are the applicable Management System documents for the Conventional Health and Safety SCA, which support the licensing basis and are to be listed in the LCH.

Table 5: Management System documents for Conventional Health and Safety

Document	Title
-	Corporate Safety Manual 2022
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
PLNGS Tier 3	
0087-01365-A129-001-SI-A	Providing Health and Safety Services
0087-08300-0001-001-EXP-A	Health and Safety Expectations and Requirements
0087-01368-A023-001-SDP-A	Workplace Hazardous Materials Information System (WHMIS)
0087-01368-A057-001-SDP-A	Completing a Job Hazard Analysis
0087-01368-P068-001-SDP-A	Control of Hot Work Activities

5.9 Environmental Protection

The Environmental Protection SCA covers programs that identify, control and monitor all releases of radioactive and hazardous substances and effects on the environment from facilities or as the result of licensed activities.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations, paragraphs 12(1)(c) and 12(1)(f)*
- *Class I Nuclear Facilities Regulations, subsections 3(a), 3(b), 3(c), 3(e), 3(g), 3(h), 3(j), 4(a), 4(b), 4(c), 4(d), and 4(e)*
- *Radiation Protection Regulations, subsections 4(b) and 13(1)*
- *REGDOC-2.9.1, Environmental Protection: Environmental Principles, Assessments and Protection Measures [21]*
- *CAN/CSA-ISO14001, Environmental management systems – Requirements with guidance for use (2004 edition or successor editions)*
- *CSA N288.1, Guidelines for calculating derived release limits for radioactive material in airborne and liquid effluents for normal operation of nuclear facilities*
- *CSA N288.4, Environmental monitoring programs at Class I nuclear facilities and uranium mines and mills*
- *CSA N288.5, Effluent monitoring programs at Class I nuclear facilities and uranium mines and mills*
- *CSA N288.6, Environmental risk assessments at Class I nuclear facilities and uranium mines and mills*
- *CSA N288.7, Groundwater protection programs at Class I nuclear facilities and uranium mines and mills*
- *CSA N288.8, Establishing and implementing action levels for releases to the environment from nuclear facilities*

5.9.1 General Considerations for Environmental Protection

NB Power will ensure that the site preparation activities are performed in a manner that protects the environment through the systematic evaluation of the potential environmental effects associated with all work activities, and the implementation of measures that eliminate, manage, reduce, or mitigate the risk. Environmental Protection during site preparation activities will be performed in accordance with the processes and procedures outlined in *Environmental Management System* (0920-00015-EV01-001-PD-A) (see commitment CSP006 in Section 6.6). The EMS will meet the requirements of ISO 14001:2015, *Environmental management systems - Requirements with guidance for use*. The EMS will ensure that activities and products that could impact the environment have been identified and are tracked and monitored. It will provide a transparent way for NB Power to manage and minimize any impact from its operations. Aspects that are monitored and managed to ensure the health of the ecosystem and of surrounding communities include radiological and non-radiological releases to air, soil and water, nuclear and non-nuclear waste management and emergency management. Environmental assessment and improvement programs will be developed to ensure continual improvement. The EMS will ensure that conditions of approval from the EIA process are met.

The EMS will also include the following:

- Effluent and emissions control and monitoring measures
- Environmental monitoring measures
- Groundwater protection and monitoring measures

5.9.2 Performance of Site Preparation by Different Organizations

NB Power will select an EPC Contractor(s) to prepare the site. NB Power's EMS will address the requirements for site preparation activities, including biodiversity and spills management requirements, and identify the elements delegated in whole or in part to the EPC Contractor(s). NB Power will outline the requirements and expectations of the EPC Contractor(s)'s *Environmental Management Plan* (EMP) (see commitment CSP008 in Section 6.6). Through its EMS, NB Power will ensure that the EPC Contractor(s) performs the site preparation activities in a manner that protects the environment. The EPC Contractor(s) will be required to continually and systematically evaluate all potential environmental effects associated with the work activities, and implement measures that eliminate, manage, reduce, or mitigate the risk. These activities will be carried out in accordance with the reviewed *Environmental Management Plan* submitted by the EPC Contractor(s).

NB Power will confirm that:

- The *Environmental Management Plan* satisfies Applicable Law, industry best practices, ISO 14001, and REGDOC-2.9.1.
- Objectives and targets established in the *Environmental Management Plan* will be achieved, and when not achieved, adequate corrective measures are developed and implemented to ensure that they will be achieved.
- Resources required to implement the *Environmental Management Plan* will be provided, and that the personnel performing roles and responsibilities identified in the Plan will be fulfilling those roles and responsibilities.
- The EPC Contractor(s) personnel will have the appropriate training, education, or experience necessary to perform the site preparation activities. This includes receiving awareness training of the potential environmental risks associated with the work to be performed, and the requirements for avoidance, management, and mitigation of those risks, including notification and reporting.
- The *Environmental Management Plan* will be appropriately updated to reflect changes in Applicable law, including all requirements imposed on NB Power through a licence, permit, approval or other regulatory instrument.
- Any environmental discoveries or events that potentially require a change to the site preparation activities will be identified, evaluated, and incorporated as necessary.
- Conditions of approval from the EIA process are met, as applicable.

5.9.3 Applicable Management System Documents

The following documents (see Table 6) are the applicable Management System documents for the Environmental Protection SCA, which support the licensing basis and are to be listed in the LCH.

Table 6: Management System documents for the Environmental Protection SCA

Document	Title
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
Tier 3	
0920-00015-EV01-001-PD-A	Environmental Management System (see commitment CSP006 in Section 6.6)
PLNGS Tier 3	
0087-01365-P102-001-SI-A	Controlling Waste
0087-08700-0006-001-EXP-A	Environmental Expectations for Station Personnel
PLNGS Tier 4	
0087-01368-EMS6-001-SDP-A	Reporting Environmental Spills, Exceedances, Non-conformances, and Complaints

5.10 Emergency Management and Fire Protection

The Emergency Management and Fire Protection SCA covers emergency plans and emergency preparedness programs that exist for emergencies and for non-routine conditions.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations, paragraph 3(1)(k)*
- *Class I Nuclear Facilities Regulations, subsections 3(f) and 3(j)*

NB Power will provide the capability to respond to radiological and conventional emergencies in a timely, effective, and coordinated manner. The Management System has processes in place for emergency management and fire protection during site preparation. NB Power has reviewed the Management System and confirmed that the site preparation activities have no impact on emergency management and fire protection. NB Power has concluded that the plans and processes for emergency management and fire protection provide sufficient complement to adequately address emergency response needs for both PLNGS activities and the site preparation activities. The Management System complies with REGDOC-2.10.1, *Nuclear Emergency Preparedness and Response* [22] where applicable.

NB Power has established plans and procedures to coordinate with the appropriate off-site organizations. Arrangements and agreements with offsite authorities, specific to nuclear emergencies are referenced within the Emergency Preparedness Program, including agreements with the Province of New Brunswick, Saint John County, Charlotte County, the Musquash Local Service District (LSD) and the Lepreau LSD specific to nuclear emergencies detailing planning, preparedness, coordination measures and emergency response support.

The Fire Protection Program is compliant with the latest version of CSA N293-12 (R2017), *Fire protection for nuclear power plants*.

The EPC Contractor(s) will be made aware of the emergency management and fire protection requirements while conducting LTPS activities.

5.10.1 Applicable Management System Documents

The following documents (see Table 7) are the applicable Management System documents for the Emergency Management and Fire Protection SCA, which support the licensing basis and are to be listed in the LCH.

Table 7: Management System documents for Emergency Management and Fire Protection

Document	Title
PLNGS Tier 2	
0087-00660-SU05-001-PRR-A	Provide Emergency Preparedness Services
PLNGS Tier 3	
0087-01365-EP01-001-SI-A	Preparing and Maintaining the Emergency Response Plan
0087-01365-EP02-001-SI-A	Emergency Response Plan
0087-01365-A236-001-SI-A	Providing Fire Protection

5.11 Waste Management and Decommissioning

Waste management applies to both nuclear and hazardous substances that are used or produced in the course of carrying on a licensed activity and that may pose a risk to the environment or the health and safety of persons.

This section also covers the planning for decommissioning.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations, paragraphs 3(1)(j), 3(1)(k) and 3(1)(l)*
- *Class I Nuclear Facilities Regulations, subsections 3(e), 3(k) and 4(a)*

5.11.1 Hazardous Substance and Hazardous Wastes

NB Power is committed to protecting the environment by complying with all applicable federal and provincial acts and regulations as well as minimizing the environmental impact of all activities completed during site preparation activities.

The LTPS activities will not involve handling of radioactive materials and will not generate any radioactive wastes.

Any hazardous substances that may be present and/or hazardous wastes generated as a result of site preparation activities will be limited to those employed during standard site preparation processes. These would include chemicals, fuel, lubricants and compressed gases used during

operation and maintenance of site preparation equipment, as well as solvents and cleaners. Additional substances on-site may consist of paint, aerosol cans, oil and electrical components used in the site preparation and relocation of services and utilities, construction of support facilities, and explosives used during excavation activities.

Solid wastes generated during site preparation could include items such as brush, stumps, grubbings, extra subsoil and rock, temporary fencing, signs, metal containers, canisters as well as scrap pipe, cables, welding rods, and domestic wastes. Scrap paper and other office wastes will also be generated. Construction-related waste will be transferred from the site to disposal or recycling at appropriately licensed waste management facilities.

Solid wastes will be collected and disposed of in a manner consistent with local and provincial standards.

NB Power will actively cooperate with municipal waste reduction and recycling programs and will encourage conservation throughout its facilities. Non-hazardous wastes will be separated as recyclable and non-recyclable, with recyclable material collected and transported to a licensed recycling facility. Waste management procedures are outlined in PLNGS Tier 3 *Controlling Waste* (0087-01365-P102-001-SI-A) and comply with provincial solid waste resource management regulations as well as additional municipal and disposal facility requirements. Non-recyclable wastes will also be disposed of according to PLNGS' existing waste management procedures.

5.11.2 Decommissioning

A Preliminary Decommissioning Plan (PDP) for Site Preparation [23] describes the activities that will be required to restore the site for other NB Power uses after or during the LTPS phase if the Project does not continue to the next construction phase. The PDP for Site Preparation demonstrates that decommissioning is feasible with existing technology, and it provides the basis for estimating the cost of decommissioning. The PDP for Site Preparation complies with the requirements and guidance of the CNSC as outlined in REGDOC-2.11.2, *Decommissioning* [24].

NB Power is responsible for planning, executing, and funding all phases of decommissioning of the ARC-100 facility. An initial end-of-life decommissioning plan will be prepared and submitted to support the LTC application. Some of the requirements of REGDOC-2.11.2 have been met with a graded approach at this point in the lifecycle. This plan will be reviewed and updated for future licensing stages and every five years, or as required by the CNSC, increasing in detail until a Detailed Decommissioning Plan (DDP) is prepared prior to the execution of decommissioning.

The ARC-100 facility will be designed and maintained to facilitate end-of-life decommissioning. Appropriate design requirements will result in a facility which provides suitable space and access to support complete dismantlement, should that be the chosen option for decommissioning, and minimize the quantity of material which will have to be disposed as radioactive wastes.

A Decommissioning Design guide (or set of Design Guides) will provide engineers and designers with guidance on developing and implementing decommissioning design requirements for the structures, systems and components that comprise the ARC-100 facility. The experience

obtained in the decommissioning of sodium cooled fast reactors, both in the United States and globally, has resulted in design practices which, when properly implemented, will facilitate the decommissioning of the ARC-100 facility.

The financial guarantee associated with decommissioning site preparation activities is discussed in Section 6.5 of this application.

5.11.3 Applicable Management System Documents

The following documents (see Table 8) are the applicable Management System documents for the Waste Management SCA, which support the licensing basis and are to be listed in the LCH.

Table 8: Management System documents for the Waste Management SCA

Document	Title
Tier 2	
0920-00010-BM01-001-FAD-A	Business Management
Tier 3	
0920-00015-MB01-001-PD-A	Managing the Business
PLNGS Tier 3	
0087-01365-P102-001-SI-A	Controlling Waste

5.12 Security

The Security SCA covers the programs required to implement and support the security requirements outlined in the regulations, licence, orders or expectations for the facility or activity.

The existing PLNGS security procedures and protocols will be used for site preparation activities, as outlined below. The ARC SMR site is contained within the PLNGS controlled area, but it is not within the PLNGS protected area.

The details of the Security Programs are described in the following subsection and will be adopted for the site preparation activities.

Applicable regulatory basis:

- *General Nuclear Safety and Control Regulations, paragraphs 3(1)(d), 3(1)(g), and 3(1)(h) and sections 21 through 23*
- *Class I Nuclear Facilities Regulations, subsection 3(i)*
- *Nuclear Security Regulations, section 3*

5.12.1 General Considerations for Security

Security considerations have been evaluated in the *Site Selection Threat and Risk Assessment (SSTRA)* (87SE-14000-SU06-001-IR) [25] for the site preparation under the requirements of

REGDOC-1.1.1 and applicable Regulations. The evaluation concluded the site was appropriate from a security perspective for new nuclear development.

5.12.2 Prescribed Information

Controlling Designated and Classified Information (0920-00015-IM10-001-PROC-A) governs the access to, use, storage and transmittal of prescribed and security protected information. NB Power staff, contractors, ARC, and others are required to comply with the requirements of this standard. Prescribed and security sensitive information is only provided to persons with a valid security clearance and a “need to know”.

5.12.3 Site Security Measures

NB Power will implement security measures, appropriate for each phase of the Project, in accordance with the Nuclear Security Regulations and associated regulatory documents, as well as any additional measures identified in the SSTR.

No protected area access is required for site preparation activities. During site preparation activities, the site area will be isolated with restricted access. Site access will be managed by the Management System governance and achieved by installing area fencing and signage.

5.12.4 Site Access Clearance

NB Power maintains a clearance program compliant with the Nuclear Security Regulations and REGDOC-2.12.2, *Site Access Security Clearance* [26], that will be adopted for the site preparation activities. All personnel and others who require access will be subjected to a personal screening process.

5.12.5 Security Arrangements with Offsite Response Forces

NB Power has an established Memorandum of Understanding (MOU) and Service Level Agreement (SLA) with the Royal Canadian Mounted Police (RCMP) as the off-site response for PLNGS in accordance with Nuclear Security Regulations and requirements set out in REGDOC-2.12.1, *High-Security Facilities, Volume I: Nuclear Response Force, Version 2* [27].

5.12.6 Physical Security

Physical security measures for the site preparation phase of the Project will focus primarily on site access control, as described in Section 5.12.3. Additional security measures to comply with the Nuclear Security Regulations and associated regulatory documents will be implemented during the construction and operating phases of the Project.

5.12.7 Cyber Security

In accordance with CSA N290.7-14, *Cyber Security for Nuclear Power Plants and Small Reactor Facilities*, NB Power has a Cyber Security Program for PLNGS that protects cyber essential assets that perform or impact the following:

- Functions important to nuclear safety
- Nuclear security functions
- Emergency preparedness and response functions

The Cyber Security Program for PLNGS will be adopted for the Project during site preparation activities. The SSTRAs confirm that site preparation activities for the Project have no impact on the Cyber Security Program.

5.12.8 Applicable Management System Documents

The following documents (see Table 9) are the applicable Management System documents for the Security SCA, which support the licensing basis and are to be listed in the LCH.

Table 9: Management System documents for the Security SCA

Document	Title
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
Tier 4	
0920-00015-IM10-001-PROC-A	Controlling Designated and Classified Information
PLNGS Tier 2	
0087-00660-SU06-001-PRR-A	Provide Security Services
PLNGS Tier 3	
0087-01365-A094-001-SI-A	Complying with Security Requirements
PLNGS Tier 4	
0087-14000-SE13-001-SDP-A	Processing Security Clearance Applications

5.13 Safeguards and Non-Proliferation

The Safeguards and Non-Proliferation SCA is intended to prevent the unauthorized access and distribution of nuclear substances, prescribed information and equipment, and controlled components and information. Safeguards and non-proliferation measures are set up throughout the lifecycle of the nuclear power station following Canadian Regulations and agreements with the International Atomic Energy Agency (IAEA).

Applicable regulatory basis:

- *Nuclear Non-Proliferation Import and Export Control Regulations* [28]

There will be no nuclear substances or controlled nuclear components encompassed by the LTPS requested. During site preparation activities there may be tools containing radioactive nuclear substances, however these activities will be performed under the authority of separate CNSC nuclear substance and device licences.

NB Power has programs and processes in place to meet REGDOC-2.13.2, *Import and Export* [29], as well as the control of information internally. The Tier 3 document *Obtaining and Maintaining Licences and Permits* (0920-00015-RA01-001-PD-A) is in place to obtain, renew, or amend import and export licences. NB Power will ensure that involved companies and

partners comply with the Tier 3 document *Managing Information* (0920-00015-IM02-001-PD-A) and the Tier 4 document *Controlling Designated and Classified Information* (0920-00015-IM10-001-PROC-A) which governs how information is managed, including prescribed and controlled information.

For future phases on the Project, NB Power will also ensure that involved companies and partners similarly operate in full compliance with the IAEA standards and requirements as well as with REGDOC-2.13.1, *Safeguards and Nuclear Material Accountancy* [30]. The Management System will describe how requirement such as declarations pursuant to the Additional Protocol on future plans and providing access and assistance to IAEA inspectors for complementary access will be met. Detailed design information relevant to safeguards will be provided to the CNSC in subsequent phases of the Project as they become available. The records required by safeguard agreements will be kept and disclosed as appropriate to the CNSC and IAEA inspectors. For clarity, no physical safeguards or nuclear material accountancy requirements apply during the site preparation phase as no reactor-related nuclear materials will be on the ARC SMR site.

5.13.1 Applicable Management System Documents

The following documents (see Table 10) are the applicable Management System documents for the Safeguards and Non-Proliferation SCA, which support the licensing basis and are to be listed in the LCH.

Table 10: Management System documents for the Safeguards and Non-Proliferation SCA

Document	Title
Tier 2	
0920-00010-SU01-001-FAD-A	Facility Support
0920-00010-BM01-001-FAD-A	Business Management
Tier 3	
0920-00015-RA01-001-PD-A	Obtaining and Maintaining Licences and Permits
0920-00015-IM02-001-PD-A	Managing Information
Tier 4	
0920-00015-IM10-001-PROC-A	Controlling Designated and Classified Information

5.14 Packaging and Transport

REGDOC-1.1.1 does not require the Packaging and Transport SCA for an LTPS application. Therefore, this section is not developed further.

6.0 Other Matters of Regulatory Interest

6.1 Environmental Assessment

The Project is subject to the requirements under New Brunswick's *Environmental Impact Assessment (EIA) Regulation 87-83, under the Clean Environment Act*. The Project is considered a *Project* as defined in Schedule A of the Regulation, items (b) *all electric power generating facilities with a production rating of three megawatts or more*, and (w) *all facilities for the processing of radioactive materials*. All projects undergo a Determination Review which identifies and evaluates environmental impacts and associated mitigation to reduce their significance. Once the review is complete, a decision is made to allow the Project to proceed, or to recommend a Comprehensive EIA whereby a proponent must prepare a more detailed EIA submission that will be required to undergo enhanced public, stakeholder, and First Nations engagement.

On June 30, 2023, NB Power submitted the EIA Registration Document to the EIA Branch of the DELG to initiate the EIA process. The document contained a project description, characterization of the existing biophysical and human environment, identification of potential project-environment interactions, and associated mitigation measures. The intent of the document is to provide sufficient information such that the Minister of Environment and Climate Change can complete the Determination Review within a regulated 30-day period and recommend a Comprehensive Review of the Project. An approval within the Comprehensive Review process is issued by the Lieutenant Governor in Council once all requirements of the review have been met. This approval, in addition to any other applicable provincial or federal permits, approvals or licences, is required before any physical work associated with the Project can be initiated.

6.2 Public Information and Disclosure Program

6.2.1 Public Information Program

NB Power is committed to open and transparent communication, and to ensuring information is provided in a timely manner to First Nations communities and Indigenous organizations, stakeholders, customers, and the public. NB Power outlines its process on managing engagement and public information in the Tier 3 document *Managing Engagement and Public Information* (0920-00015-EC01-001-PD-A). This process includes the development, implementation, monitoring and improvement of an *Engagement Strategy and Plan* (ECP-06-23) [31].

The *Engagement Strategy and Plan* ensures information related to the health, safety and security of persons and the environment, and other issues associated with the lifecycle of nuclear facilities, is effectively communicated to the public. Additional details are provided in Section 6.2.2.

The Tier 3 document *Managing Engagement and Public Information* (0920-00015-EC01-001-PD-A) also outlines the process for developing, monitoring, and improving a public disclosure protocol in accordance with REGDOC-3.2.1, *Public Information and Disclosure* [32]. NB Power's *Public Disclosure Protocol* for the Project will be developed

for licensed activities and posted to the public website: www.smrnb.ca (see commitment CSP009 in Section 6.6).

6.2.2 Communications – SMR Project

NB Power is responsible for developing and implementing the plan for public engagement and a public disclosure protocol as required by REGDOC 1.1.1 and REGDOC 3.2.1. As outlined in the Tier 3 document *Managing Engagement and Public Information* (0920-00015-EC01-001-PD-A), NB Power is responsible for ensuring the engagement strategy, communication plans, and the public disclosure protocol are developed, implemented, and improved. Additional details regarding NB Power's methods for public communications and engagement are provided in the following paragraphs.

Engagement Strategy and Plan

As described in Section 6.2.1, NB Power has developed an *Engagement Strategy and Plan* with the primary goal of ensuring that information related to the health, safety and security of persons and the environment, and other issues associated with the lifecycle of nuclear facilities, is effectively communicated to the public and stakeholders. Engagement also communicates the potential benefits to the economy, climate change action, as well as relaying information on other topics associated with SMRs. This provides an opportunity for interested parties to express their topics of interest (e.g., concerns or support) for the Project and to gain information about the Project.

Public stakeholders identified by NB Power for the Project include the general public and individual community members (including nearby landowners), academic institutions, youth, supply chain and related industry businesses, professional associations, not-for-profit organizations, and local governments and agencies.

Engagement Activities

Engagement activities have been ongoing since 2018, throughout the conceptual development and the pre-project phase of SMRs in New Brunswick. NB Power provides information about SMRs to the public and other interested and affected parties through various accessible channels, including the SMR website, social media, print materials, in-person events, and virtual presentations and gatherings.

Local Community Engagement

NB Power engages with local communities near the Project site through presentations at the PLNGS Community Liaison Committee meetings, SMR company booths at open houses, and participation in community events. In addition to meetings with members of the public (i.e., local citizens), NB Power has also engaged local governments, providing presentations and holding information sessions and meetings with several municipalities and townships in the local area, as well as across the province through a variety of organizations (see Section 6.4 for more details).

Industry, Academic, and Youth Engagement

NB Power has collaborated with technology developers and other organizations to communicate information about SMRs to a broader audience. A key example of this collaboration is the formation of the Atlantic Clean Energy Alliance (ACEA) in 2020. ACEA is a stakeholder consortium of project proponents from the private sector, academia, utilities, unions, First Nations communities, supply chain businesses, and government. NB Power has worked with ACEA on several public engagement initiatives, including webinars, editorial products, joint submissions, and educational resources.

Since 2020, NB Power has partnered with the New Brunswick Department of Education's Centre of Excellence for Energy (COEE) to facilitate learning opportunities for youth and educators. COEE is an initiative of the New Brunswick Department of Education and Early Childhood Development to invigorate sector-specific education in the school system. COEE facilitates virtual and experiential learning opportunities related to energy, including presentations, classroom visits, and plant tours. Nuclear-themed webinars and videos have been made accessible to all school districts within the province, and in-person presentations and tours of Point Lepreau for teachers and students have been undertaken.

NB Power and ARC have also established partnerships with post-secondary educational institutions, including the University of New Brunswick (UNB) and New Brunswick Community College (NBCC). Together they are working with UNB's Centre for Nuclear Energy Research on advanced nuclear engineering research and development and with NBCC on program and skills development to help build the next generation of nuclear workers. NB Power has also met with the University of Moncton to provide an overview of SMR development in New Brunswick. Both NB Power and ARC supply content to UNB's certificate program, Energy Fundamentals, on the topic of SMR development in New Brunswick.

SMR development in New Brunswick is expected to lead to the establishment of a new industrial supply sector. NB Power has met with numerous industry specialists, including companies and professional associations, as well as other interested organizations.

Summary of Topics of Interest

NB Power tracks public topics of interest related to advanced SMRs through the media, surveys, and direct correspondence. Primary topics raised to date relate to safety, waste management, and cost. NB Power strives to ensure that communications with the public address these topics and provide information to demonstrate how the SMR designs being developed in the province will address these topics.

NB Power has noted public topics of interest, relevant to The Project, identified during licensing renewal for the existing PLNGS and has compiled a summary of intervenors' comments. Many of the topics expressed by the public were similar to those expressed by the First Nations communities and Indigenous organizations, which are outlined in Section 6.3.1. Other topics have been compiled from community engagement, and the designation requests for a review under the federal *Impact Assessment Act (IAA)* to the federal Minister of ECCC for the proposed Project. These topics will continue to be addressed in planning future engagement activities with stakeholders during the EIA and licensing processes.

Examples of key topics of interest raised has been compiled from various sources and are presented in Table 11, along with NB Power’s current discussion points. A summary of engagements with the public and stakeholders can be found in Appendix D.

Table 11: Key topics of interest – public engagement

Item #	Topic	Interests	Discussion
1	Nuclear Safety and Security	Concerns about safety.	<p>Nuclear energy and materials are highly regulated in Canada by the CNSC. The CNSC is a world-class nuclear regulator and ensures that every nuclear power plant in Canada meets the highest levels of safety.</p> <p>Advanced small modular reactors have inherent safety characteristics and utilize the concept of passive safety. This means that they have fewer complex systems and equipment and require very little operator involvement. For example, they can bring themselves to a safe state without operator intervention.</p> <p>The CNSC licensing process will consider, among other things, whether the Proponent conforms with regulatory requirements, including appropriate safety management systems, plans and programs.</p>
2	Nuclear Safety and Security	Concerns about the effects of climate change, and that planning and preparedness is insufficient to protect human health and the environment. NB Power should be accountable to the national commitment made under <i>Canada’s Net-Zero Emissions Accountability Act</i> .	The overall purpose of the proposed ARC-100 reactor is to provide reliable low-carbon electricity. To support the environmental impact assessment (EIA) and licensing of the SMR, NB Power has completed a climate change assessment to understand potential environment-project interactions based on changing climate variables such as wind, sea level rise, and temperature changes. The results of this will inform the EIA.
3	Technology	Fuel type used.	The ARC-100 reactor uses a U-10%Zr (uranium with 10 percent by weight (wt%) zirconium) sodium-

Item #	Topic	Interests	Discussion
			bonded binary metallic fuel with an average enrichment of Uranium-235 of 13.1%.
4	Reliability	Questions about whether SMRs will be reliable.	<p>Nuclear is a predictable energy source that is available when required to provide a constant amount of electricity to the grid. On average, a nuclear power plant produces electricity 90% of the time.</p> <p>Due to their simple, inherently safe design, SMRs are expected to operate efficiently and reliably.</p>

6.2.3 Summary

NB Power recognizes that each group with an interest in the Project requires and expects different types of information and those expectations must be met in varying ways. The aim is to fully understand each stakeholder's stated purposes, as well as their interests, concerns, information needs, and expectations of involvement. NB Power considers the communication and engagement techniques best suited to each person or group and will incorporate this information into the overall strategy as engagement activities evolve.

Prior to and during the site preparation, NB Power will continue to undertake communications and engagement activities with the specific objectives of ensuring First Nations communities, Indigenous organizations, stakeholders, and the public are:

- Aware of NB Power's intention to apply for an LTPS
- Provided with a forum to discuss key topics of public interest related to the LTPS
- Aware of opportunities for public participation in the licensing process

Appendix D provides more detail on the outreach and communication activities that have occurred since 2018.

The activities to be undertaken meet the requirements outlined in REGDOC-3.2.1. The following documents (see Table 12) are the applicable Management System documents for the Public Information and Disclosure Program, which support the licensing basis and are to be listed in the LCH.

Table 12: Management System documents for Public Information and Disclosure Program

Document	Title
Tier 2	
0920-00010-BM01-001-FAD-A	Business Management
Tier 3	
0920-00015-EC01-001-PD-A	Managing Engagement and Public Information

6.3 Indigenous Engagement

6.3.1 Indigenous Engagement Program

Engagement activities with First Nations communities and Indigenous organizations have been ongoing since 2018, throughout the conceptual development and the pre-project phase of SMRs in New Brunswick. NB Power recognizes the importance of developing and fostering inclusive partnerships and long-lasting relationships throughout the lifecycle of the Project. By integrating various perspectives into project planning, NB Power aims to understand and address topics of interest, enhance inclusive decision-making, promote equity, and build support for this Project and general SMR deployment in New Brunswick.

This section provides an overview of the Indigenous engagement undertaken by NB Power to date. It summarizes the topics of interest and the support received, as well as providing an outline of planned or anticipated engagement activities.

The regulatory requirements in Section 2.2.2 of REGDOC-1.1.1 as well as REGDOC-3.2.2, *Indigenous Engagement* [33] are addressed in this section and in Appendix E, as applicable to site preparation activities.

NB Power recognizes the history, significance, distinct interests, and culture of Indigenous peoples in New Brunswick and understands the importance of building positive relationships. NB Power has a strategic approach to First Nations relations led by the Corporate First Nations Affairs team, which acts as the central point of contact within the organization for inquiries and interests or concerns. The three tenants of NB Power's strategic approach are: Engagement and Community Relations; Education, Cultural Awareness and Sensitivity; and Employment.

Across the organization, NB Power leadership and staff, together with First Nations Affairs, work with First Nations communities and organizations to foster positive relationships by addressing their topics of interest, providing customer service, facilitating the resolution of legacy issues, and undertaking consultation activities.

An *Indigenous Inclusion Plan* (IIP) (IIP-06-23) [34] has been co-developed among First Nations and NB Power to build and enhance mutually beneficial relationships with First Nations communities. This plan is a living document that, as it evolves, incorporates insight and guidance from the Wolastoqiyik/Wəlastəkwiyyik/Wolastoqey, Mi'gmaq, and Peskotomuhkati/Passamaquoddy First Nations, thereby reflecting the spirit of collaboration and mutual respect necessary for long-term, sustainable relationships.

The IIP is founded on the following five pillars:

- **Leadership:** Commit to inclusion as part of our journey and tracking our progress on accountability with metrics and targets around commitments.
- **Relationships and Culture:** Build and maintain sustainable, long-term relationships with Indigenous communities that are based on positive and meaningful connections, and early and often ongoing engagement.
- **People and Inclusion:** Create an engaged and inclusive workforce that reflects broad

diversity of Indigenous communities and peoples across our companies.

- Economic Empowerment: Advance economic reconciliation with Indigenous communities and businesses through meaningful engagement, collaboration, and partnership.
- Environmental Stewardship: Be a trusted partner in environmental stewardship and an ally in addressing climate change.

Each of the pillars aims to support the recognition of unique cultural and historical characteristics of Indigenous peoples and their world view and strives to create mutually beneficial relationships with First Nations communities and Indigenous organizations. The pillars are interdependent, with the success in one strongly influencing the other. For example, committed leadership results in respectful and sustainable relationships allowing for direct collaboration with First Nations community members and knowledge keepers to develop an ongoing integrated approach to inform the site evaluation process (Environmental Stewardship pillar). Indigenous inclusion in this process contributes to strengthening the People and Inclusion pillar by increasing capacity within the Indigenous workforce to support the nuclear industry.

First Nations Communities

There are three First Nations in New Brunswick: Wolastoqiyik/Wəlastəkwiyyik/Wolastpquey, the Mi'gmaq and the Peskotomuhkati/Passamaquoddy. The Point Lepreau site falls within the claimed Aboriginal title area of the Wolastoqiyik. The Peskotomuhkati and Mi'gmaq also assert the site as part of their respective territories. NB Power have been working with each of the three (3) First Nations at the community level, along with the consultative bodies and tribal councils.

There are sixteen (16) First Nations communities in New Brunswick:

- Wolastoqey (Maliseet) First Nations:
 - Matawaskiye/Madawaska Maliseet First Nation
 - Neqotkuk/Tobique First Nation
 - Welamukotuk/Oromocto First Nation
 - Bilijk/Kingsclear First Nation
 - Sitansisk/Saint Mary's First Nation
 - Wotstak/Woodstock First Nation
- Mi'gmaq First Nations:
 - Amlamgog/Fort Folly First Nation
 - Elsipogtog/Big Cove First Nation
 - Esgenoôpetitj/Burnt Church First Nation
 - Oinpegitjoig/Pabineau First Nation
 - L'nui Menikuk/Indian Island First Nation
 - Metepenagiag/Red Bank First Nation
 - Natoaganeg/Eel Ground First Nation
 - Tjipogtotjg/Bouctouche MicMac First Nation

- Ugpi'ganjig/Eel River Bar First Nation
- Peskotomuhkati Nation at Skutik/Peskotomuhkati (Passamaquoddy)

There are three (3) tribal councils, the Woloastoqey Tribal Council Inc., the Mawiw Council, and the North Shore Mi'gmaq District Council (NSMDC), which support areas such as education, health service delivery, employment, and procurement for their respective communities. NB Power also works with two (2) economic development organizations, the Mi'gmaq United Investment Network (MUIN) and the Joint Economic Development Initiative (JEDI).

There are four (4) consultative bodies that have been established by First Nations communities to ensure co-ordination of engagement and consultation on various topics of relevance to Indigenous peoples, including:

- Wolastoqey First Nation in New Brunswick (WNNB), which represents the six Wolastoqey First Nations
- Mi'gmawe'l Tplu'taqnn Incorporated (MTI), which represents eight Mi'gmaq First Nations in New Brunswick, excluding Elsipogtog First Nation
- Passamaquoddy Recognition Group Inc., which represents the Peskotomuhkati Nation
- Kopit Lodge, which represents Elsipogtog First Nation

In addition, NB Power has engaged several other Indigenous organizations. Details are provided in Appendix E.

Summary of Indigenous Engagement Activities

Prior to the Project, NB Power had relationships with the First Nations communities and Indigenous organizations in New Brunswick, including existing capacity agreements with consultative bodies. Building on these relationships, members of NB Power began attending pre-established meetings to introduce SMR technology and the Project at the Point Lepreau site, and discuss potential opportunities associated with SMR development. Additionally, NB Power and two (2) First Nations representatives from New Brunswick participate on the National Resources Canada (NRCan) federal SMR leadership team.

NB Power recognizes that a collaborative, inclusive program is required and has endeavoured to create such a program, acknowledging that it is an ongoing process.

To date there have been over 100 meetings involving First Nations communities and Indigenous organizations and youth. Engagement initiatives with First Nations have also included information sessions about SMRs held in many of the communities. Youth engagement activities are also included in the IIP.

EIA baseline studies have also been designed to be inclusive and incorporate Indigenous knowledge (IK) and perspectives. Where First Nations are leading studies or contributing IK or guidance to a study or assessment, the IK will be braided into the baseline studies and EIA process with the guidance of each First Nation. EIA documentation has been shared with First Nations for their review and comment prior to submission to the regulator. As part of the engagement process, a list of identified baseline studies was shared with First Nations, to provide

information about the site evaluation process and to identify interests in leading, participating, or reviewing the relevant documentation. Several of the studies undertaken to describe the baseline conditions for the EIA have been designed and planned with the participation of First Nations communities. These include the aquatic and terrestrial baseline studies, additional marine and archaeological studies to be designed and undertaken in 2023, and the on-going Sustainability and Well-being Assessment. Indigenous Land and Resource Use Studies and IK studies are being completed by each of the four (4) consultative bodies representing the three (3) First Nations.

A summary of engagement activities with First Nations communities and Indigenous organizations related to the Project is documented in Appendix E. Key activities to date are summarized in Table 13.

Table 13: Key Indigenous engagement activities

Year	Event
2018	Discussion to introduce the topic of SMRs with Wolastoqey First Nation in New Brunswick (WNNB), Mi'gmawe'l Tplu'taqnn Incorporated (MTI), the Peskotomuhkati, and Kopit Lodge.
2019	Hosted a workshop for Economic Development Officers within the sixteen First Nations communities to begin discussions about economic development and equity.
2019/2020	Scoped environmental studies for site evaluation, employing an inclusive approach. Studies required for site evaluation and EIA were shared with First Nations to identify their interest in participation/capacity-building, leading, or being informed about the proposed study. Work on these studies proceeded in accordance with this feedback.
2019/2020	Began equity discussions with WNNB and North Shore Mi'gmaq District Council (NSMDC).
2020	Drafted the first revision of an Indigenous inclusion plan and sought input and feedback from First Nations communities and Indigenous organizations.
2021	Natural Resources Canada (NRCan) established an Indigenous Advisory Council for the SMR Action Plan, including two Indigenous representatives from New Brunswick.
2022	NSMDC hosted an SMR Symposium for First Nations communities including Wolastoqey.
2022	Participated in an inclusive, collaborative SMR Supply Chain meeting, supported by Opportunities New Brunswick (ONB), Canadian Manufacturers and Exporters (CME), First Nations Power Authority (FNPA), and Atlantica Centre for Energy, and featuring speakers and participants from First Nations communities and Indigenous organizations across New Brunswick.
2022	Established a Working Group and Steering Committee for Indigenous inclusion, both including representatives from First Nations communities and Indigenous organizations in New Brunswick.
2022/2023	Initiated Indigenous inclusion through field programs to support site evaluation (to support CNSC licensing requirements) and the EIA. Refer to paragraph below for details.

Summary of Topics of Interest

A comprehensive summary of the topics of interest specific to the Project from First Nations communities and Indigenous organizations is in development through the engagement process. Topics raised to date have been identified and addressed, and additional topics will continue to be addressed as the Project progresses, and throughout the EIA and licensing processes.

Examples for identifying and addressing topics include the following:

- In June 2022, there were several meetings with the Wolastoqiyik. The communities asked questions on a range of topics, including: the transportation and disposal of nuclear waste, construction, human health, cumulative effects, impacts to Indigenous rights, and environmental impacts.
- Kopit Lodge has expressed concerns about the general Point Lepreau site's potential to impact lands and waters. A summary of concerns was outlined in the Kopit Lodge and Elsipogtog First Nation and written submission to the CNSC in relation to a licence renewal application for the PLNGS [37].
- In 2022, a summary of PLNGS Licence Renewal intervenor comments to the CNSC that related to proposed SMRs in New Brunswick was compiled.

A sampling of key topics of interest raised has been compiled from various sources and is included in Table 14, along with the NB Power's current discussion points. Topics of interest raised by First Nations communities and Indigenous organizations will continue to be addressed in future engagement activities during the EIA and licensing processes. A summary of engagement activities can be found in Appendix E.

Table 14: Key topics of interest – Indigenous engagement

Item #	Topic	Interests	Discussion
1	<p>Land Access and Traditional Use of the Land</p>	<p>The primary impact of the ARC SMR site is the loss of access to traditional lands. Site access is strictly controlled and First Nations community members are restricted from accessing the property and lands.</p> <p>Inability to practice traditional land use activities (e.g., hunting, fishing, trapping, camping, gathering).</p> <p>Effects on the ability to exercise 1) right to community health and wellbeing, 2) right to consultation/engagement (including consideration of IK), 3) right to environmental health, 4) treaty rights, 5) right to benefit from title lands (e.g., compensation for operating on traditional land), 6) right to free, prior and informed consent.</p>	<p>Indigenous Land and Resource Use and IK studies are being completed by the Wolastoqey, Mi'gmaq, and Peskotomuhkati First Nations. These studies will inform assessments on impact to Indigenous rights by each First Nation related to various considerations including loss of access to traditional lands and the right to benefit from use of resources on traditional lands.</p> <p>The proposed SMR development would be located within the existing property boundary of PLNGS. Access to the PLNGS property is strictly controlled for security and safety purposes in accordance with regulatory requirements for nuclear facilities as legislated by the NSCA and implemented by the CNSC.</p> <p>NB Power makes every effort to ensure First Nations community members are provided safe access to perform ceremonies, harvest sweetgrass, or otherwise spend time on the land. First Nation community members have provided insight regarding the presence of sweetgrass and other culturally important plant species on the property and have harvested the sweetgrass at the appropriate time of year to encourage continued growth.</p> <p>NB Power has an Indigenous engagement program which works with First Nations, as part of the IIP, to address areas of inclusion such as relationship-building, equity, and environmental stewardship. As part of conducting studies to characterize the natural environment at the Point Lepreau property for the EIA, the aquatic and terrestrial habitat characterization was Indigenous-led, and the resulting reports are braiding IK and western science together to provide a more holistic characterization of the property and surrounding environment/ecosystems.</p>
2	<p>Consultation and Engagement</p>	<p>Concern that First Nations have not been and/or will not be properly</p>	<p>NB Power is committed to meaningful engagement throughout the planning phases of the Project.</p>

Item #	Topic	Interests	Discussion
		<p>engaged or consulted, including First Nations youth.</p>	<p>As part of the EIA process, there will be various opportunities for engagement (e.g., comment on draft study guidelines, Terms of Reference, the EIA Report, and various meetings held by DELG and/or NB Power).</p> <p>Once the Project is formally registered with DELG, the Crown will have a formal duty to consult First Nations and accommodate, if appropriate (e.g., in accordance with the New Brunswick Department of Aboriginal Affairs protocol).</p> <p>An ongoing requirement for the lifecycle of an approved nuclear facility, including the Project, is continued, meaningful engagement. This is mandated by the CNSC and a condition of the operating licence. NB power would meet this requirement for an approved SMR facility.</p>
3	<p>Impacts on the Environment</p>	<p>Psychological impact related to concerns of land users consuming potentially contaminated wild foods.</p>	<p>NB Power is undertaking a Sustainability and Wellbeing Assessment related to the proposed development of the ARC-100 reactor. This study considers potential impacts to the mental wellbeing of communities, including more vulnerable sub-groups like women and children, minorities, and the elderly. First Nations will be asked to share information about their community/organization's concerns, such as psychosocial impacts. These concerns will be acknowledged, assessed, and mitigated to the extent practicable as part of the EIA studies for the overall proposed development.</p>
4	<p>Impacts on the Environment</p>	<p>Concern that the Project will impact species and species habitats for terrestrial species (including birds) and marine species (including fish).</p>	<p>As part of the EIA, several baseline studies are being completed to understand aspects such as surface and groundwater, marine species and habitat, avian, terrestrial, and aquatic habitats and species compositions, including species at risk. Indigenous Land and Resource Use and IK studies are being completed and will provide information about culturally important species, which will be braided into the EIA. This information will be used to influence the engineering, design, and location of the ARC-100 reactor and</p>

Item #	Topic	Interests	Discussion
			<p>associated infrastructure. In the case of birds, it will also be used to influence lighting and the height of infrastructure, where possible.</p> <p>The EIA and subsequent licensing process with the CNSC will consider the potential project-environment interactions for each of the components described above, among others. The conditions associated with both of these approval processes will serve to mitigate potential impacts to species and/or their habitats.</p>
5	Human Health	Short term health effects, long term intergenerational health risks, and any cumulative effects.	<p>The evaluation of short- and long-term health effects and intergenerational health risks associated with the proposed development of the ARC-100 reactor will be evaluated through the completion of various assessments, including: Human Health and Ecological Risk Assessments, Sustainability and Wellbeing Assessment, and a Cumulative Effects Assessment.</p> <p>Outputs from these assessments will inform the overall EIA and determine whether there are adverse effects on human health.</p>
6	Human Health	The risk of worker dose and resulting health impacts.	<p>The <i>Radiation Protection Regulations</i>, established by the CNSC, sets limits on the amount of radiation the public and nuclear energy workers may receive.</p> <p>Prior to the ARC-100 facility becoming operational, workers will receive specific training in radiation protection, how to measure it and detect it, and how to ensure they are protected. The radiation protection program directives will follow federal and provincial regulations and will be approved by the CNSC, the lifecycle regulator for nuclear facilities.</p>
7	Nuclear Safety and Security	Potential impacts of an accident or malfunction, including one caused or exacerbated by extreme weather events that may be influenced by climate change or an earthquake.	<p>Advanced SMRs have inherent safety characteristics and utilize the concept of passive safety. This means that they have fewer complex systems and equipment and require very little operator involvement. For example, they can bring themselves to a safe state without operator intervention.</p>

Item #	Topic	Interests	Discussion
		<p>Potential effects of an accident or malfunction on lands and air quality outside New Brunswick and outside Canada.</p> <p>Concern of individuals who live or exercise rights near the property regarding the risk of major accidents or malfunctions.</p>	<p>The CNSC is a world-class nuclear regulator and ensures that every nuclear power plant in Canada meets the highest levels of safety. The CNSC's regulatory framework addresses potential accident and malfunction scenarios with design requirements identified in their various Regulatory Documents. The Provincial EIA process will also consider potential accidents and malfunctions associated with the Project.</p> <p>A Climate Change Assessment has been completed for the Point Lepreau site that will be used to inform the safety evaluation for the proposed SMR development.</p>
8	Nuclear Safety and Security	Planning and preparedness in the case of a nuclear emergency.	Emergency response planning is a requirement for the construction and operation of a nuclear facility to ensure that adequate and timely emergency assistance is available to protect workers, the public and the integrity of site security, while mitigating adverse environmental effects in the event of an emergency.
9	Nuclear Safety and Security	Nuclear storage and waste including, potential used fuel management, storage of long-lasting nuclear waste streams, dry canister storage silos testing.	<p>The plan for used fuel from the proposed development of an ARC-100 reactor is for the used fuel to be temporarily stored in the periphery of the reactor vessel in the coolant pool for initial cooling. After a period of time, the used fuel will be removed from the reactor and loaded into a dry shielded canister which in turn is then placed into an on-site concrete module for interim storage.</p> <p>Used fuel storage locations will be provided in the reactor vessel with sufficient capacity to hold an entire core load of fuel assemblies. The intent is to transfer a fuel load following 20 years of operation. Irradiated fuel assemblies are initially transferred from the core to these used fuel storage locations using the in-vessel transfer machine. Once the used fuel assemblies are sufficiently cool, they will be extracted and transferred directly into a commercially available dry storage module.</p>

Item #	Topic	Interests	Discussion
			<p>Interim storage of used fuel within the ARC SMR site is planned for 20-year irradiation cycles and sized for 60 years plus the decommissioning phase.</p> <p>Under the Nuclear Fuel Waste Act, the NWMO is responsible for the safe, long-term management of all Canada’s used nuclear fuel, including that created using new or emerging technologies such as SMRs. Canada’s plan will be implemented over many decades, and a fundamental tenet to the approach, referred to as Adaptive Phased Management, is incorporating new knowledge and adapting to new technology. NB Power and ARC have been working with the NWMO regarding the most appropriate option for the long-term disposal of used fuel from the ARC reactor.</p>
10	Nuclear Safety and Security	Transportation of nuclear waste to and from the ARC SMR site.	<p>In Canada, the responsibility for ensuring the safe transport of used nuclear fuel is shared between the CNSC and Transport Canada. Transport Canada’s <i>Transportation of Dangerous Goods Regulations</i> deal with the transport of all classes of dangerous goods. The CNSC’s <i>Packaging and Transport of Nuclear Substances Regulations, 2015</i> are primarily concerned with the health, safety, and security of the public and the protection of the environment related to the special characteristics of radioactive material, in this case used nuclear fuel.</p> <p>The Project would comply with the regulatory requirements of the CNSC and Transport Canada.</p>
11	Nuclear Safety and Security	Concern regarding SMR technology and molten salt corroding the fuel bundle and about salt water due to sea spray corroding the facility, equipment, fuel storage.	<p>The ARC-100 reactor will undergo rigorous reviews related to design, construction, operation, and maintenance. Prevention of corrosion is an important aspect of the design.</p>

Item #	Topic	Interests	Discussion
12	Nuclear Safety and Security	Concerns regarding the proliferation of nuclear weapons, nuclear attacks, political instability and national security.	<p>The CNSC is responsible for implementing Canada’s nuclear non-proliferation policy which contains two broad, long-standing objectives:</p> <ol style="list-style-type: none"> 1. To assure Canadians and the international community that Canada’s nuclear exports do not contribute to the development of nuclear weapons or other nuclear explosive devices 2. To promote a more effective and comprehensive international nuclear non-proliferation regime <p>These commitments are met through compliance (by nuclear operators) with the NSCA.</p> <p>NB Power meets the applicable requirements for safeguards and non-proliferation for the existing PLNGS. The ARC-100 reactor will also comply with these requirements.</p>
13	Workforce	<p>The availability of a skilled workforce and continuation of jobs.</p> <p>Skilled workforce programming and support will not be included as part of the SMR development project (e.g., education, professional development, mentoring).</p>	<p>NB Power is working with the New Brunswick supply chain, both local and Indigenous, to identify education and training requirements and opportunities to support the establishment of a new industrial supply sector in the province.</p> <p>NB Power, ARC, and NB Power partners have also established partnerships with post-secondary educational institutions, including UNB and NBCC. The companies are working with UNB’s Centre for Nuclear Energy Research on advanced nuclear engineering research and development and with NBCC on program and skills development to help build the next generation of nuclear workers.</p> <p>Over the 2020 to 2035 time period, the development of SMRs in New Brunswick is projected to create approximately an average of 730 jobs per year over 15 years.</p>
14	Licensing and Approvals	The CNSC licensing process is too narrow in scope to cover cumulative,	Existing legislative frameworks (both provincial and federal) considers social, cultural, Indigenous and human rights impacts,

Item #	Topic	Interests	Discussion
		social, cultural, Indigenous and human rights impacts.	<p>including potential impacts to section 35 rights that may be caused by the Project.</p> <p>In addition to the CNSC licensing process, the provincial EIA process requires consideration of social, cultural, Indigenous and cumulative impacts and measures to avoid or mitigate those impacts. There will be provisions for an opportunity to comment on the Project as part of the provincial EIA. The Proponent will have to demonstrate that the potentially affected First Nations communities and Indigenous organizations have been given the opportunity to review and comment on the Project. During a Comprehensive EIA, there would also be an opportunity to comment on draft EIA study guidelines, Terms of Reference, and the Proponent's EIA Report, and at least one public meeting would be held.</p>
15	Licensing and Approvals	The provincial EIA process is insufficient to cover federal jurisdiction.	<p>The Impact Assessment Agency of Canada (IAAC) and Minister of Environment and Climate Change are of the view that existing legislative mechanisms are sufficient to cover federal jurisdiction such that the Project does not warrant designation under the <i>Impact Assessment Act</i>. Existing mechanisms will provide a framework to consider the potential impacts of the Project on Indigenous peoples, including health and safety, as well as potential impacts on Aboriginal and treaty rights and interests (IAAC 2022).</p> <p>Existing legislative mechanisms also provide a framework to consider any impact resulting from any change to the environment on physical and cultural heritage, the current use of lands and resources for traditional purposes, or on any structure, site, or thing that is of historical, archaeological, paleontological or architectural significance. In particular, potential effects to Indigenous peoples will be considered during assessments under</p>

Item #	Topic	Interests	Discussion
			<p>the NSCA and the provincial EIA process, which both include engagement with Indigenous communities and organizations. As well, the Province of New Brunswick confirmed that Indigenous communities and organizations will be provided with an opportunity to comment on the Project as part of the provincial EIA, as discussed in the row above.</p>
16	Licensing and Approvals	<p>Permitting requirement scope and assessments will not cover 1) changes in water intake from the Bay of Fundy, 2) climate change impacts in the assessment, especially change in ocean temperatures and impact of the thermal plume.</p>	<p>Permitting associated with new infrastructure in the Bay of Fundy, if any, will be obtained from Fisheries and Oceans Canada (DFO) if required. Changes to flow associated with the existing intake and outlet would require review by DFO and possible permitting under the <i>Fisheries Act</i> depending on the change. DFO will be a member of the Technical Review Committee for the EIA for the ARC-100 reactor.</p> <p>NB Power has carried out a climate change assessment for the Point Lepreau site which will support the EIA for the Project.</p>
17	Technology	<p>Renewable options have not been explored as viable alternatives.</p>	<p>Renewables are an important part of NB Power's clean electricity generation mix. Clean electricity makes up approximately 80% of New Brunswick's production. Of that, 40% of New Brunswick's electricity requirements come from renewable sources.</p> <p>While all carbon-free sources are important contributors to achieving 100% clean energy supply, they each play different roles in the electricity system. To ensure that New Brunswickers can count on electricity being available when they need it, supply must be effectively balanced with demand. Some renewable sources, such as wind and solar, are not able to provide electricity reliably and must be paired with a dependable source, or baseload, such as nuclear, which is available when required to provide a constant amount of electricity to the grid.</p>

Item #	Topic	Interests	Discussion
18	Technology	Inquiry surrounding choice and consideration of smaller SMR units versus SMRs.	<p>As part of the Provincial EIA process, an evaluation of the purpose, rationale and need for the undertaking, and an assessment of alternatives (i.e., renewables) will be required.</p> <p>The very small SMRs are designed for off-grid applications such as mines or remote communities such as in the northern part of Canada that rely heavily on diesel. In New Brunswick, there is a strong and stable electricity grid and thus an interested in grid-scale SMRs.</p>

Future Indigenous Engagement

NB Power will build on existing engagement and consultation strategies to work with First Nations to understand areas of concern and identify mitigation measures for potential impacts the Project may have on Indigenous peoples. These strategies will be informed by requirements identified by the DELG through the EIA process as well as specific needs of each community (e.g., method and frequency of communication, topics for discussion). NB Power will continue to work towards braiding IK into the planning and design of studies for site characterization, and the planning and assessment of the Project. NB Power will continue to work to ensure First Nations' interests and requirements are understood and considered.

Information with respect to IK will be collected and presented with guidance from First Nations communities and Indigenous organizations. NB Power will also reference the IAAC's guidance for *Assessment of Potential Impacts on the Rights of Indigenous Peoples* [39]. The assessment will give consideration to understanding historical baseline conditions associated with the ability to transfer culture (e.g., through language, ceremonies, harvesting, and teaching of sacred laws.). The assessment will describe, to the extent possible, the pre-existing impacts and cumulative effects that have already interfered with Indigenous peoples' ability to exercise rights or to pass along Indigenous cultures and cultural practices.

NB Power continues to strengthen relationships with First Nations across the province. Some examples of specific activities that are currently underway include the following:

- Indigenous Inclusion Steering Committee (includes NB members from the National SMR Action Plan Indigenous Advisory Council and Leadership Table, as well as a lead from Wolastoqey Nation in New Brunswick)
- Interactive SMR Information Sessions in First Nations communities
- Indigenous Employment Strategy is being developed with Indigenous Works Canada
- Equity discussions are occurring with several First Nations communities
- Additional Indigenous-focused Procurement /Supply Chain workshops are being planned
- Indigenous Land and Resource Use Studies and IK Studies are currently being conducted
- Aquatic and terrestrial baseline environmental studies are being completed in-part by an Indigenous-owned and operated consulting firm. First Nations community members are being integrated into these studies for capacity-building opportunities. IK keepers and Elders are visiting the Project location and providing insight to be shared in the baseline studies.
- IK will be braided with western science into the EIA and site evaluation reports, where possible.

6.3.2 Summary

NB Power will continue Indigenous engagement activities (as described in Section 6.3.1) throughout the Project. The specific objectives for these activities are outlined in Section 6.2.3. The activities to be undertaken meet the requirements outlined in REGDOC-3.2.2. NB Power will provide the CNSC with an interim status report on Indigenous engagement on a quarterly basis. The following documents (see Table 15) are the applicable Management System

documents for Indigenous Engagement, which support the licensing basis and are to be listed in the LCH.

Table 15: Management System documents for Indigenous Engagement

Document	Title
Tier 2	
0920-00010-BM01-001-FAD-A	Business Management
Tier 3	
0920-00015-EC02-001-PD-A	Facilitating Indigenous Inclusion

6.4 Intergovernmental Consultation

This section summarizes the government bodies and agencies that NB Power consulted and involved during the Project to-date (up to June 30, 2023).

During the early planning stages of the proposed development of the ARC-100 reactor, NB Power has been engaging with a number of federal and provincial government departments and agencies to increase awareness of the Project. The meetings have also created an opportunity to gain an understanding of the regulatory requirements/processes, identify funding sources to support participation of Indigenous peoples in the EIA and licensing processes, and create opportunities to inform the local supply chain of opportunities within the growing nuclear sector. Some of these departments are as follows:

New Brunswick

- Climate Change Secretariat
- Department of Aboriginal Affairs
- Department of Environment and Local Government
- Department of Natural Resources and Energy Development
- New Brunswick Energy Secretariat
- Opportunities New Brunswick

Prince Edward Island

- Department of Environment and Energy

Federal

- Atlantic Canada Opportunities Agency
- Environment and Climate Change Canada
- Impact Assessment Agency of Canada
- Indigenous Services Canada
- Natural Resources Canada
- Organization for Economic Cooperation and Development

NB Power requested and established regular pre-licensing engagement meetings with the CNSC to better understand the requirements for the LTPS application for the ARC-100 reactor. These discussions do not involve any binding decisions by either NB Power or the CNSC. A similar

meeting series has been initiated with the New Brunswick DELG and the Department of Aboriginal Affairs.

6.5 Financial Guarantee

The NSCA and its associated Regulations require that applicants make adequate provisions for the decommissioning of the site preparation activities licensed by the CNSC. REGDOC-3.3.1, *Financial Guarantees for Decommissioning of Nuclear Facilities and Termination of Licensed Activities* [40] sets out requirements and guidance for applicants and licensees regarding the establishment and maintenance of funding for the decommissioning of facilities and termination of activities licensed by the CNSC.

The financial guarantee ensures that funds are available if the licensee is unable to carry out decommissioning or termination of activities, and thereby avoiding an unfunded liability to society. For this LTPS application, the financial guarantee covers restoration of the ARC SMR site required as a result of the activities presented in Section 2.1. Some site preparation activities may be retained if deemed useful for other purposes and acceptable by the CNSC. Additional information regarding decommissioning is provided in Section 5.11.

An appropriate financial guarantee sufficient to complete all site decommissioning activities will be calculated and provided to the CNSC prior to commencement of site preparation activities (see commitment CSP0011 in Section 6.6). The financial guarantee instrument will be executed prior to any site preparation activity commencing.

6.6 NB Power Commitments

Within the first 120 days of the Provincial EIA process, formal Study Guidelines will be issued to NB Power and a corresponding Terms of Reference (ToR) (to address these guidelines) will be developed by NB Power for the DELG's review and acceptance. Public, stakeholder, and rights-holder engagement will be associated with the development of both the guidelines and ToR. However, until these Study Guidelines are received and addressed, initial studies relating to the biophysical and human environment cannot be finalized. As such, NB Power has committed in its initial submission of the EIA registration document to the DELG to provide these studies at forecasted dates (see commitments CSP0012, CSP0013, CSP0014 and CSP0015).

Additional commitments, primarily studies related to site evaluation, are also included in this LTPS application. The current level of design for the ARC-100 provides limited data in terms of radiological releases during each plant operating state. Therefore, as the design progresses and source term data are satisfactorily modelled for analysis, these studies will be finalized and issued to the CNSC (see commitments CSP002 and CSP004).

Table 16 below provides a summary of the information yet to be provided to the CNSC to supplement this application, as well as future commitments prior to site activity commencing. This list is not exhaustive as additional commitments will arise as the review process progresses through the Project.

Table 16: NB Power commitments for site preparation phase

#	Relevant Section	NB Power Commitment	Submission Date
CSP001	2.1	Advise the CNSC at least 30 days prior to commencement of licensed activities on-site should these not start at the time the LTPS is issued.	-
CSP002	SER Section 6	Provide ARC-100 dispersion modelling that will assess the representative accident sequences to determine releases of fission product and the potential releases of nuclear and hazardous substances from the facility and submit those results in a supplemental report submission to the CNSC.	Q4 2023
CSP003	3.2	Provide Phase 2 of the ERA report to the CNSC.	Q4 2023
CSP004	5.5.1	Provide the assessment of the Exclusion Zone and Emergency Planning Zone requirements and results to the CNSC.	Q1 2024
CSP005	2.1, 5.3, 6.1	Review mitigation measures for each identified risk in the Environmental Assessment and provide to the CNSC.	Prior to the commencement of licensed activities
CSP006	2.1, 5.3, 5.4, 5.9, 5.11	Provide <i>Environmental Management System</i> (0920-00015-EV01-001-PD-A) to the CNSC.	Q4 2023
CSP007	5.5.3	Perform thorough evaluation of site layout opportunities prior to site preparation.	Prior to the commencement of licensed activities
CSP008	5.8	Provide details of the EPC Contractor's Management System (including <i>Safety Management System</i> and <i>Environmental Management Plan</i>) to the CNSC.	Prior to EPC contract award
CSP009	6.2.1	Develop the <i>Public Disclosure Protocol</i> for the Project and post it to the public website: www.smrnb.ca .	Prior to the commencement of licensed activities
CSP0010	6.3.1	Provide the CNSC with all future material change updates to information contained in Section 6.3.	Ongoing
CSP0011	6.5	Calculate an appropriate financial guarantee sufficient to complete all site decommissioning activities and provide to the CNSC.	Prior to the commencement of licensed activities
CSP0012	SER Section 2.3	Provide the <i>Acoustic, Visual, Air Quality: Characterization and Assessment</i> (0920-01305-7013-001-ASD-A-00) to the CNSC.	Q4 2025 ¹
CSP0013	SER Section 2.8	Provide the <i>Aquatic Environment – Marine Study</i> (0920-01305-7011-001-ASD-A-00) to the CNSC.	Q4 2025 ¹

#	Relevant Section	NB Power Commitment	Submission Date
CSP0014	SER Section 2.6.3	Provide the <i>Baseline Soil, Sediment and Water Quality Assessment</i> (0920-01305-TBA) to the CNSC.	Q4 2023
CSP0015	SER Section 2.3	Provide the <i>Meteorological Hazards Study</i> to the CNSC.	Q2 2024

Notes:

1. Submission dates will be finalized once the provincial EIA guidelines have been issued. These are expected in Q3 2023.

6.7 Improvement Plans and Significant Future Activities

This section provides improvement plans to support the site preparation activities as well as significant future activities planned to follow a successful LTPS application process. All commitments listed in Section 6.6 will be addressed. NB Power will continue to progress through the Provincial EIA process with the end goal of approval by the Lieutenant Governor in Council. This approval, in addition to any other applicable provincial or federal permits, approvals or licences, will be obtained prior to conducting any licensed site preparation activities.

The design of the ARC-100 facility as well as the safety analysis of the design will continue to progress as NB Power advances through the licensing process. NB Power will continue to develop documents, processes and programs to meet the requirements for the following LTC and Licence to Operate (LTO) applications, when appropriate.

NB Power will continue transparent and appropriate Indigenous inclusion and public engagement throughout the Provincial EIA process and all phases of licensing.

7.0 Overall Conclusion

An SMR would maintain a reliable source of baseload nuclear power within NB Power's energy supply mix and move towards the future of nuclear energy in Canada. NB Power is requesting an LTPS to allow for the Project to advance in accordance with NB Power's current business planning assumptions for new generation capacity.

As demonstrated in this application, NB Power:

- (a) Is qualified to carry on the activities to be licensed.
- (b) Has performed a site evaluation and environmental assessment that concluded that the ARC SMR site is suitable for an ARC-100 reactor and that the ARC-100 reactor would not pose any unreasonable risk to the public, personnel or environment.
- (c) Has the necessary Management System, programs, controls, oversight, and competent people in place to safely carry out the activities to be licensed in a way that meets all regulatory requirements.
- (d) Has, and will continue, transparent and appropriate Indigenous inclusion and public engagement.
- (e) Will, in carrying on the activities to be licensed, make adequate provision for the protection of the environment, the health and safety persons and the maintenance of national security and measures required to implement international obligations to which Canada has agreed.

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9.0 Glossary

ACEA	Atlantic Clean Energy Alliance
ACR	Annual Compliance Report
AMM	Advanced Reactor Management Manual
CEO	Chief Executive Officer
CME	Canadian Manufacturers and Exporters
CNO	Chief Nuclear Officer
CNSC	Canadian Nuclear Safety Commission
COEE	Centre of Excellence for Energy
CSP	Commitment for Site Preparation
DDP	Detailed Decommissioning Plan
DELG	Department of Environment and Local Government
DFO	Fisheries and Oceans Canada
DGR	Deep Geological Repository
EA	Environmental Assessment
ECCC	Environment and Climate Change Canada
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMS	Environmental Management System
EPC	Engineering, Procurement and Construction
ERA	Environmental Risk Assessment
FNPA	First Nations Power Authority
HHRA	Human Health Risk Assessment
IAA	Impact Assessment Act
IAAC	Impact Assessment Agency of Canada
IAEA	International Atomic Energy Agency
IIP	Indigenous Inclusion Plan
IK	Indigenous Knowledge
ISO	International Organization for Standardization
JEDI	Joint Economic Development Initiative
LCH	Licence Conditions Handbook
LSD	Local Service District
LTC	Licence to Construct
LTO	Licence to Operate
LTPS	Licence to Prepare Site
MOU	Memorandum of Understanding
MTI	Mi'gmawe'l Tplu'taqnn Incorporated
MUIN	Mi'gmaq United Investment Network
Mwe	Megawatt electric
MWt	Megawatt thermal
NB	New Brunswick
NBCC	New Brunswick Community College
NRCan	Natural Resources Canada
NSCA	Nuclear Safety and Control Act
NSMDC	North Shore Mi'gmaq District Council
OH&SA	Occupational Health and Safety Act

ONB	Opportunities New Brunswick
OPEX	Operating Experience
PDP	Preliminary Decommissioning Plan
PLNGS	Point Lepreau Nuclear Generating Station
PPE	Plant Parameter Envelope
RCMP	Royal Canadian Mounted Police
SAR	Species at Risk
SCA	Safety and Controls Area
SER	Site Evaluation Report
SLA	Service Level Agreement
SMR	Small Modular Reactor
SPTO	Standard Plant Technical Overview
SSTRA	Site Selection Threat and Risk Assessment
TDG	Transportation of Dangerous Goods
UNB	University of New Brunswick
VP	Vice President
WHMIS	Workplace Hazardous Materials Information System
WNNB	Wolastogey Nation in New Brunswick

Appendix A: Licence Application Matrix – Applicable Regulations

The following table outlines the applicable regulatory requirements (excluding REGDOC-1.1.1 – see Appendix B) and the section(s) of the LTPS application that will demonstrate compliance.

General Nuclear Safety and Control Regulations		
	Requirement(s)	Application Cross-Ref.
(1)	An application for a licence shall contain the following information:	1.2.1
(a)	the applicant's name and business address;	
(b)	the activity to be licensed and its purpose;	2.1
(c)	the name, maximum quantity and form of any nuclear substance to be encompassed by the licence;	1.2.9
(d)	a description of any nuclear facility, prescribed equipment or prescribed information to be encompassed by the licence;	2.1, 2.2, 5.12
(e)	the proposed measures to ensure compliance with the Radiation Protection Regulations and the Nuclear Security Regulations;	5.7, 5.12
(f)	any proposed action level for the purpose of section 6 of the Radiation Protection Regulations;	5.7
(g)	the proposed measures to control access to the site of the activity to be licensed and the nuclear substance, prescribed equipment or prescribed information;	2.1, 5.12
(h)	the proposed measures to prevent loss or illegal use, possession or removal of the nuclear substance, prescribed equipment or prescribed information;	5.12
(i)	a description and the results of any test, analysis or calculation performed to substantiate the information included in the application;	4.0, 5.0, 6.1
(j)	the name, quantity, form, origin and volume of any radioactive waste or hazardous waste that may result from the activity to be licensed, including waste that may be stored, managed, processed or disposed of at the site of the activity to be licensed, and the proposed method for managing and disposing of that waste;	1.2.9, 5.11

Requirement(s)		Application Cross-Ref.
(k)	the applicant's organizational management structure insofar as it may bear on the applicant's compliance with the Act and the regulations made under the Act, including the internal allocation of functions, responsibilities and authority;	5.1
(l)	a description of any proposed financial guarantee relating to the activity to be licensed;	6.5
(m)	any other information required by the Act or the regulations made under the Act for the activity to be licensed and the nuclear substance, nuclear facility, prescribed equipment or prescribed information to be encompassed by the licence; and	1.0 – 6.0
(1.1)	The Commission or a designated officer authorized under paragraph 37(2)(e) of the Act, may require any other information that is necessary to enable the Commission or the designated officer to determine whether the applicant:	1.0 – 6.0
(a)	is qualified to carry on the activity to be licensed, or	
(b)	will, in carrying on that activity, make adequate provision for the protection of the environment, the health and safety of persons and the maintenance of national security and measures required to implement international obligations to which Canada has agreed.	1.0 – 6.0
	An application for the renewal of a licence shall contain (a) the information required to be contained in an application for that licence by the applicable regulations made under the Act (i.e., in this case: General Nuclear Safety and Control Regulations section 3, Class I Nuclear Facilities Regulations sections 3 and 6, and Nuclear Security Regulations section 3); and	N/A

General Nuclear Safety and Control Regulations		Application
Requirement(s)	Cross-Ref.	
(b) a statement identifying the changes in the information that was previously submitted.		N/A
(1) Every licensee shall (a) ensure the presence of a sufficient number of qualified workers to carry on the licensed activity safely and in accordance with the Act, the regulations made under the Act and the licence; (b) train the workers to carry on the licensed activity in accordance with the Act, the regulations made under the Act and the licence; (c) take all reasonable precautions to protect the environment and the health and safety of persons and to maintain the security of nuclear facilities and of nuclear substances; (d) provide the devices required by the Act, the regulations made under the Act and the licence and maintain them within the manufacturer's specifications; (e) require that every person at the site of the licensed activity use equipment, devices, clothing and procedures in accordance with the Act, the regulations made under the Act and the licence; (f) take all reasonable precautions to control the release of radioactive nuclear substances or hazardous substances within the site of the licensed activity and into the environment as a result of the licensed activity; (g) implement measures for alerting the licensee to the illegal use or removal of a nuclear substance, prescribed equipment or prescribed information, or the illegal use of a nuclear facility; (h) implement measures for alerting the licensee to acts of sabotage or attempted sabotage anywhere at the site of the licensed activity; (i) take all necessary measures to facilitate Canada's compliance with any applicable safeguards agreement; (j) instruct the workers on the physical security program at the site of the licensed activity and on their obligations under that program;		5.1 – 5.13

General Nuclear Safety and Control Regulations		
Requirement(s)		Application Cross-Ref.
	Every applicant for a licence and every licensee shall notify the Commission of (a) the persons who have authority to act for them in their dealings with the Commission;	1.2.3
	(b) the names and position titles of the persons who are responsible for the management and control of the licensed activity and the nuclear substance, nuclear facility, prescribed equipment or prescribed information encompassed by the licence; and	1.2.6, 5.1
	(c) any change in the information referred to in paragraphs (a) and (b), within 15 days after the change occurs.	N/A
	17. Every applicant for a licence and every licensee shall notify the Commission of (d) observe and obey all notices and warning signs posted by the licensee in accordance with the Radiation Protection Regulations; and (e) take all reasonable precautions to ensure the worker's own safety, the safety of the other persons at the site of the licensed activity, the protection of the environment, the protection of the public and the maintenance of the security of nuclear facilities and of nuclear substances.	5.7 – 5.9, 5.12
21	(1) Information that concerns any of the following, including a record of that information, is prescribed information for the purposes of the Act:	

General Nuclear Safety and Control Regulations	
Requirement(s)	Application Cross-Ref.
<p>(a) a nuclear substance that is required for the design, production, use, operation or maintenance of a nuclear weapon or nuclear explosive device, including the properties of the nuclear substance;</p> <p>(b) the design, production, use, operation or maintenance of a nuclear weapon or nuclear explosive device;</p> <p>(c) the security arrangements, security equipment, security systems and security procedures established by a licensee in accordance with the Act, the regulations made under the Act or the licence, and any incident relating to security; and</p> <p>(d) the route or schedule for the transport of Category I, II or III nuclear material, as defined in section 1 of the Nuclear Security Regulations.</p>	
<p>(2) Information that is made public in accordance with the Act, the regulations made under the Act or a licence is not prescribed information for the purposes of the Act.</p>	5.12
<p>22 (1) The following persons may possess, transfer, import, export or use prescribed information without a licence to carry on that activity:</p> <p>(a) a minister, employee or other person acting on behalf of or under the direction of the Government of Canada, the government of a province or any of their agencies, for the purpose of assisting themselves in exercising a power or performing a duty or function lawfully conferred or imposed on them; and</p> <p>(b) an official of a foreign government or an international agency, for the purpose of meeting obligations imposed by an arrangement made between the Government of Canada and the foreign government or international agency.</p>	

General Nuclear Safety and Control Regulations	
Requirement(s)	Application Cross-Ref.
<p>The following persons may possess, transfer or use prescribed information without a licence to carry on that activity:</p> <p>(a) a worker, for the purpose of enabling the worker to perform duties assigned by the licensee; and</p> <p>(b) a person who is legally required or legally authorized to obtain or receive the information.</p> <p>(3) For greater certainty, the exemptions established in subsections (1) and (2) relate only to the activities specified in those subsections and do not derogate from the licence requirement imposed by section 26 of the Act in relation to other activities.</p> <p>23. (1) No person shall transfer or disclose prescribed information unless the person</p> <p>(a) is legally required to do so; or</p> <p>(b) transfers or discloses it to</p> <p>(i) a minister, employee or other person acting on behalf or under the direction of the Government of Canada, the government of a province or any of their agencies, for the purpose of assisting themselves in exercising a power or performing a duty or function lawfully conferred or imposed on them,</p> <p>(ii) an official of a foreign government or an international agency, for the purpose of meeting obligations imposed by an arrangement made between the Government of Canada and the foreign government or international agency,</p> <p>(iii) a worker, for the purpose of enabling the worker to perform duties assigned by the licensee, or</p> <p>(iv) a person who is legally required or legally authorized to obtain or receive the information.</p>	<p>5.12</p>

General Nuclear Safety and Control Regulations	
Requirement(s)	Application Cross-Ref.
<p>(2) A person who possesses or has knowledge of prescribed information shall take all necessary precautions to prevent any transfer or disclosure of the prescribed information that is not authorized by the Act and the regulations made under the Act.</p>	5.12
<p>29. (1) Every licensee who becomes aware of any of the following situations shall immediately make a preliminary report to the Commission of the location and circumstances of the situation and of any action that the licensee has taken or proposes to take with respect to it:</p> <p>(b) the occurrence of an event that is likely to result in the exposure of persons to radiation in excess of the applicable radiation dose limits prescribed by the Radiation Protection Regulations;</p>	5.7

Class I Nuclear Facilities Regulations		
	Requirement(s)	Application Cross-Ref.
3.	An application for a licence in respect of a Class I nuclear facility, other than a licence to abandon, shall contain the following information in addition to the information required by section 3 of the General Nuclear Safety and Control Regulations:	3.1, 5.5
(a)	a description of the site of the activity to be licensed, including the location of any exclusion zone and any structures within that zone;	
(b)	plans showing the location, perimeter, areas, structures and systems of the nuclear facility;	3.1
(c)	evidence that the applicant is the owner of the site or has authority from the owner of the site to carry on the activity to be licensed;	1.2.5
(d)	the proposed management system for the activity to be licensed, including measures to promote and support safety culture;	5.1
(d.1)	the proposed human performance program for the activity to be licensed, including measures to ensure workers' fitness for duty;	5.1, 5.2
(e)	the name, form, characteristics and quantity of any hazardous substances that may be on the site while the activity to be licensed is carried on;	1.2.9, 5.11.1
(f)	the proposed worker health and safety policies and procedures;	5.1, 5.8
(g)	the proposed environmental protection policies and procedures;	5.1, 5.7, 5.9
(h)	the proposed effluent and environmental monitoring programs;	3.2, 5.1, 5.9
(i)	if the application is in respect of a nuclear facility referred to in paragraph 2(b) of the Nuclear Security Regulations, the information required by section 3 of those Regulations;	5.12

Class I Nuclear Facilities Regulations	
Requirement(s)	Application Cross-Ref.
(j) the proposed program to inform persons living in the vicinity of the site of the general nature and characteristics of the anticipated effects on the environment and the health and safety of persons that may result from the activity to be licensed; and	5.5, 5.9, 6.2, 6.3, 6.4
(k) the proposed plan for the decommissioning of the nuclear facility or of the site.	5.11
4. An application for a licence to prepare site for a Class I nuclear facility shall contain the following information in addition to the information required by section 3:	4.0
(a) description of the site evaluation process and of the investigations and preparatory work that have been and will be done on the site and in the surrounding area;	4.0
(b) a description of the site's susceptibility to human activity and natural phenomena, including seismic events, tornadoes and floods;	4.0
(c) the proposed program to determine the environmental baseline characteristics of the site and the surrounding area;	4.0
(d) the proposed quality assurance program for the design of the nuclear facility; and	5.1, 5.5
(e) the effects on the environment and the health and safety of persons that may result from the activity to be licensed and the measures that will be taken to prevent or mitigate those effects;	5.3, 5.7 – 5.9

Nuclear Security Regulations	
Requirement(s)	Application Cross-Ref.
<p>An application for a licence in respect of Category I or II nuclear material, other than a licence to transport, and an application for a licence in respect of a nuclear facility referred to in paragraph 2(b) shall contain the following information in addition to the information required by section 3 of the Nuclear Substances and Radiation Devices Regulations or sections 3 to 8 of the Class I Nuclear Facilities Regulations, as applicable:</p>	5.12
(a) a copy of the written protection arrangements made with a response force, referred to in section 35;	
(b) the site plan referred to in section 16;	
(c) a description of the proposed security equipment, systems and procedures;	
(d) a description of the proposed on-site and off-site communications equipment, systems and procedures;	
(e) a description of the proposed structure and organization of the nuclear security guard service, including the duties, responsibilities and training of nuclear security guards; and	
(f) the proposed plan and procedures to assess and respond to breaches of security.	
(g) the current threat and risk assessment.	

Appendix B: REGDOC-1.1.1 Mapping to Application

The following table outlines the applicable regulatory requirements from REGDOC-1.1.1 and the section(s) of the LTPS application that will demonstrate compliance.

No.	REGDOC-1.1.1 Section(s)	Application Cross-Ref.
1	Introduction	1.0, 1.1
1.1	Purpose	
1.2	Scope	
1.3	Relevant legislation	
1.4	National and international Standards	
2	Background	
2.1	Environmental assessment	6.1
2.2	Public and aboriginal engagement	6.2, 6.3, 6.4, Appendix D, Appendix E
2.3	Overview of site evaluation	4.0
2.4	Overview of site preparation	5.0
3	Site Evaluation for New Reactor Facilities	4.0
3.1	Role of site evaluation in the CNSC regulatory process	4.0
3.2	Site evaluation methodology	4.0
3.3	General criteria for site evaluation	4.0
3.4	Gathering Baseline Data	4.0
3.5	Evaluation of Natural External Events	4.0
3.6	Evaluation of External, Non-Malevolent, Human-Induced Events	4.0
3.7	Security Considerations	5.12
3.8	Management system	5.1
3.9	Decommissioning	5.11
4	Site Preparation for a New Reactor Facility	5.0
4.1	Role of site evaluation in an application for a licence to prepare site	4.0
4.2	Site preparation activities	2.1
4.3	Management system	5.1
4.4	Operating performance	5.3
4.5	Safety analysis	5.4
4.6	Physical design	5.5

No.	REGDOC-1.1.1 Section(s)	Application Cross-Ref.
4.7	Radiation protection measures	5.7
4.8	Conventional health and safety	5.8
4.9	Environmental protection	5.9
4.10	Emergency management and fire protection	5.10
4.11	Waste management	5.11
4.12	Security	5.12
4.13	Safeguards and non-proliferation	5.13
4.14	Other matters of regulatory interest	6.0, Appendix D, Appendix E
Appendix A	Licence Application Guide: Licence to Prepare Site	1.0 - 7.0
Appendix B	Site Evaluation Program and Processes	4.0
Appendix C	Baseline Data used to Evaluate Suitability Throughout the Lifecycle of the Nuclear Facility	4.0
Appendix D	Security Baseline Data – Security risks presented by the site’s location	5.12
Appendix E	Prediction of Effects of the Environment on the Project over the Lifecycle of the Nuclear Facility	4.0
Appendix F	Assessment of Non-Malevolent Accidents, and Malfunctions and of the Consequences	4.0
Appendix G	Effects of the Project on the Environment	4.0

Appendix C: Deeds of Land

FORM 902-6
11-4-74

254353

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This Indenture MADE this eighteenth day of April

in the year of our Lord one thousand nine hundred and seventy-five

BETWEEN: HENK GREENFIELD, of the Parish of Masquash, in the County of Saint John and Province of New Brunswick, and MERLE GREENFIELD, his wife, of the same place aforesaid, hereinafter called the "Grantors", of the first part;

AND: THE NEW BRUNSWICK ELECTRIC POWER COMMISSION, a Crown Corporation, by virtue of the Electric Power Act, Chapter E-5, of the Revised Statutes of New Brunswick, 1973, hereinafter called the "Grantee", of the second part;

APPROVED FOR
REGISTRATION
[Signature]
For - Development Officer
Province of New Brunswick
[Signature] 30.1.75
Date

WITNESSETH, That the said Grantor

for and in consideration of the sum of One Dollar (\$1.00) lawful money of Canada to them in hand well and truly paid, at or before the executing and delivery of these presents, by the said Grantee, the receipt whereof is hereby acknowledged have granted, bargained, sold, aliened, released, conveyed and confirmed: and by these Presents do grant bargain, sell, alien, release, convey and confirm unto the said Grantee its Successors HERE and Assigns

All that certain lot, piece and parcel of land situate, lying and being in the Parish of Masquash, in the County of Saint John, bounded and described as follows:

Beginning at the intersection of the northern right-of-way limits of the Macas Bay-Dipper Harbour crossroad with the southeasterly boundary line of lands owned by the Grantee herein and being a portion of lands formerly owned by Mrs. Irene Clark; thence from the place of beginning extending in an easterly direction along the northerly right-of-way limits of the Macas Bay-Dipper Harbour crossroad a distance of seven hundred ninety (790) feet, more or less, or to the southwesterly limits of lands owned or allegedly owned by the Macas Bay Cemetery Corporation; thence extending in a northerly direction along the westerly boundary line of the Macas Bay Cemetery Corporation lands a distance three hundred thirty (330) feet to the northerly extremity of the Macas Bay Cemetery Corporation Limited lands; thence extending in a westerly direction along the prolongation of the northerly or rear line of the Macas Bay Cemetery

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Corporation Limited lands a distance of forty (40) feet, more or less, or to a point measured six hundred ninety (690) feet east of and perpendicular to the aforementioned southeasterly boundary line of lands formerly owned by Mrs. Irene Clark and now owned by the Grantee herein; thence extending in a northeasterly direction and maintaining a perpendicular distance of six hundred ninety (690) feet from and east of the aforementioned southeasterly boundary line of lands owned by the Grantee herein and formerly owned by Mrs. Irene Clark a distance of one thousand four hundred eighty-five (1,485) feet, more or less, or to the northerly high water mark of Dipper Harbour Creek; thence extending in a westerly direction along the northerly high water mark of Dipper Harbour Creek a distance of seven hundred twenty-five (725) feet, more or less, until the southerly boundary line of lands owned by the Grantee herein; thence extending in a southwesterly direction along the southeasterly boundary line of the Grantee herein a distance of one thousand eight hundred and twenty (1,820) feet, more or less, to the place of beginning, and being a portion of those lands and premises conveyed to the Grantors herein by William Clifford Thompson and Patricia Gail Thompson by deed dated December 21, 1966 and duly recorded in the Saint John County Record Office on July 11th, 1967 in Book No. 569 at pages 412-415 as number Z11841.

APPROVED FOR
REGISTRATION
[Signature]
For - Development Officer
Province of New Brunswick
[Signature] 29.11.75
Date

together with all Houses, Out-Houses, Barns, Buildings, Edifices, Fences, Improvements, Profits, Privileges, and Appurtenances to the same belonging or in any manner appertaining; and the Reversion and Reversions, Remainder and Remainders, Rents, Issues and Profits thereof; and also the Estate, Right, Title, Dower, Right and Title to Dower

Interest, Use, Possession, Property, Claim and Demand, either at Law or in Equity, of the said Grantor or of him, his heirs, assigns, or of any other person, and every part and parcel thereof, with the Appurtenances.

TO HAVE AND TO HOLD the said Lot, Piece or Parcel of Land and Premises hereby granted, bargained and sold, or meant, mentioned or intended as to be, and every part and parcel thereof, with the Appurtenances unto the said Grantee, its Successors, Heirs and Assigns, to the only proper use, benefit and behoof of the said Grantee, ~~its Successors~~ its Successors and Assigns **FOREVER**.

IN WITNESS WHEREOF, the said Grantor hereunto set their Hands and Seals the day and year first above written.

Signed, sealed and delivered }
 in the presence of

[Handwritten signature]

Henk Greenfield
Mary Greenfield



910

PROVINCE OF NEW BRUNSWICK
St. John COUNTY, SS.

I hereby certify that on this *fourteenth* day of
April in the year of our Lord One Thousand Nine Hundred
and Seventy-five, at the *Village of Browns Harbour*
City of Saint John
in the County of St. John and Province of New Brunswick,
personally appeared before me, the undersigned,

HEMI GREENFIELD AND MERLE GREENFIELD

the within named Grantor s ,

who severally acknowledged that they executed the
within Indenture as and for their act and deed freely and
voluntarily for the uses and purposes therein expressed and
contained,

IN TESTIMONY WHEREOF, I, the said
Notary Public, have hereunto set
my hand and affixed my Notarial
Seal of Office at the City
of Saint John
the day and year in this certificate
above written.



.....
Notary Public

I CERTIFY that the within
is duly entered and registered in the Registry Office for the County of Saint
John, New Brunswick at *11:00* o'clock P. M. of the *7th*
day of *May* A. D. 1975 at Number *254353*
in Book Number *6751* Page Number
907
910 *Carl M. Redstone*
D.H. Registrar of Deeds

848

268880

THIS INDENTURE made this 28th day of April

in the Year of Our Lord One Thousand Nine Hundred and Seventy-seven:

B E T W E E N: HER MAJESTY THE QUEEN in right of the Province of New Brunswick as represented by the Honourable Roland C. Boudreau, Minister of Natural Resources for the said Province, hereinafter called the Grantor, of the First Part;

A N D: THE NEW BRUNSWICK ELECTRIC POWER COMMISSION, a Crown Corporation by virtue of the Electric Power Act, Chapter E5, R.S.N.B., 1973, hereinafter called the Grantee, of the Second Part;

WHEREAS the Administration and Control of certain lands hereinafter described have by P. C. 1976-2868 dated November 18, 1976 been conveyed by His Excellency The Governor General in Council, on the recommendation of the Minister of Transport, pursuant to subsection 4(2) of the Public Land Grants Act, to Her Majesty in right of the Province of New Brunswick subject to the following conditions:

(1) that the land will be used solely for the purpose of establishing a Nuclear Generating Station and will not be developed otherwise and if the subject land should cease to be used for the stated purpose, the administration and control shall revert to Her Majesty in right of Canada; and

(11) that the transfer is subject to the Department of Transport retaining the right of access over the said lands to the lighthouse station by way of the existing roadway or any alternative access road to be established;

AND WHEREAS by order of the Lieutenant-Governor in Council dated March 23rd 1977 and under authority of An Act Respecting the Executive Administration of the Laws of this Province, Chapter VII, S2 Victoria, 1889 the transfer of administration and control has been accepted and further that authorization has been given the grantor to transfer to the grantee the hereinafter described lands subject to the same conditions as set out above.

WITNESSETH that the said Grantor for and in consideration of the above and the sum of One Dollar (\$1.00) of lawful money of Canada, to the Grantor in hand well and truly paid at or before the sealing and

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.../2

...2...

delivery of these presents by the said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, released, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, release, convey and confirm unto the said Grantee, its Successors and Assigns.

"ALL right, title and interest of Her Majesty the Queen in right of Canada, in two (2) lots of land at Point Lepreau in the Counties of Charlotte and Saint John as shown on Plan of Survey No. S-177 as prepared by the Department of Public Works on May 18, 1973 and signed by D. E. Black, N.B.L.S. Lot No. 1 containing 2.81 acres more or less and Lot No. 2 containing 373.57 acres more or less, both lots being previously reserved for a lighthouse and other public uses.

EXCEPTING THEREOUT AND THEREFROM that certain lot of land as shown on Survey Plan No. 89-7 dated May 1974, accepted June 19, 1974, as prepared by E. R. Jamieson, N.B.L.S.

TOGETHER WITH the appurtenances thereunto belonging and all the estate, right, title and interest, of the Grantor of, in and to the same as was acquired by Her Majesty the Queen in right of the Province under P. C. 1976-2868, as hereinbefore recited; except and reserved nevertheless out of this present conveyance to the Grantor all Coals and also all Gold and Silver and other Mines and Minerals.

TO HAVE AND TO HOLD the aforesaid land and premises with the appurtenances (except before excepted) unto and to the use of the said Grantee, its Successors and Assigns, FOREVER.

IN WITNESS WHEREOF the said Honourable Roland C. Boudreau, as such Minister has hereunto set his hand and the seal of the Department has been affixed by the hand of R. E. Hanusiak, Deputy Minister of the said Department.

SIGNED, SEALED AND DELIVERED)
In the Presence Of:)

R. E. Hanusiak)

Roland C. Boudreau
MINISTER OF NATURAL RESOURCES
PROVINCE OF NEW BRUNSWICK



850

PROVINCE OF NEW BRUNSWICK, S. S.

I, R. E. Hanusiak of the City of Fredericton in the Province of New Brunswick, Deputy Minister of the Department of Natural Resources make oath and say as follows:

1. That I am the Deputy Minister of Natural Resources of the Province of New Brunswick, and as such am the proper officer having charge of the Seal of the said Department.
2. That the within Instrument was executed by the Honourable Roland C. Boudreau, Minister of Natural Resources, for the said Province, duly authorized thereto, in my presence, and the signature "Roland C. Boudreau" is the signature of the said Roland C. Boudreau, Minister of Natural Resources.
3. That the Seal opposite the signature of the said Roland C. Boudreau, is the Seal of the Department of Natural Resources and was affixed to the said Instrument by me, the said R. E. Hanusiak, as such officer being duly authorized thereto.

It hereby that the within is duly entered and registered in the Registry Office, at the City of New Brunswick at 12.50 o'clock P.M. of the 13th day of May 1977 in Book Number 268880 Page Number 816
 A. D. 1977
 898-850
 Registrar of Deeds

SWORN to at the City of Fredericton)
 in the County of York and Province)
 of New Brunswick, this 29th)
 day of April A. D.,)
 1977, before me.)

T. E. De

R. E. Hanusiak
 DEPUTY MINISTER
 DEPARTMENT OF
 NATURAL RESOURCES

COMMISSIONER OF DEEDS
 BEING A SOLICITOR

13th day of May 1977
 in Book Number 221 Page Number 103703
Shawn P. Shak
 Registrar of Deeds

No. 78743-DEED-Crown(N. B.) Dept. of Natural Resources to The New Brunswick
Electric Power Commission.

THIS INDENTURE made this *28th* day of *April*

in the Year of Our Lord One Thousand Nine Hundred and Seventy-seven;

B E T W E E N: HER MAJESTY THE QUEEN in right of the Province of New Brunswick as represented by the Honourable Roland C. Boudreau, Minister of Natural Resources for the said Province, hereinafter called the Grantor, of the First Part;

A N D: THE NEW BRUNSWICK ELECTRIC POWER COMMISSION, a Crown Corporation by virtue of the Electric Power Act, Chapter E5, R.S.N.B., 1973, hereinafter called the Grantee, of the Second Part;

WHEREAS the Administration and Control of certain lands hereinafter described have by P. C. 1976-2868 dated November 18, 1976 been conveyed by His Excellency The Governor General in Council, on the recommendation of the Minister of Transport, pursuant to subsection 4(2) of the Public Land Grants Act, to Her Majesty in right of the Province of New Brunswick subject to the following conditions:

(i) that the land will be used solely for the purpose of establishing a Nuclear Generating Station and will not be developed otherwise and if the subject land should cease to be used for the stated purpose, the administration and control shall revert to Her Majesty in right of Canada; and

(ii) that the transfer is subject to the Department of Transport retaining the right of access over the said lands to the lighthouse station by way of the existing roadway or any alternative access road to be established;

AND WHEREAS by order of the Lieutenant-Governor in Council dated March 23rd 1977 and under authority of An Act Respecting the Executive Administration of the Laws of this Province, Chapter VII, 52 Victoria, 1889 the transfer of administration and control has been accepted and further that authorization has been given the grantor to transfer to the grantee the hereinafter described lands subject to the same conditions as set out above.

WITNESSETH that the said Grantor for and in consideration of the above and the sum of One Dollar (\$1.00) of lawful money of Canada, to the Grantor in hand well and truly paid at or before the sealing and

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...2...

delivery of these presents by the said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, released, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, release, convey and confirm unto the said Grantee, its Successors and Assigns.

"ALL right, title and interest of Her Majesty the Queen in right of Canada, in two (2) lots of land at Point Lepreau in the Counties of Charlotte and Saint John as shown on Plan of Survey No. S-177 as prepared by the Department of Public Works on May 18, 1973 and signed by D. E. Black, N.B.L.S. Lot No. 1 containing 2.81 acres more or less and Lot No. 2 containing 373.57 acres more or less, both lots being previously reserved for a lighthouse and other public uses.

EXCEPTING THEREOUT AND THEREFROM that certain lot of land as shown on Survey Plan No. 89-7 dated May 1974, accepted June 19, 1974, as prepared by E. R. Jamieson, N.B.L.S.

TOGETHER WITH the appurtenances thereunto belonging and all the estate, right, title and interest, of the Grantor of, in and to the same as was acquired by Her Majesty the Queen in right of the Province under P. C. 1976-2858, as hereinbefore recited; except and reserved nevertheless out of this present conveyance to the Grantor all Coals and also all Gold and Silver and other Mines and Minerals.

TO HAVE AND TO HOLD the aforesaid land and premises with the appurtenances (except before excepted) unto and to the use of the said Grantee, its Successors and Assigns, FOREVER.

IN WITNESS WHEREOF the said Honourable Roland C. Boudreau, as such Minister has hereunto set his hand and the seal of the Department has been affixed by the hand of R. E. Hanusiak, Deputy Minister of the said Department.

SIGNED, SEALED AND DELIVERED)
In the Presence Of:

R. E. Hanusiak

Roland C. Boudreau
MINISTER OF NATURAL RESOURCES
PROVINCE OF NEW BRUNSWICK

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PROVINCE OF NEW BRUNSWICK, S. S.

I. R. E. Hanusiak of the City of Fredericton in the Province of New Brunswick, Deputy Minister of the Department of Natural Resources make oath and say as follows:

1. That I am the Deputy Minister of Natural Resources of the Province of New Brunswick, and as such am the proper officer having charge of the Seal of the said Department.
2. That the within Instrument was executed by the Honourable Roland C. Boudreau, Minister of Natural Resources, for the said Province, duly authorized thereto, in my presence, and the signature "Roland C. Boudreau" is the signature of the said Roland C. Boudreau, Minister of Natural Resources.
3. That the Seal opposite the signature of the said Roland C. Boudreau, is the Seal of the Department of Natural Resources and was affixed to the said Instrument by me, the said I. R. E. Hanusiak, as such officer being duly authorized thereto.

SWORN to at the City of Fredericton in the County of York and Province of New Brunswick, this 29th day of April, 1977, before me.

T. E. R. K.

I. R. E. Hanusiak
DEPUTY MINISTER
DEPARTMENT OF
NATURAL RESOURCES

COMMISSIONER OF MAPS certify that the within BEING A SOURCE of the within in the Registry Office for the County of Charlotte, New Brunswick at 10:15 A.M. of the 13th day of May, A. D. 1977 as Number 7874 in Book Number 221 Page Number 105-105
Shawn P. Chaloff Register of Deeds

FORM 401-6
1506-7-7/77

964

This Indenture MADE this 27th 1986 19th day of August

in the year of our Lord one thousand nine hundred and seventy-seven

BETWEEN :

GORDON HANSON, of the Parish of
Musquash, in the County of Saint John
and Province of New Brunswick, and
ADELIA HANSON, his wife, of the same
placo aforesaid, hereinafter called
the "Grantors", of the first part;

AND:

THE NEW BRUNSWICK ELECTRIC POWER
COMMISSION, a Crown Corporation, by
virtue of the Electric Power Act,
Chapter E-5 of the Revised Statutes of
N.B. 1973, hereinafter called the
"Grantee", of the second part;

WITNESSETH, That the said Grantors

for and in consideration of the sum of One Dollar (\$1.00)

lawful money of Canada to them in hand well and truly paid, at or before
the executing and delivery of these presents, by the said Grantee, the receipt whereof is
hereby acknowledged have granted, bargained, sold, aliened, released, conveyed and con-
firmed: and by these Presents do grant, bargain, sell, alien, release, convey and con-
firm unto the said Grantee, its Successors ~~Heirs~~ and Assigns,

All that certain lot, piece or parcel of land situate lying and being in
the Parish of Musquash, in the County of Saint John and Province of
New Brunswick, and shown as Lot "1" containing 13,760 square feet on
a Subdivision Plan, Gordon Hanson Subdivision, Parish of Musquash, County
of Saint John, Province of New Brunswick, said Subdivision Plan bearing
date July 5, 1977 and duly filed in the Saint John County Registry Office
on August 19, 1977 as number 583.

together with all Houses, Out-Houses, Barns, Buildings, Edifices, Fences, Improvements, Profits, Privileges, and Appurtenances to the same belonging or in any manner appertaining; and the Reversion and Reversions, Remainder and Remainders, Rents, Issues and Profits thereof; and also the Estate, Right Title, DOWER, Right and Title to Dower.

Interest, Use, Possession, Property, Claim and Demand, either at Law or in Equity, of the said Grantor of, in, to, or out of the same, and every part and parcel thereof, with the Appurtenances.

TO HAVE AND TO HOLD the said Lot, Piece or Parcel of Land and Premises hereby granted, bargained and sold, or meant mentioned or intended so to be, and every part and parcel thereof, with the Appurtenances unto the said Grantee, its SUCCESSORS, HEIRS and Assigns, to the only proper use, benefit and behoof of the said Grantee, ~~HEIRS and Assigns~~ its Successors and Assigns FOREVER.

IN WITNESS WHEREOF, the said Grantor s have hereunto set their Hand s and Seal s the day and year first above written.

Signed, sealed and delivered }
in the presence of }

Gordon Hanson
Adelina Hanson

[Signature]

966

AFFIDAVIT OF EXECUTION BY WITNESS

Province of New Brunswick

County of York

I, John H. Petterson of the City of Fredericton, in the Province of New Brunswick, make oath and say:

1. I was personally present and did see the within Deed duly signed and executed by Gordon & Adelia Hansm two of the parties thereto,
2. The said instrument was executed at the Parish of Musquash in the County of St. John and Province of New Brunswick.
3. I know the said parties, and am satisfied that they are of the full age of twenty-one years.
4. I am a subscribing witness to the said instrument.

SWORN TO before me at the
 City of Saint John
 in the County of St. John
 and Province of New Brunswick,
 this 19th day of August
 A.D., 1977

G.D. MORPHY

A Commissioner for Oaths,
BEING A SOLICITOR

I CERTIFY that the within Deed
 is duly entered and registered in the Registry Office for the County of Saint
 John, New Brunswick at 2:50 o'clock P.M. of the 19th
 day of August A.D. 1977 as Number 270896
 in Book Number 825 Page Number 964-966
 G.D. McArthur
 Registrar of Deeds

286396

PROVINCE OF NEW BRUNSWICK
COUNTY OF SAINT JOHN

I, *John A. Redstone*, Registrar of Deeds in
and for the County of Saint John in the Province of New
Brunswick do hereby certify that the foregoing Instrument
marked "A" and initialed by me is a true copy of a
DEED

from *Joseph Revill* of
to *Elizabeth Grace Taylor*
as registered in the Office of me, the said Registrar, in
Libro 113 of Records folios 3^a to 4^o on the 19th
day of March A.D. 1912 by the Number 28006 .

IN TESTIMONY WHEREOF I, the said
Registrar have hereunto set my hand
and Seal of Office this 9th day
of August A. D. 1979 .

John A. Redstone

REGISTRAR OF DEEDS
COUNTY OF SAINT JOHN.

115

A. Ervine

116

DEED NO. 26006.

JOSEPH ERVINE ET UX TO EVELYN GRACE TAYLOR.

THIS INDENTURE made this twelfth day of April in year of our Lord one thousand nine hundred BETWEEN JOSEPH EDWINE of the City of Saint John in the City and County of Saint John and Province of New Brunswick late of the Parish of Musquash in the said County Farmer and FAITHFUL, his wife; of the one part; and EVELYN GRACE TAYLOR, of the Parish of Lepreau in the County of Charlotte and Province aforesaid wife of Adam Taylor of the other part.

WITNESSETH that the said Joseph Ervine and Faithful his wife for and in consideration of the sum of FOUR HUNDRED DOLLARS (\$400) of Lawful money of Canada to them in hand well and truly paid at or before the sealing and delivery of these Presents by the said Evelyn Grace Taylor the receipt whereof is hereby acknowledged have granted bargained sold-allotted released-conveyed and confirmed and by these Presents do grant bargain sell alien release convey and confirm unto the said Evelyn Grace Taylor her heirs and assigns.

ALL that lot of land and premises being situate in part in the County of Charlotte and in the City and County of Saint John being described in a certain Grant from the Crown to the said Joseph Ervine dated the first day of May A.D. 1865 as a tract of land situate in the Parish of Lancaster in the City and County of Saint John in our Province of New Brunswick and bounded as follows, to-wit:- BEGINNING at a post placed at the northern angle of lot number twenty-one purchased by William K. Reynolds on the southeastern side of the said Saint Andrews Road east of the Approux River thence running by the meridian in the year one thousand eight hundred and fifty-five thence south eighty-seven degrees east forty chains and sixty-four links thence south twenty-five degrees east forty chains and sixty-four links thence south eighty-seven degrees east ten chains thence north three degrees East fifty-six chains or to a stake placed on the southeastern side of the above mentioned Road and thence along the side of that Road in a southwesterly direction to the place of beginning containing one hundred acres more or less distinguished as Lot Number twenty on the southeastern side of the above mentioned Road.

TOGETHER with all houses outhouses outhouses buildings edifices fences improvements profits privileges and

APPROVED
TESTED
W. L. Ervine
Notary Public
St. John, N.B.
April 12/1900

9. 10/1/18

(2)

appurtenances to the same belonging or in any manner appertain-
ing and the reversion and reversions remainder and remainders
rents issues and profits thereof and also also all the estate right
title right and title homestead dower right and title to dower
interest use possession property claim and demand either at
LAW or in Equity of them the said Joseph Ervine and Faithful his
wife of in to or out of the same and every part and parcel
thereof with the appurtenances.

TO HAVE AND TO HOLD the said lot piece or parcel of land
and premises hereby granted bargained and sold or meant
mentioned or intended so to be and every part and parcel thereof
with the appurtenances unto the said Eveleen Grace Taylor her
heirs and assigns to the only proper use benefit and behoof of
the said Eveleen Grace Taylor her heirs and assigns forever.

IN WITNESS WHEREOF the said Joseph Ervine and Faithful his
wife have hereunto set their hands and seals the day and year
first above written.-

Signed Sealed and Delivered in Presence of:

SGT. JNO. L. CABLETON.-

	His	
SGT.	JOSEPH Y ERVINE	L. S.
	Mark	
SGT.	Faithful ERVINE	L. S.

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(3)

DOMINION OF CANADA NEW BRUNSWICK S. S.

I, JOHN L. CARLETON, a Notary Public by Royal Authority duly admitted and sworn residing and practising in the City of Saint John in the County of Saint John and Province aforesaid Do Hereby Certify that on this fourteenth day of April A.D. 1900 personally came and appeared before me the said Notary the within named JOSEPH ERVINE and FAITHFUL his wife who severally acknowledged the within Instrument to be their act and deed and executed by them for the uses and purposes therein contained. And the said FAITHFUL ERVINE, wife of the said Joseph Ervine being by me examined separate and apart from the said Joseph Ervine her husband, acknowledged that she signed the within Deed voluntarily as and for her act and deed and without any fear threat or compulsion of or from her said husband.

IN TESTIMONY WHEREOF I the said Notary have hereunto set my hand and Official Seal at Saint John this fourteenth day of April A.D. 1900.-

I. S.

SGD. JNO. L. Carleton,
Notary Public
New Brunswick

Registered March 1900, A.D. 1912
Hour 10:20 A.M.

SIGNED: J.V. McEllen
Regr.

Certified Copy of Deed (Re-Registered)
12:30 o'clock P.M. 19th
10th October A.D. 1974 as Number 286396
in Book Number 343 Page Number 115-117
Lora M. Redstone
Registrar of Deeds

308

276257

This Indenture MADE this 8th day of May

in the year of our Lord one thousand nine hundred and seventy-eight

BETWEEN : MRS. DOROTHY CLARK, of the City of Ottawa, ROBERT PAGE SNIDER, of the City of Trenton and EDNA SNIDER, his wife, of the same place aforesaid, hereinafter called the "GRANTORS" of the First Part;

AND: THE NEW BRUNSWICK ELECTRIC POWER COMMISSION, a Crown Corporation, by virtue of the Electric Power Act, Chapter E-5 of the Revised Statutes of New Brunswick, 1973, hereinafter called the "GRANTEE" of the Second Part;

WITNESSETH That the said Grantors, for and in consideration of the sum of One Dollar (\$1.00) lawful money of Canada to them in hand well and truly paid, at or before the executing and delivery of these presents, by the said Grantee, the receipt whereof is hereby acknowledged have granted, bargained, sold, aliened, released, conveyed and confirmed and by these Presents do grant, bargain, sell, alien, release, convey and confirm unto the said Grantee, its Successors Heirs and Assigns

All that certain lot, piece or parcel of land situate lying and being in the Parish of Musquash, in the County of Saint John, and Province of New Brunswick, and BEING all that portion south of N. B. Highway Route Number 790 of the lands conveyed to Henrietta Irene Snider by the Heirs of Wilson Snider by deed dated November 26, 1943 and Registered in the Saint John County Registry Office on October 9, 1946 as number 138399 in Book 259 at Page 673, and to Henrietta Irene Somerville (formerly Snider) by Robert Page Snider and Edna Snider by deed dated July 17, 1950 and Registered July 17, 1950 as Number 149007 in Book 288 at Pages 339-340.

APPROVED FOR REGISTRATION R. W. [Signature] For - Development Officer Province of New Brunswick May 15, 1978 Date

together with all Houses, Out-Houses, Barns, Buildings, Edifices, Fences, Improvements, Profits, Privileges, and Appurtenances to the same belonging or in any manner appertaining; and the Reversion and Reversions, Remainder and Remainders, Rents, Issue and Profits thereof, and also the Estate, Right, Title, Dower, Right and Title to Dower

Interest, Use, Possession, Property, Claim and Demand, either at Law or in Equity, of the said Grantor of, in, to, or out of the same, and every part and parcel thereof, with the Appurtenances.

TO HAVE AND TO HOLD the said Lot, Piece or Parcel of Land and Premises hereby granted, bargained and sold, or meant, mentioned or intended so to be, and every part and parcel thereof, with the Appurtenances unto the said Grantee, its Successors Heirs and Assigns, to the only proper use, benefit and behoof of the said Grantee, ~~its Successors and Assigns~~ its Successors and Assigns FOREVER.

IN WITNESS WHEREOF, the said Grantors ha ve hereunto set their Hands and Seals the day and year first above written.

Signed, sealed and delivered |
in the presence of |

[Handwritten signature]

[Handwritten signatures]



310

PROVINCE OF ONTARIO

I, **JOHN K. REBE**, a Notary Public, in and for the Province of Ontario, duly appointed, commissioned and sworn, residing and practising therein at the *City* of *Ottawa* in *Regional Municipality of Ottawa-Cit6*, in the said Province, DO HEREBY CERTIFY, that on this *8th* day of *May* 1978, personally came and appeared before me, the said Notary Public, *Dorothy Clark, Page Snider and Emma Snider* the Grantor(s) named in the foregoing Indenture of Deed, and acknowledged that they signed, sealed, executed and delivered the same as and for their own act and deed, to and for the uses and purposes therein expressed and contained.

IN TESTIMONY WHEREOF I, the said Notary Public, have hereunto set my hand and affixed my Official Notarial Seal at the *City of Ottawa*, in the *Province of Ontario* aforesaid, the day and year last above written.

[Signature]
 NOTARY PUBLIC
 ONTARIO

I CERTIFY that the within *Deed* as duly entered and registered in the Registry Office for the County of *Manit* John, New Brunswick at *10:45* o'clock *A.* M. of the *17th* day of *May* A. D. 1978 as Number *276257* Book Number *848* Page Number *307-310*
[Signature] Registrar of Deeds



251919

63/1

This Indenture MADE this 20th day of November

in the year of our Lord one thousand nine hundred and seventy-four
BETWEEN: IRIS CLARK, Widow, of the City of Saint John,
in the County of St. John and Province of
New Brunswick, hereinafter called the "Grantor",
of the first part;

AND: THE NEW BRUNSWICK ELECTRIC POWER COMMISSION, a
Crown Corporation by virtue of the Electric Power
Act, Chapter R-5 of the Revised Statutes of
New Brunswick, 1973, hereinafter called the "Grantee",
of the second part;

EXEMPTED
[Signature]
For Development Officer
Province of New Brunswick
[Signature]
Date

WITNESSETH That the said Grantor
for and in consideration of the sum of One Dollar (\$1.00)
lawful money of Canada to her in hand well and truly paid, at or before
the executing and delivery of these presents by the said Grantee the receipt whereof is
honestly acknowledged has granted, bargained, sold, aliened, released, conveyed and con-
firmed: and by these Presents do as grant, bargain, sell, alien, release, convey and con-
firm unto the said Grantee its Successors ~~heirs and assigns~~
All that certain lot, piece or parcel of land and premises situate, lying and
being in the Parish of Mesquash, in the County of St. John and Province of
New Brunswick and in the Parish of Lepreau, in the County of Charlotte and
Province of New Brunswick being Lot number 3 granted by the Crown to John
Greenwood and bounded as follows:
On the southwest by lands Reserved by the Crown for Lighthouse and other
Public uses; on the northwest by the southeasterly side line of lot number 4
granted by the Crown to Manse and A. Gould; on the northeast by lands granted
to J. Thompson; and on the southeast by the northwesterly side line of lot
number 2 granted to Thomas Loveday, and containing one hundred ninety (190)
acres, more or less.
Excepting and Reserving thereout and therefrom that portion of the aforesaid
lot number 3 bounded as follows: On the southwest by the Macas Bay to
Dipper Harbour Cross Road; on the northwest by the southeasterly side line of

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lot number 4 granted to Manse and A. Gould; on the northeast by lands granted to J. Thompson and on the southeast by the prolongation southwesterly to the aforesaid road of the southeasterly side line of the northwesterly one-half of lot number 10 granted to James T. Clark and containing nineteen (19) acres, more or less.

The lands hereby conveyed being a portion of those lands devised to the Grantor herein by the last will and testament of Harry A. Clark dated the 13th day of June, 1942 and filed in the Saint John County Probate Records in File 43, and that portion of the aforesaid grant number 3 which lies within the bounds of Charlotte County to which the Grantor herein claims fee simple title by possession or otherwise.

EXEMPTED
[Signature]
For - Development Officer
Province of New Brunswick
[Signature] 4/19/77
Date

633

together with all Houses, Out-Houses, Barns, Buildings, Edifices, Fences, Improvements, Profits, Privileges, and Appurtenances to the same belonging or in any manner appertaining; and the Reversion and Reversions, Remainder and Remainders, Rents, Issue and Profits thereof; and also the Estate, Right, Title

Interest, Use, Possession, Property, Claim and Demand, either at Law or in Equity, of the said Grantor at, in, to, or out of the same, and every part and parcel thereof, with the Appurtenances.

TO HAVE AND TO HOLD the said Lot, Piece or Parcel of Land and Premises hereby granted, bargained and sold, or meant, mentioned or intended so to be, and every part and parcel thereof with the Appurtenances unto the said Grantee, its Successors, Heirs and Assigns, to the only proper use, benefit and behoof of the said Grantee, His Successors and Assigns FOREVER.

IN WITNESS WHEREOF, the said Grantor, her/his hereunto set Hand and Seal the day and year first above written.

Signed, sealed and delivered in the presence of

[Handwritten signature]

[Handwritten signature]

634

Form #579

AFFIDAVIT OF EXECUTION BY WITNESS

Province of New Brunswick
County of York

I, John H. Patterson of the City of Fredericton
County of York, in the Province of New Brunswick, make oath

and say:

1. I was personally present and did see the within deed duly signed and executed by Mrs. Irene Clark one of the parties thereto.
2. The said instrument was executed at the City of Saint John in the County of Saint John and Province of New Brunswick.
3. I know the said parties, and am satisfied that they are of the full age of twenty-one years.
4. I am a subscribing witness to the said instrument.

Read
I CERTIFY that the within is duly entered and registered in the Registry Office for the County of Saint John, New Brunswick at 2-20 o'clock P.M. of the 4th day of December A. D. 1974 as Number 251919 in Book Number 741 Page Number 631-632
Richard J. Hamilton
Registrar of Deeds

SWORN TO before me at the
City of Saint John
in the County of Saint John
and Province of New Brunswick,
this 20th day of November
A. D., 1974.

[Signature]
A Commissioner for Oaths,
being a solicitor.

I CERTIFY that the within *Read*
is duly entered and registered in the Registry Office for the County of Charlotte, New Brunswick at 3:50 o'clock P.M. of the 29th day of November A. D. 1974 as Number 73429 in Book Number 202 Page Number 879-882
Dalton E. Johnson Registrar of Deeds

Appendix D: Public and Stakeholder Engagement Activities

Communication Date	Stakeholder	Activity / Event Type
Aug 28, 2018	Lancaster Golden Seniors Club	In-person / face-to-face
Jan 13, 2019	Opportunities NB	In-person / face-to-face
Jan 17, 2019	PLNGS Community Liaison Committee	In-person / face-to-face
Jan 19, 2019	Association of Professional Engineers and Geoscientists of New Brunswick	In-person / face-to-face
Feb 15, 2019	Women in Nuclear (WIN)	In-person / face-to-face
Feb 19, 2019	Atlantic Canada Opportunities Agency (ACOA)	In-person / face-to-face
Mar 12, 2019	Coleson Cove Community Liaison Committee	In-person / face-to-face
Mar 19, 2019	Atlantic Coastal Action Program (ACAP), and their contact from ACAP	In-person / face-to-face
Mar 28, 2019	Fundy Engineering	In-person / face-to-face
Apr 13, 2019	Atlantica Centre for Energy	In-person / face-to-face
Apr 13, 2019	University of New Brunswick (UNBSJ)	In-person / face-to-face
May 07, 2019	Atlantica Centre for Energy	In-person / face-to-face
May 09, 2019	Opportunities NB	In-person / face-to-face
May 13, 2019	Government of New Brunswick, Climate Change Secretariat	In-person / face-to-face
May 15, 2019	PLNGS Community Group Liaison	In-person / face-to-face
Jun 06, 2019	PEI Department of Environment and Energy Maritime Electric	In-person / face-to-face
Jun 18, 2019	New Brunswick Department of Energy and Resource Development and Environment and Local Government	In-person / face-to-face
Jun 19, 2019	Atlantic Canada Opportunities Agency (ACOA)	In-person / face-to-face
Jun 20, 2019	Atlantica Centre for Energy	In-person / face-to-face
Jun 24, 2019	Canadian Nuclear Safety Commission (CNSC)	In-person / face-to-face
Jul 08, 2019	Organization of Canadian Nuclear Industries (OCNI)	In-person / face-to-face
Jul 18, 2019	PLNG Community Liaison Committee	In-person / face-to-face
Jul 26, 2019	Representatives from the Town of Rothesay, Town of Quispamsis, City of Saint John	In-person / face-to-face
Sep 18, 2019	Lancaster Golden Seniors Club	In-person / face-to-face
Sep 26, 2019	Atlantic Canada Opportunities Agency (ACOA)	In-person / face-to-face
Sep 28, 2019	Women in Nuclear (WIN)	In-person / face-to-face
Oct 17, 2019	PLNGS Community Liaison Committee	In-person / face-to-face
Oct 21, 2019	Atlantica Centre for Energy	In-person / face-to-face
Nov 23, 2019	Atlantica Centre for Energy Energy Fundamentals for Leaders	In-person / face-to-face
Nov 26, 2019	Ontario Power Generation (OPG) United States Nuclear Industry Council (USNIC)	In-person / face-to-face
Dec 18, 2019	Harbour View High School	In-person / face-to-face
Jan 01, 2020	Canadian Manufacturers and Exporters (CME)	Web Conference
Jan 28, 2020	Organization of Canadian Nuclear Industries (OCNI)	In-person / face-to-face
Feb 26, 2020	Canadian Nuclear Association (CNA)	In-person / face-to-face
May 06, 2020	Organization of Canadian Nuclear Industries (OCNI)	In-person / face-to-face
May 21, 2020	National Association of Insurance Commissioners (NAIC)	In-person / face-to-face
Jun 16, 2020	Saint John Region Chamber of Commerce, Atlantica Centre for Energy	In-person / face-to-face
Jun 25, 2020	United Nations Association in Canada (UNA), Atlantica Centre for Energy	Email
Jul 16, 2020	Citizen	Web Conference
Jul 27, 2020	Organization of Canadian Nuclear Industries (OCNI)	In-person / face-to-face
Aug 27, 2020	Organization for Economic Co-operation and Development (OECD) Natural Resources Canada (NRCAN)	In-person / face-to-face
Sep 09, 2020	International Brotherhood of Electrical Workers (IBEW) Natural Resources Canada (NRCAN)	In-person / face-to-face
Sep 18, 2020	New Brunswick Department of Aboriginal Affairs, Natural Resources Canada (NRCAN)	In-person / face-to-face
Sep 18, 2020	Canadian Nuclear Safety Commission (CNSC)	In-person / face-to-face
Sep 21, 2020	Atlantic Canada Opportunities Agency (ACOA)	In-person / face-to-face
Sep 22, 2020	Conseil économique du Nouveau-Brunswick	In-person / face-to-face
Sep 24, 2020	Gaia Project Natural Resources Canada (NRCAN)	In-person / face-to-face
Sep 30, 2020	Energy Storage Canada and Moltex	In-person / face-to-face
Oct 01, 2020	PLNGS Community Liaison Committee	In-person / face-to-face

Communication Date	Stakeholder	Activity / Event Type
Oct 05, 2020	Atlantic Canada Opportunities Agency (ACOA)	In-person / face-to-face
Oct 06, 2020	Government of PEI, Natural Resources Canada (NRCAN)	In-person / face-to-face
Oct 09, 2020	Citizen	In-person / face-to-face
Oct 13, 2020	Lancaster Golden Seniors Club	In-person / face-to-face
Oct 30, 2020	Organization of Canadian Nuclear Industries (OCNI), Interested suppliers	Online Event
Nov 05, 2020	Students in New Brunswick	Online Event
Nov 18, 2020	Canadian Nuclear Society (CNS)	In-person / face-to-face
Nov 20, 2020	University of New Brunswick (UNB)	Video Conference
Nov 21, 2020	Canada UK Colloquium (CUKC)	Video Conference
Nov 24, 2020	Canadian Manufacturers and Exporters (CME), Interested suppliers	Online Event
Dec 16, 2020	Conservation Council of New Brunswick	Video Conference
Jan 28, 2021	Organization of Canadian Nuclear Industries (OCNI), Interested suppliers	Online Event
Feb 17, 2021	General public	Online Event
Mar 26, 2021	Belledune / Dalhousie Community Liaison Committee (CLC)	Email
Apr 16, 2021	Conseil économique du Nouveau-Brunswick	Video Conference
Apr 29, 2021	Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS)	Video Conference
Apr 30, 2021	New Brunswick Community College (NBCC) - Moncton	In-person / face-to-face
May 10, 2021	Organization of Canadian Nuclear Industries (OCNI), Interested suppliers	Online Event
May 10, 2021	PLNGS Community Liaison Committee	Meeting
May 31, 2021	New Brunswick Community College (NBCC) - SJ	Video Conference
Jun 01, 2021	Atlantica Centre for Energy	Video Conference
Jun 01, 2021	New Brunswick Community College (NBCC) - SJ	Web Conference
Jun 24, 2021	Engineers Geoscientists Manitoba, Canadian Society of Senior Engineers (CSSE)	Video Conference
Jul 14, 2021	Members of Parliament for Tobique-Mactaquac, New Brunswick Southwest	Tour
Jul 29, 2021	Atlantica Centre for Energy	Video Conference
Jul 29, 2021	PLNGS Community Liaison Committee	Meeting
Aug 04, 2021	Mayor of St. George	In-person / face-to-face
Aug 23, 2021	General public	Open house/town hall/public meeting
Aug 25, 2021	General public	Open house/town hall/public meeting
Aug 26, 2021	General public	Open house/town hall/public meeting
Sep 02, 2021	Citizens and the Mayor of St. George	In-person / face-to-face
Sep 14, 2021	Belledune / Dalhousie Community Liaison Committee (CLC)	Video Conference
Sep 15, 2021	Canadian Nuclear Association (CNA), Industry participants	Conference / seminar
Sep 16, 2021	General public	Open house/town hall/public meeting
Sep 23, 2021	Lower Saint John River Hydro Community Liaison Committee (CLC) (Mactaquac)	Video Conference
Sep 24, 2021	Department of Education	Tour
Sep 28, 2021	Milltown Generating Station Community Liaison Committee (CLC)	Video Conference
Sep 29, 2021	Maritime Energy Association (MEA), Industry participants	Conference / seminar
Oct 01, 2021	University of Moncton (U de M)	Video Conference
Oct 06, 2021	Organization of Canadian Nuclear Industries (OCNI), Interested suppliers	Online Event
Oct 08, 2021	Saint John Naturalist Club	Field Visit
Oct 13, 2021	Climate Institute of Canada	In-person / face-to-face
Oct 15, 2021	Saskatchewan Power	Video Conference

Communication Date	Stakeholder	Activity / Event Type
Oct 17, 2021	Women in Nuclear (WIN)	Online Event
Oct 18, 2021	Saint Andrews, Town of, St. George, Town of, St. Stephen, Town of, Blacks Harbour, Village of	In-person / face-to-face
Oct 18, 2021	Students and teachers in New Brunswick, General public	Online Event
Oct 25, 2021	Moltex, ARC Clean Technology	In-person / face-to-face
Nov 05, 2021	Vancouver Island Engineering Society (VIES)	Online Event
Nov 12, 2021	Hampton High	Web Conference
Nov 15, 2021	Canadian Nuclear Society (CNS), Industry participants	Conference / seminar
Nov 16, 2021	Representatives (Saint John, City of), (Grand Bay-Westfield, Town of), (Quispamsis, Town of), (Rothesay, Town of)	Video Conference
Nov 18, 2021	Union of Municipalities New Brunswick (UMNB)	Online Event
Nov 24, 2021	Citizens and the Mayor of St. George	In-person / face-to-face
Nov 24, 2021	Fredericton Golden Club	In-person / face-to-face
Nov 30, 2021	Saskatchewan Power	Video Conference
Dec 02, 2021	Representatives (Saint John, City of), (Grand Bay-Westfield, Town of), (Quispamsis, Town of), (Rothesay, Town of)	Video Conference
Dec 03, 2021	Association francophone des municipalités du Nouveau-Brunswick (AFMNB)	Annual general meeting (AGM)
Dec 15, 2021	Saint John Region Chamber of Commerce	Video Conference
Jan 13, 2022	Government of Canada	Letter/mail
Jan 13, 2022	Association Of Consulting Engineering Companies - Saskatchewan (ACEC-SK)	Online Event
Jan 19, 2022	Saint John Naturalist Club	In-person / face-to-face
Jan 20, 2022	Opportunities NB	Web Conference
Jan 27, 2022	Natural Resources Canada (NRCAN)	Video Conference
Feb 03, 2022	New Brunswick Department of Energy and Resource Development	Video Conference
Feb 08, 2022	Citizen	Video Conference
Feb 11, 2022	Students and teachers in New Brunswick, General public	Online Event
Feb 11, 2022	Organization of Canadian Nuclear Industries (OCNI), Industry participants	Online Event
Feb 14, 2022	Atlantic Canada Opportunities Agency (ACOA), Indigenous Services Canada (ISC)	Video Conference
Feb 16, 2022	Association of Professional Engineers and Geoscientists New Brunswick (APEGNB)	Online Event
Feb 23, 2022	Saskatchewan Power	Video Conference
Feb 25, 2022	Science East, Atlantica Centre for Energy, The Gaia Project, The Centre of Excellence for Energy	Tour
Mar 01, 2022	General public	Open house/town hall/public meeting
Mar 03, 2022	General public	Open house/town hall/public meeting
Mar 04, 2022	New Brunswick Department of Energy and Resource Development	Video Conference
Mar 08, 2022	Reuters	Video Conference
Mar 15, 2022	Caledonia Regional High School	Tour
Mar 15, 2022	General public	Open house/town hall/public meeting
Mar 16, 2022	Society of Petroleum Engineers (SPE)	Conference / seminar
Mar 18, 2022	Harbour View High School	In-person / face-to-face
Mar 21, 2022	Students and teachers in New Brunswick, General public	Online Event
Mar 30, 2022	PLNGS Community Liaison Committee	Meeting
Mar 31, 2022	Natural Resources Canada (NRCAN)	Video Conference
Apr 12, 2022	Canadian Nuclear Association (CNA), Industry participants	Conference / seminar
Apr 20, 2022	NB Department of Natural Resources and Energy Development	Video Conference
May 11, 2022	Women in Energy	Community event / forum
May 18, 2022	Students across Canada	Online Event
May 18, 2022	Sustainable Saint John	Online Event

Communication Date	Stakeholder	Activity / Event Type
May 20, 2022	Opportunities NB	Video Conference
May 24, 2022	Reuters	Conference / seminar
May 27, 2022	Natural Resources Canada (NRCAN)	Video Conference
May 30, 2022	Natural Resources Canada (NRCAN)	Video Conference
Jun 01, 2022	Hatch	Video Conference
Jun 05, 2022	Canadian Nuclear Society (CNS), Industry participants	Online Event
Jun 10, 2022	NB Power 25 Year Club	Company-sponsored event
Jun 14, 2022	Opportunities NB, Canadian Manufacturers and Exporters, Interested suppliers	Industry event
Jun 21, 2022	Citizen	In-person / face-to-face
Jun 30, 2022	Natural Resources Canada (NRCAN)	Video Conference
Jul 13, 2022	Organization of Canadian Nuclear Industries (OCNI)	Video Conference
Jul 15, 2022	New Brunswick Department of Aboriginal Affairs	Video Conference
Jul 20, 2022	Department of Education	Video Conference
Aug 04, 2022	General public	Community event / forum
Aug 08, 2022	CleanTech Catalyst	Online Event
Aug 09, 2022	Boilermaker Industry	Conference / seminar
Aug 10, 2022	Department of Education	Tour
Aug 17, 2022	Atlantic Canada Opportunities Agency (ACOA)	Video Conference
Aug 18, 2022	PLNGS Community Liaison Committee	Meeting
Aug 18, 2022	NB Power Students	Online Event
Aug 21, 2022	Canadian Nuclear Society (CNS), Industry participants	Conference / seminar
Aug 24, 2022	Natural Resources Canada (NRCAN)	Tour
Aug 25, 2022	General Public, Huddle	Radio
Aug 29, 2022	Organization of Canadian Nuclear Industries (OCNI)	Video Conference
Sep 06, 2022	Government of New Brunswick, Government of Saskatchewan, and SaskPower	Tour
Sep 09, 2022	Natural Resources Canada (NRCAN)	Tour
Sep 13, 2022	Nuclear Energy Institute, Industry participants	Conference / seminar
Sep 19, 2022	Students and teachers in New Brunswick, General public	Online Event
Sep 20, 2022	IBEW Canada	Tour
Sep 20, 2022	Industry participants	Conference / seminar
Sep 22, 2022	Saint John Naturalist Club	Tour
Sep 25, 2022	Women in Nuclear (WIN)	Conference / seminar
Sep 28, 2022	Maritime Energy Association (MEA), Industry participants	Conference / seminar
Oct 03, 2022	Canadian Nuclear Society (CNS), Industry participants	Conference / seminar
Oct 04, 2022	Organization of Canadian Nuclear Industries (OCNI)	Video Conference
Oct 05, 2022	Atlantic Canada Opportunities Agency (ACOA)	Video Conference
Oct 07, 2022	Saint John Naturalist Club	Tour
Oct 09, 2022	World Association of Nuclear Operators (WANO)	Conference / seminar
Oct 13, 2022	Saint John Naturalist Club	Tour
Oct 17, 2022	Students and teachers in New Brunswick, General public	Presentation
Oct 20, 2022	Fundy Middle and High School	Tradeshaw
Oct 20, 2022	Cumulative Effects Assessment and Environmental Management Atlantic	Conference / seminar
Oct 24, 2022	General public	Open house/town hall/public meeting
Oct 25, 2022	General public	Open house/town hall/public meeting
Oct 25, 2022	General public	Training/workshops
Oct 26, 2022	General public	Open house/town hall/public meeting

Communication Date	Stakeholder	Activity / Event Type
Oct 27, 2022	Women in Energy	Community event / forum
Nov 01, 2022	Fundy Shores School	In-person / face-to-face
Nov 02, 2022	Students in New Brunswick	Site visit
Nov 09, 2022	Floor, Industry participants	Online Event
Nov 14, 2022	Atlantica Centre for Energy	Video Conference
Nov 21, 2022	Citizens	In-person / face-to-face
Nov 28, 2022	Harbour View High School	Site visit
Nov 29, 2022	Fundy Shores School	Training/workshops
Nov 29, 2022	PLNGS Community Liaison Committee	Meeting
Dec 01, 2022	Saint John High School	In-person / face-to-face
Dec 05, 2022	Building Trades of Alberta	In-person / face-to-face
Dec 09, 2022	Department of Education	Tour
Dec 14, 2022	University Network of Excellence in Nuclear Engineering (UNENE)	Training/workshops
Jan 15, 2023	NRCAN, Energy Central	Radio
Jan 16, 2023	Canadian Nuclear Safety Commission (CNSC)	Video Conference
Jan 26, 2023	Reuters	Online Event
Jan 31, 2023	Milltown Community Liaison Committee	Meeting
Feb 02, 2023	Canadian Nuclear Safety Commission (CNSC), Science East, Centre of Excellence for Energy (COEE)	Video Conference
Feb 06, 2023	Grand Manan, Village of, Saint John, City of, Grand Bay-Westfield, Town of, Hampton, Town of, Quispamsis, Town of, Rothesay, Town of, Saint Andrews, Town of, St. Stephen, Town of, McAdam, Village of, St. Martins, Village of, Campobello Island, Rural Community, Eastern Charlotte, Municipality of, Fundy Shores, Municipality of	Phone call
Feb 07, 2023	Canadian Nuclear Safety Commission (CNSC), Canadian Nuclear Association (CNA), Organization for Economic Co-operation and Development (OECD), Nuclear Energy Agency (NEA)	Video Conference
Feb 09, 2023	Fundy Shores, Municipality of	In-person / face-to-face
Feb 14, 2023	Standing Committee on Climate Change and Environmental Stewardship	Open house/town hall/public meeting
Feb 17, 2023	Association of Professional Engineers and Geoscientists New Brunswick (APEGNB)	Annual general meeting (AGM)
Feb 22, 2023	Canadian Nuclear Association (CNA), Industry participants	Conference / seminar
Feb 28, 2023	Eastern Charlotte, Municipality of	In-person / face-to-face
Feb 28, 2023	St. Martins, Village of	In-person / face-to-face
Mar 06, 2023	Saint Andrews, Town of	In-person / face-to-face
Mar 06, 2023	Eastern Charlotte Waterways, Fundy North Fisherman's Association	Video Conference
Mar 15, 2023	General public	Community event / forum
Mar 17, 2023	Students and teachers in New Brunswick, General public	Online Event
Mar 23, 2023	General public	Online Event
Mar 23, 2023	Canadian Manufacturers and Exporters (CME), Industry participants	Conference / seminar
Mar 23, 2023	PLNGS Community Liaison Committee	Meeting
Mar 24, 2023	Organization of Canadian Nuclear Industries (OCNI), Interested suppliers	Conference / seminar
Mar 27, 2023	Town of Grand Bay-Westfield	In-person / face-to-face
Mar 27, 2023	Municipality of Campobello Island	In-person / face-to-face
Apr 04, 2023	Town of Quispamsis	In-person / face-to-face
Apr 11, 2023	Town of Hampton	In-person / face-to-face
Apr 11, 2023	Canadian Nuclear Association (CNA), Industry participants	Conference / seminar
Apr 12, 2023	Conference Board of Canada	Online Event
Apr 12, 2023	St. Malachy's Memorial High School	In-person / face-to-face
Apr 12, 2023	Electric Power Research Institute (EPRI), Industry participants	Conference / seminar
Apr 17, 2023	City of Saint John	In-person / face-to-face
Apr 17, 2023	Industry participants	Conference / seminar

Communication Date	Stakeholder	Activity / Event Type
Apr 19, 2023	Organization of Canadian Nuclear Industries (OCNI), Industry participants	Online Event
Apr 19, 2023	Simonds High School	In-person / face-to-face
Apr 20, 2023	Fundy Shores School	In-person / face-to-face
Apr 27, 2023	Saskatchewan Power, General public	Online Event
May 04, 2023	Reuters	Conference / seminar
May 08, 2023	Canadian Building Trades Union (CBTU)	Conference / seminar
May 09, 2023	Natural Resources Canada (NRCAN)	In-person / face-to-face
May 10, 2023	Saskatchewan Power, General public	Online Event
May 17, 2023	Project Management Institute New Brunswick Chapter (PMI NB)	Online Event
May 24, 2023	General public	Open house/town hall/public meeting
May 25, 2023	General public	Open house/town hall/public meeting
May 30, 2023	General public	Open house/town hall/public meeting
May 30, 2023	Citizens	In-person / face-to-face
Jun 04, 2023	Canadian Nuclear Society (CNS), Industry participants	Conference / seminar
Jun 08, 2023	Canadian Fluid Power Association (CFPA)	Conference / seminar
Jun 09, 2023	NB Power 25 Year Club	Community event / forum
Jun 13, 2023	St. Thomas University	In-person / face-to-face
Jun 14, 2023	Nuclear Procurement Issues Corporation (NUPIC), Industry participants, Interested suppliers	Conference / seminar

Appendix E: Indigenous Engagement Activities

Communication date	First Nations Community / Indigenous Organization	Activity / Event Type
August, 2018	Mi'gmaq Chiefs and Councils	In-person / face-to-face
August, 2018	Wolastoqey Chiefs and Councils	In-person / face-to-face
August, 2018	Peskotomuhkati Chief	In-person / face-to-face
Jul 22, 2019	Assembly of First Nations	Conference / seminar
Sep 12, 2019	Union of New Brunswick Indians (UNBI)	In-person / face-to-face
Nov 14, 2019	Eel River Bar First Nation, Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Information session
Nov 15, 2019	Esgenoopetitj First Nation, Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Information session
Nov 18, 2019	Fort Folly First Nation, Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Information session
Nov 26, 2019	Eel Ground First Nation, Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Information session
Nov 26, 2019	Metepenagiag First Nation, Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Information session
Nov 27, 2019	Indian Island First Nation, Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Information session
Jul 14, 2020	Wolastoqey Nation in New Brunswick (WNNB)	In-person / face-to-face
Jul 17, 2020	Peskotomuhkati	In-person / face-to-face
Aug 20, 2020	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	In-person / face-to-face
Sep 10, 2020	Union of New Brunswick Indians (UNBI), Joint Economic Development Initiative (JEDI), North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Sep 14, 2020	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Sep 17, 2020	Wolastoqey Nation in New Brunswick (WNNB)	In-person / face-to-face
Oct 06, 2020	Wolastoqey Tribal Council Inc, Wolastoqey Nation in New Brunswick (WNNB)	In-person / face-to-face
Nov 16, 2020	First Nation Power Authority (FNPA)	Conference / seminar
Nov 16, 2020	First Nation Power Authority (FNPA)	Online Event
May 12, 2021	Wolastoqey Nation in New Brunswick (WNNB)	Presentation
May 15, 2021	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Presentation
May 19, 2021	Saint Mary's First Nation	In-person / face-to-face
Jun 16, 2021	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Jun 23, 2021	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	In-person / face-to-face
Jul 15, 2021	Wolastoqey Communities (several)	Information session
Aug 23, 2021	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Site visit
Oct 15, 2021	First Nation Power Authority (FNPA)	Video Conference
Oct 15, 2021	First Nation Power Authority (FNPA)	Video Conference
Oct 17, 2021	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Oct 22, 2021	Mawiw Council	In-person / face-to-face
Oct 29, 2021	First Nation Power Authority (FNPA)	Video Conference
Nov 12, 2021	Mawiw Council	In-person / face-to-face
Nov 12, 2021	Union of New Brunswick Indians (UNBI)	In-person / face-to-face
Nov 15, 2021	First Nation Power Authority (FNPA)	Video Conference
Nov 15, 2021	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Nov 17, 2021	Joint Economic Development Initiative (JEDI)	Conference / seminar
Nov 18, 2021	Joint Economic Development Initiative (JEDI)	Video Conference
Nov 22, 2021	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Nov 23, 2021	Elsipogtog First Nation & KOPIIT Lodge	Video Conference
Nov 24, 2021	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Dec 03, 2021	Elsipogtog First Nation & KOPIIT Lodge	In-person / face-to-face
Dec 06, 2021	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Dec 06, 2021	Wolastoqey Nation in New Brunswick (WNNB)	In-person / face-to-face
Dec 07, 2021	Elsipogtog First Nation & KOPIIT Lodge	In-person / face-to-face
Dec 08, 2021	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Dec 15, 2021	Elsipogtog First Nation & KOPIIT Lodge	Video Conference
Dec 15, 2021	Peskotomuhkati Nation	Video Conference
Dec 15, 2021	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference

Communication date	First Nations Community / Indigenous Organization	Activity / Event Type
Dec 16, 2021	Peskotomuhkati Nation	Video Conference
Dec 20, 2021	Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	In-person / face-to-face
Dec 30, 2021	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Dec 30, 2021	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Dec 30, 2021	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Jan 07, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Jan 12, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Jan 14, 2022	First Nation Power Authority (FNPA)	Video Conference
Jan 18, 2022	Creative Fire, Atunda	Video Conference
Jan 18, 2022	Creative Fire	Video Conference
Jan 26, 2022	Peskotomuhkati Nation	Video Conference
Jan 28, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Jan 28, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Jan 31, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Feb 01, 2022	Joint Economic Development Initiative (JEDI)	Video Conference
Feb 01, 2022	Mawiw Council	In-person / face-to-face
Feb 01, 2022	Peskotomuhkati Nation	In-person / face-to-face
Feb 07, 2022	Joint Economic Development Initiative (JEDI)	Video Conference
Feb 07, 2022	SOAR Professional Services	Video Conference
Feb 09, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Feb 11, 2022	Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	Video Conference
Feb 14, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Feb 15, 2022	North Shore Mi'gmaq District Council (NSMDC), Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	Video Conference
Feb 17, 2022	The First Nations Major Project Coalition (FNMPCC)	Video Conference
Mar 01, 2022	North Shore Mi'gmaq District Council (NSMDC), Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	In-person / face-to-face
Mar 02, 2022	Elsipogtog First Nation & KOPIT Lodge	In-person / face-to-face
Mar 03, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Mar 03, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Mar 11, 2022	Tobique First Nation	Video Conference
Mar 15, 2022	Peskotomuhkati Nation	In-person / face-to-face
Mar 23, 2022	Joint Economic Development Initiative (JEDI)	Online Event
Mar 24, 2022	Peskotomuhkati Nation	In-person / face-to-face
Mar 28, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Mar 29, 2022	Indigenous Clean Energy (ICE)	Online Event
Apr 01, 2022	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Apr 05, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Apr 05, 2022	Peskotomuhkati Nation	Field Visit
Apr 06, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Apr 11, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Apr 13, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Apr 21, 2022	PLATO Testing, North Shore Mi'gmaq District Council (NSMDC), SOAR Professional Services	Video Conference
Apr 22, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
May 02, 2022	Mawiw Council	Video Conference
May 04, 2022	North Shore Mi'gmaq District Council (NSMDC)	Community event / forum
May 12, 2022	PLATO Testing, North Shore Mi'gmaq District Council (NSMDC), SOAR Professional Services	Video Conference
May 13, 2022	Peskotomuhkati Nation	Video Conference
May 20, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
May 25, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
May 25, 2022	Peskotomuhkati Nation	Video Conference

Communication date	First Nations Community / Indigenous Organization	Activity / Event Type
May 26, 2022	Indigenous Works	Online Event
Jun 14, 2022	North Shore Mi'gmaq District Council (NSMDC), SOAR Professional Services, First Nations Power Authority (FNPA)	Industry event
Jun 28, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI), Wolastoqey Nation in New Brunswick (WNNB), Peskotomuhkati Nation	Video Conference
Jun 29, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Jun 30, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Jul 12, 2022	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Jul 12, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Jul 12, 2022	Mawiw Council	In-person / face-to-face
Jul 13, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Jul 19, 2022	North Shore Mi'gmaq District Council (NSMDC), Elephant Thoughts	Video Conference
Jul 19, 2022	North Shore Mi'gmaq District Council (NSMDC), SOAR Professional Services, Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	Video Conference
Jul 27, 2022	North Shore Mi'gmaq District Council (NSMDC), Elephant Thoughts	Training/workshops
Aug 04, 2022	Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	In-person / face-to-face
Aug 08, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Aug 18, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Aug 23, 2022	Peskotomuhkati (Passamaquoddy), Mi'gmawe'l Tplu'taqnn Incorporated (MTI), Wolastoqey Nation in New Brunswick (WNNB)	In-person / face-to-face
Aug 23, 2022	North Shore Mi'gmaq District Council (NSMDC)	Annual general meeting (AGM)
Aug 24, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Aug 24, 2022	Peskotomuhkati Nation	Video Conference
Aug 25, 2022	Joint Economic Development Initiative (JEDI)	Community event / forum
Sep 14, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Sep 27, 2022	Assembly of First Nations	Conference / seminar
Sep 28, 2022	Peskotomuhkati Nation	Video Conference
Sep 29, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Sep 29, 2022	Indigenous Works	Training/workshops
Oct 06, 2022	Peskotomuhkati Nation	In-person / face-to-face
Oct 07, 2022	Joint Economic Development Initiative (JEDI)	Video Conference
Oct 07, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Oct 12, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Oct 14, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Oct 18, 2022	North Shore Mi'gmaq District Council (NSMDC), SOAR Professional Services, Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	Video Conference
Oct 26, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Oct 28, 2022	North Shore Mi'gmaq District Council (NSMDC)	Tour
Nov 07, 2022	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Nov 09, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Nov 09, 2022	Peskotomuhkati Nation	Video Conference
Nov 09, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Nov 15, 2022	Elsipogtog First Nation & KOPIT Lodge	In-person / face-to-face
Nov 15, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	In-person / face-to-face
Nov 16, 2022	Elsipogtog First Nation & KOPIT Lodge	In-person / face-to-face
Nov 17, 2022	Joint Economic Development Initiative (JEDI)	Community event / forum
Nov 30, 2022	Peskotomuhkati Nation	Video Conference
Dec 01, 2022	Peskotomuhkati Nation	In-person / face-to-face
Dec 08, 2022	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Dec 14, 2022	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Dec 15, 2022	Elsipogtog First Nation & KOPIT Lodge	In-person / face-to-face

Communication date	First Nations Community / Indigenous Organization	Activity / Event Type
Jan 06, 2023	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Jan 25, 2023	Peskotomuhkati Nation	Video Conference
Jan 26, 2023	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Feb 03, 2023	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Feb 07, 2023	Pabineau First Nation	Video Conference
Feb 07, 2023	Elsipogtog First Nation & KOPIT Lodge, Mi'gmawe'l Tplu'taqnn Incorporated, Wolastoqey Nation in New Brunswick (WNNB), North Shore Mi'gmaq District Council (NSMDC), Peskotomuhkati	Multiple/various methods
Feb 10, 2023	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Feb 15, 2023	Joint Economic Development Initiative (JEDI)	Tradeshaw
Feb 16, 2023	Pabineau First Nation, North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Mar 01, 2023	North Shore Mi'gmaq District Council (NSMDC), SOAR Professional Services	Video Conference
Mar 01, 2023	Pabineau First Nation, North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Mar 16, 2023	Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	In-person / face-to-face and Video Conference
Mar 16, 2023	Saint Mary's First Nation	In-person / face-to-face
Mar 20, 2023	SOAR Professional Services	Video Conference
Mar 21, 2023	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Mar 23, 2023	Indigenous Works	Video Conference
Mar 27, 2023	North Shore Mi'gmaq District Council (NSMDC)	Video Conference
Mar 27, 2023	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Mar 28, 2023	Peskotomuhkati Nation	Video Conference
Mar 28, 2023	Elsipogtog First Nation & KOPIT Lodge, Mi'gmawe'l Tplu'taqnn Incorporated, Wolastoqey Nation in New Brunswick (WNNB), North Shore Mi'gmaq District Council (NSMDC), Peskotomuhkati	Multiple/various methods
Mar 31, 2023	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
Apr 05, 2023	Pabineau First Nation, Kiewit	In-person / face-to-face
Apr 12, 2023	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
Apr 18, 2023	Mi'gmawe'l Tplu'taqnn Incorporated (MTI), North Shore Mi'gmaq District Council (NSMDC), MUIN	In-person / face-to-face
Apr 19, 2023	North Shore Mi'gmaq District Council (NSMDC)	In-person / face-to-face
Apr 25, 2023	Elsipogtog First Nation & KOPIT Lodge, Mi'gmawe'l Tplu'taqnn Incorporated, Wolastoqey Nation in New Brunswick (WNNB), North Shore Mi'gmaq District Council (NSMDC), Peskotomuhkati	In-person / face-to-face
Apr 27, 2023	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
May 10, 2023	Wolastoqey Nation in New Brunswick (WNNB)	Video Conference
May 18, 2023	Wolastoqey Nation in New Brunswick (WNNB)	Field Visit
May 23, 2023	Peskotomuhkati Nation	Video Conference
May 26, 2023	Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Video Conference
May 30, 2023	Elsipogtog First Nation & KOPIT Lodge, Mi'gmawe'l Tplu'taqnn Incorporated, Wolastoqey Nation in New Brunswick (WNNB), North Shore Mi'gmaq District Council (NSMDC), Peskotomuhkati	In-person / face-to-face, Video Conference
Jun 03, 2023	Indigenous Advisory Council (IAC) for the NRCan SMR Action Plan	Tour
Jun 04, 2023	SOAR Professional Services	Conference / seminar
Jun 13, 2023	Assembly of First Nations, North Shore Mi'gmaq District Council (NSMDC)	Conference / seminar