Bruce Power
Innovation at work

Owen Tanner
Energy Manager
Saugeen Ojibway Nation Environment Office
010129 Highway 6
Georgian Bluffs, ON
N0H 2T0

Dear Mr. Tanner,

Re: SON's March 6, 2026 Letter "Work Required for Bruce Power's Workplan for Bruce C"

We write in respect to your letter, dated March 6, 2026, regarding the Saugeen Ojibway Nation (SON) Technical Team's, including SON's Subject Matter Experts (Technical Team) concerns regarding the Draft Impact Statement Phase Workplan (draft Workplan) and the Impact Statement Schedule for the proposed Bruce C Project (Project).

We wish to clarify the purpose of the draft Workplan shared with SON (provided in Appendix A). The objective of the draft Workplan was to pull together technical information and discussions that had been shared over the past several months by SON and Bruce Power into one document. The draft Workplan was prepared with the objective of being a consolidated planning tool to support a mutual understanding of key milestones and activities during the Impact Statement phase of the Project. The level of detail SON is requesting is what would typically be developed through collaborative Technical Team meetings as part of the development of the Impact Statement and Licence to Prepare Site (LTPS) application. It is, and has always been, Bruce Power's intention to further develop the draft Workplan collaboratively with SON and its Technical Team and to use the Workplan as a roadmap to guide the work required to develop the Impact Statement and LTPS application. We would envision meeting regularly with your Technical Team to incorporate SON feedback into the Workplan and then ultimately working collaboratively on the content of the draft Impact Statement and LTPS application sections. The draft Workplan was provided to you as a starting point for that collaboration.

Bruce Power acknowledges that SON has voiced concerns about the Impact Assessment process timelines proposed in the Bruce C Project Charter. The Project Charter stated that Bruce Power will consider additional time to complete the Impact Assessment process, where reasonable, to support meaningful engagement with SON. A critical element in considering refinements to the Project schedule is an understanding of SON's intention to conduct any SON led assessments, and any SON Knowledge to be shared, including when this information would be available and how SON would prefer to be engaged. To support this discussion, Bruce Power shared a detailed weekly Impact Statement phase schedule in November 2025 to facilitate dialogue on how SON wishes to participate in the Impact Statement phase. The feedback from SON could then be used to refine the Impact Statement phase schedule. The inability of Bruce Power to schedule meetings with SON's Technical Team seems to suggest that SON is declining to participate in this important process, and we believe this is a missed opportunity to understand and incorporate SON Knowledge and feedback into the technical components particularly the cooling strategy of the Impact Statement and LTPS application.

In the absence of opportunities to advance these discussions collaboratively, and consistent with Bruce Power's commitment to consider reasonable schedule adjustments to support SON engagement, Bruce Power is delaying the submission of the Impact Statement and LTPS application to November 27, 2026. This adjustment is intended to preserve flexibility and to allow time for renewed engagement and we hope SON will take this opportunity to re-engage SON's Technical Team which is a critical component to the development of the Impact Statement and LTPS application.

Bruce Power appreciates the extensive comments SON provided on the Bruce C Tailored Impact Statement Guidelines (TISG). We are committed to working collaboratively with SON to address all TISG comments prior to the submission of the Impact Statement and LTPS application. Out of respect for your expertise, we believe that process would be better served by meeting with your Technical Team to ensure we understand the issues and have the requisite SON Knowledge to be able to complete our review and response to the TISG comments. For example, SON's TISG Comment, "*Use SON knowledge to understand the impact of Bruce Nuclear on the fishery, and on safety of consuming these fishes.*" In order for Bruce Power to respond to this comment and refine the Project Schedule, Bruce Power needs to understand what SON Knowledge will be provided, when it will be provided, and how SON wishes for the information provided to be included and considered in the Impact Statement.

Bruce Power continues to value the work completed with SON to date and remains committed to reestablishing regular engagement with SON and your Technical Team. We believe that renewed dialogue, focused on shared understanding of expectations, roles, and timing, would benefit both parties and strengthen the Impact Assessment process.

Sincerely,

<Original signed by>

Kalena Lair, Program Manager, Regulatory Affairs, Bruce C

<Original signed by>

Joanna Moffat, Technical and Administrative Lead, Indigenous Engagement & Partnerships

APPENDIX A: Draft Impact Statement Phase Workplan

From: Kalena Lair [Regulatory, Environment and Sustainabili]
To: <personal inform
Cc: <personal information removed> Joanna Moffat [Environment, Sustainability & Net Zero]
Subject: RE: Updated Impact Statement Phase Schedule
Date: Friday, February 13, 2026 2:27:00 PM
Attachments: image001.png

Hi Emily,

To follow-up to the below email and feedback previously provided on the SON workplan, we have uploaded the updated draft Bruce Power SON Impact Statement Phase Workplan for collaboration (Saugeen Ojibway Nation – Information Sharing - Firmex). The objective of this draft is to pull together information/discussions that have been shared over the past several months by SON and Bruce Power into one document. We welcome any feedback you have on the document.

The draft has been prepared with the objective of being a consolidated planning tool to support an understanding of key milestones and activities during the Impact Statement phase of the Project. This workplan includes:

- Timeline: Impact Statement phase timeline
- SON TISG Comments: Process to address all comments received from SON on the Bruce C TISG
- Impact Statement Methodology: Methodology to be utilized in the development of the Impact Statement and LTPS application
- IAAC Impact Statement Phase Preliminary Workplan: high-level workplan identifying proposed interim submissions and technical workshops for the Impact Statement
- Meetings: proposed meetings, meeting objectives and cadence

Hope you have a nice weekend,
Kalena

Kalena Lair | Program Manager, Regulatory Affairs – Bruce C | **Bruce Power** | Cell 226-930-1497

Bruce Power and Saugeen Ojibway Nation
Bruce C Project - Impact Statement Phase Workplan

DRAFT

Preliminary Draft Shared with SON for Collaboration

Table of Contents

ABBREVIATIONS

Abbreviation	Definition
Bruce C TISG	Bruce C Integrated Tailored Impact Statement Guidelines
CNSC	Canadian Nuclear Safety Commission
EO	SON Environment Office
IAAC	Impact Assessment Agency of Canada
IC	Intermediate Component
LTPS	Licence to Prepare Site
MWe	Megawatts electric
PPE	Plant Parameter Envelope
SON	Saugeen Ojibway Nation
SMEs	Subject Matter Experts
VC	Valued Component
Workplan	Bruce Power and Saugeen Ojibway Nation Impact Statement Phase Workplan

1.0 INTRODUCTION

Bruce Power is evaluating the feasibility of expanding its nuclear fleet, to create an option for future electricity planning. The Bruce C Project (Project) will evaluate the impact of adding up to 4,800 megawatts electric (MWe) of nuclear capacity on the existing Bruce Power site.

Major nuclear projects are subject to an integrated impact assessment led by the Impact Assessment Agency of Canada (IAAC) alongside the Canadian Nuclear Safety Commission (CNSC), the nuclear lifecycle regulator. An impact assessment is a phased planning process which involves Indigenous, municipal and public engagement, environmental, health, and socioeconomic studies.

Bruce Power recognizes that the Bruce Power site is located within the Saugeen Ojibway Nation (SON) Territory, the shared treaty and traditional Territory of the Chippewas of Saugeen First Nation and Chippewas of Nawash Unceded First Nation (Neyaashiinigmiing). Bruce Power is dedicated to honouring Indigenous history and culture and is committed to moving forward in the spirit of reconciliation and respect with the Indigenous Nations and Communities we work with.

The IAAC issued the Notice of Commencement of an Impact Assessment for the Project on August 19, 2025, along with issuing the Integrated Tailored Impact Statement Guidelines (Bruce C TISG). The Bruce C TISG outlines the requirements Bruce Power must meet in the Impact Statement and Licence to Prepare Site (LTPS) application which is prepared by Bruce Power during the Impact Statement phase of the impact assessment process.

2.0 PURPOSE

The following Bruce Power and SON Bruce C Project Impact Statement Phase Workplan (workplan) has been collaboratively developed by Bruce Power and SON as a planning tool to support an understanding of key milestones and activities during the Impact Statement phase of the Project. This workplan includes the following:

- Timeline: Impact Statement phase timeline
- SON TISG Comments: Process to address all comments received from SON on the Bruce C TISG
- Impact Statement Methodology: Methodology to be utilized in the development of the Impact Statement and LTPS application
- IAAC Impact Statement Phase Preliminary Workplan: high-level workplan identifying proposed interim submissions and technical workshops for the Impact Statement phase

- Meetings:
    - SON Environment Office and Bruce Power IA Team Weekly Meetings
    - Technical Subject Mater Expert Meetings: Meeting cadence between Bruce Power and SON Subject Matter Experts (SMEs) and objectives of the meetings
    - Technical IAAC and CNSC Meetings: Technical meetings on key topics with federal and provincial experts

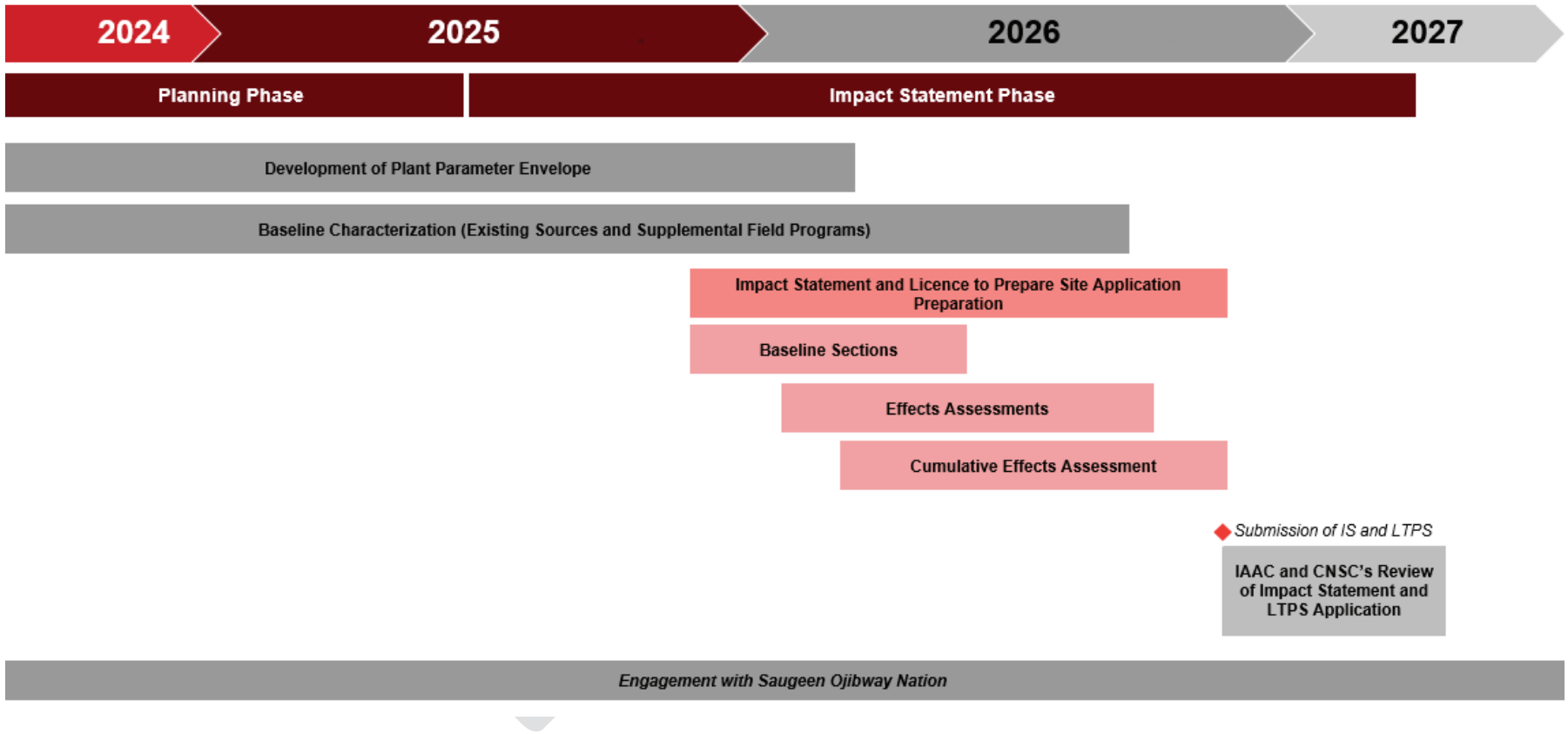
This workplan is considered a living document and will be revisited throughout the Impact Statement phase by Bruce Power and SON to determine if updates are required.

3.0 TIMELINE

The following figure provides a high-level overview of the Impact Statement phase schedule based on methodology further discussed in Section 5 below.

A weekly schedule breakdown of the Impact Statement phase was provided to SON in November 2025, and is provided in Appendix A. The Impact Statement phase schedule will be updated on a bi-weekly basis and shared to the Firmex Site: Saugeen Ojibway Nation – Information Sharing - Firmex

High-Level Impact Statement Schedule Overview



The weekly schedule provided in Appendix A is broken down by each section of the Impact Statement and LTPS application. A color-coded legend is provided with the schedule.

This schedule has been aligned with the Bruce C Project Charter, with submission of the Impact Statement and LTPS application to IAAC and CNSC in August 2026. This is a preliminary schedule Bruce Power would like to further engage with SON on. In order to refine the schedule, engagement is required by Bruce Power and SON to understand:

- Level of SON involvement and collaboration on sections of the Impact Statement and LTPS application;
- Information on SON-led assessments or Indigenous Knowledge SON would like to share as part of the Impact Statement phase; and
- Establishment of SON engagement timelines including feedback on sequencing of sections and timeline allocated for engagement on each of the sections.

4.0 SON TISG COMMENTS

As discussed above, the Bruce C TISG were issued in August 2025 and outlines the requirements Bruce Power must meet in the Impact Statement and LTPS application. As outlined in Section 6 of the Bruce C TISG, SON, "will be submitting additional comments on the Integrated Guidelines. The proponent is expected to address all comments from SON related to effects of the project and impacts on their rights and interests in the development of the Impact Statement. The proponent is required to provide rationale for not addressing specific comments". The TISG comments from SON were received by Bruce Power and posted to the Canadian Impact Assessment Registry on November 3, 2025.

Bruce Power has been reviewing SON's TISG comments and is developing preliminary responses to support engagement with SON. SON's comments on the Bruce C TISG are proposed to be discussed as part of the weekly SON Bruce Power meetings and SON Bruce Power SME meetings described below in Section 7.0. Bruce Power will document how SON's TISG comments were addressed in the Impact Statement as part of a concordance table following engagement with SON.

5.0 IMPACT STATEMENT METHODOLOGY

5.1 Information Provided to Date

The "Saugeen Ojibway Nation Information Sharing Firmex Site" has been used as a platform to share all documents for engagement: Saugeen Ojibway Nation – Information Sharing - Firmex

Table 1 provides an overview of the information that has been shared to date (2025 to present). Documents will continue to be uploaded and shared to the applicable folders as the Project progresses. Table 1 provides the following:

- Folder Section Number;
- Folder Title and Link to Firmex; and
- Content of Each Folder.

Following review of SON's TISG comment regarding baseline data (TISG Comment #7), in November 2025 Bruce Power provided a baseline data table document that outlines sources of data Bruce Power intends to use for the Impact Statement, including existing Bruce Power information, sources of other existing data, as well as information on field programs / studies that have been advanced to support baseline / existing conditions characterization. This baseline data table has been is saved in the Fimex Site (Saugeen Ojibway Nation – Information Sharing - Firmex) and is provided as Appendix B. The baseline data table is a living/working list of resources that will continue to be updated through engagement with SON SMEs and as the technical leads continue to draft the Impact Statement sections. To resolve TISG Comment #7, Bruce Power would like to engage further with SON SMEs on the sources of baseline information during the proposed meetings outlined below in Section 7. Engagement on this information is foundational to the development of the Impact Statement and LTPS application, and also helps to understand overall schedule.

Bruce Power has also provided information to SON including preliminary alternative means criteria and indicators and preliminary valued components and spatial boundaries. Bruce Power would like to engage further with SON on these aspects as they are foundational to the development of the Impact Statement. This is further discussed below in Section 5.2.

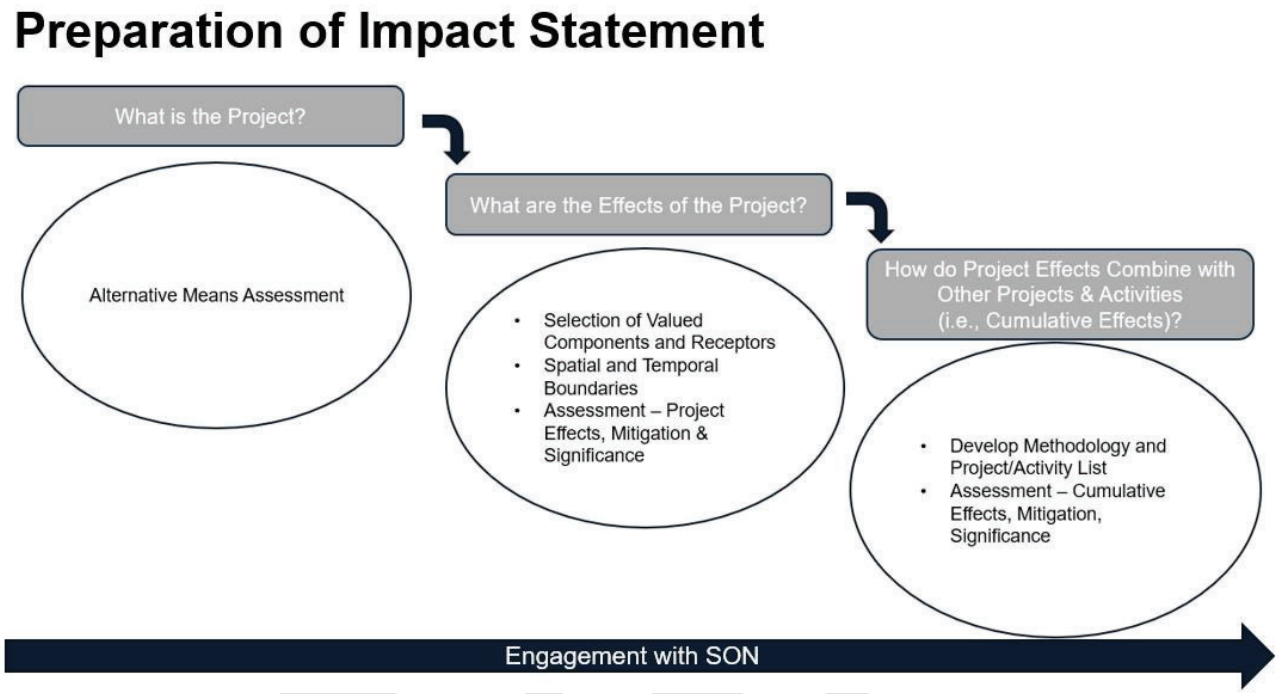
Table 1: Firmex – Structure Overview and Information Shared To Date

(note additional folder content will continue to be added as the Project progresses, the table serves as an overview of existing files shared and a roadmap of the Firmex Site)

Folder Number	Folder Title (Link on Firmex)	Folder Contents
1	Existing Environment & Regulatory Documents https://brucepower.firmex.com/projects/3018/documents?folderId=97	1.1. Environmental Monitoring Methodologies 1.1.1. Baseline Impact Assessment References 1.1.2. Biological Effects Monitoring 1.1.3. Conventional Air Monitoring 1.1.4. Fish 1.1.5. Groundwater Monitoring 1.1.6. Radiological Monitoring 1.1.7. Water 1.2. Environmental Assessment Reports (risk, studies, impact, TSDs etc.) 1.3. Environmental Protection Reports (EPRs) 1.4. Fisheries Act Authorizations 1.5. Annual Five Year Look Ahead Letters 1.6. Quarterly Environmental Summary Reports 1.6.1. Q3 2024 SON Quarterly Report Response References 1.7. Relationship Documents 1.8. Sustainability Reports 1.9. Thermal Effluent Reports and Notifications 1.10. Videos 1.11. ECA Amendments 1.12. Bruce Power Regulatory Documents 1.12.1. FAA 1.12.2. ECA 1.12.3. PTTW 1.13. Existing Aquatic Information 1.13.1. Impingement and Entrainment 1.13.2. Thermal 1.13.3. Shape Files_Habitat_Thermal LSA 1.13.4. Other Reports 1.13.5. Telemetry
2	Impact Assessment https://brucepower.firmex.com/projects/3018/documents?folderId=34	2.1 Impact Statement Work Plan & Schedule 2.2 Bruce C Field Assessments 2.2.1 Daily Field Reports 2.2.2 Field Assessments 2.3 Initial Project Description 2.4 Initial Project Description (IPD) Environment References 2.4.1 Pre-2001 Reports 2.5 Summary of Issues 2.6 Bruce Power's Response to Summary of Issues 2.7 Integrated Tailored Impact Statement Guidelines 2.8 Plant Parameter Envelope

Folder Number	Folder Title (Link on Firmex)	Folder Contents
		2.9 Impact Statement Sections 2.9.1 Introduction 2.9.2 Technical SME Areas 2.9.3 Project Description 2.9.4 Project Purpose, Need and Alternatives Considered 2.9.5 Assessment Methodology 2.9.6 Meteorological Environment 2.9.7 Geology, Geochemistry and Geological Hazards 2.9.8 Topography, Soil and Sediment 2.9.9 Ambient Radioactivity 2.9.10 Electromagnetism and Corona Discharge 2.9.11 Air Quality 2.9.12 Noise and Vibration 2.9.13 Light 2.9.14 Groundwater 2.9.15 Surface Water – Lake 2.9.16 Surface Water – Inland 2.9.17 Terrestrial, Riparian and Wetland Environments 2.9.18 Wildlife and Wildlife Habitat 2.9.19 Wildlife and Wildlife Habitat – Birds 2.9.20 Fish and fish Habitat 2.9.21 Health, Social and Economic 2.9.22 Indigenous Peoples 2.9.23 Security considerations 2.9.24 Accidents and Malfunctions 2.9.25 Effects of the Environment on the Project 2.9.26 Canada's Ability to Meet its Environmental Obligations 2.9.27 Sustainability 2.9.28 Follow-Up Programs and Adaptive Management 2.9.29 Assessment and Summary and Conclusions 2.10 Resources
3	Task Forces https://brucepower.firmex.com/projects/3018/documents?folderId=1282	3.1. Task Force 1 – Mitigation of Aquatic Impacts 3.2. Task Force 2 – Cooling Water Strategy 3.3. Task Force 3 – Socio-Economic
4	Coastal Waters Monitoring Program https://brucepower.firmex.com/projects/3018/documents?folderId=539	4.1. CWMP Data
5	2025 Impingement Event Resources & Mitigation Measures https://brucepower.firmex.com/projects/3018/documents?folderId=331	5.1. CNSC Impingement Event Submission August 2025 5.2. Mitigation Measures

2.1 Methodology Section of Impact Statement



Bruce Power is currently developing the draft Assessment Methodology section of the Impact Statement as per Section 7 of the Bruce C TISG. The draft Assessment Methodology section will be shared with SON for engagement. This section will include the methods for the following aspects of the Impact Statement:

- Describe how Indigenous Knowledge and Community Knowledge was collected and incorporated into the Impact Statement.
- Describe how climate change was considered as part of the Impact Statement.
- Define the Valued Components (VCs) and Intermediate Components, as well as the associated measurement indicators, for the biophysical, social, heritage, cultural, and economic aspects of the environment, including Indigenous Peoples that could be potentially affected by the Project.
- Define the spatial and temporal boundaries of the Impact Statement.
- Describe and, where possible, quantify the existing conditions to provide context for evaluating potential Project-specific effects and cumulative effects from existing conditions, the Project, and reasonably foreseeable projects and physical activities.

- Identify where the Project may interact with the environment and identify and describe the potential effects of the Project. This step also includes the identification of mitigation measures that will avoid, eliminate, reduce, or control potential adverse effects, and enhancement measures to increase potential positive effects. After the application of mitigation measures, residual effects are identified.

- Characterize and tabulate residual effects using the following criteria: direction, magnitude, geographic extent, timing, duration, reversibility, frequency, and likelihood of occurrence to provide structure and comparability across VCs and intermediate components. Once residual effects are characterized, a significance determination for VCs is completed.

- Identify how the Project's residual effects may combine with the effects of reasonably foreseeable projects and physical activities to create cumulative effects and identify if additional mitigation measures are required to address these cumulative effects. Cumulative effects remaining after mitigation are also characterized and a significance determination for VCs is completed.

- Identify key bias and uncertainties in the Impact Statement and describe how these were addressed to achieve a precautionary assessment. Discuss the implications of the approaches used to address bias, uncertainties and the level of confidence in the residual effects analysis.

All environmental, health, social and economic disciplines will follow these methods and where required, discipline-specific tailoring will be presented in their respective sections of the Impact Statement (e.g., discipline-specific spatial boundaries). The detailed requirements for each discipline-specific assessment are outlined in the Bruce C TISG. For example, Section 8.7.1 of the Bruce C TISG requires the development of a 3-dimensional numerical geological model and outlines the requirements for that model. The details for this model will be included in the groundwater section of the Impact Statement and will be important topics to discuss with SON as part of the proposed Technical Bruce Power and SON Subject Matter Expert Meetings as described below in Section 7.2.

As noted in the weekly schedule provided in Appendix A, Bruce Power plans to provide the draft Assessment Methodology section to SON. Engagement with SON will be important to support the development of this section of the Impact Statement. Key areas of discussion include if there are SON-led assessments and an understanding of any Indigenous Knowledge SON wishes to share and how SON would like that information included in the Impact Statement. Early engagement on these topics will allow Bruce Power to develop an overall method through engagement with SON.

To support the development of the Impact Statement and LTPS application, engagement between SON and Bruce Power may include but not limited to the following:

- Provide feedback on existing Bruce Power baseline data or provide SON data;
- Share points of view on the Project's potential impacts on the exercise of rights and interests with Bruce Power to inform the Impact Statement (IEPP, 2025);
- Engage with Bruce Power to gather relevant information about the Project's adverse effects (direct and incidental) and discuss mitigation and monitoring measures to address possible adverse effects with Bruce Power to inform the Impact Statement (IEPP, 2025);
- Collaborate on the development of follow up monitoring program (if the project moves forward); and
- Establish approaches for addressing disagreements, in order to seek consensus throughout the development Impact Statement.

The above methodology is proposed to be engaged upon during the SON Bruce Power SME Workshops or through engagement with SON technical leads.

3 IAAC IMPACT STATEMENT PHASE PRELIMINARY WORKPLAN

As per Section 1.4 of the Bruce C TISG, "the proponent is expected to provide IAAC and Canadian Nuclear Safety Commission (CNSC) a workplan for the Impact Statement phase of the integrated assessment, within 3 months of the Notice of Commencement". Bruce Power provided IAAC with an Impact Statement Phase Preliminary Workplan in November 2025. The draft IAAC workplan document was provided to SON prior to submission. The high-level workplan identifying proposed interim submissions and technical workshops is provided in Appendix C. As noted in the document, Bruce Power considered the guidance provided in the IAAC's letter "Expectations for the Impact Statement Phase of the Bruce C Nuclear Project" (October 8, 2025, Guidance Letter). IAAC provided five options for early review. Bruce Power is proposing to do a combination of interim submissions and technical meetings, prior to submission of the Impact Statement and LTPS application. The IAAC workplan document is a living document and iterative updates will be provided to IAAC and CNSC as engagement with SON continues. Bruce Power will engage with SON on any subsequent updates of the IAAC workplan prior to submitting to IAAC and CNSC.

4 MEETINGS

The following sections outline proposed meetings, meeting objectives and cadence throughout the Impact Statement phase.

7.1 SON Environment Office and Bruce Power IA Weekly Meetings

Weekly meetings between Bruce Power and SON's Environment Office will continue, with the objective to discuss Bruce Power's progress on the Impact Statement and LTPS application and to discuss SON's participation and engagement. These meetings support collaborative engagement to support the ability for SON to meaningfully participate in the development of the Impact Statement and LTPS application. Information for engagement, including Impact Statement and LTPS application sections will be uploaded to the Firmex Site and be provided to SON Environment Office Project Manager.

7.2 Technical Subject Matter Expert Meetings

Bruce Power and SON SMEs meetings will continue during the Impact Statement phase. The meetings may also be attended by the technical leads from WSP. The purpose of these meetings is to bring together the respective SMEs to discuss the technical details for their respective areas of the Impact Statement and LTPS application. Meeting objectives may include review of field program methodology and reports, discipline specific content will include but are not limited to valued components, spatial boundaries, baseline data sources, effects assessment methods (e.g., models), mitigation, cumulative effects, and SON's TISG comments. Cadence is proposed to be bi-weekly, and will be adjusted as needed.

7.3 Technical IAAC and CNSC Meetings

As outlined in the IAAC Guidance Letter (October 8, 2025), IAAC and CNSC can hold and coordinate proponent-led technical meetings on key issues with federal and provincial experts. A list of proposed preliminary topics for technical meetings has been included in Appendix D for further discussion with IAAC and CNSC.

The proposed intent of the technical meetings is to allow an opportunity for early familiarization of sections prior to submission of the Impact Statement and LTPS application to IAAC and CNSC. During these technical meetings, Bruce Power may share information on approach, key findings, etc; however, the drafting of these sections are not dependent on the technical meetings and will advance as outlined in the preliminary schedule.

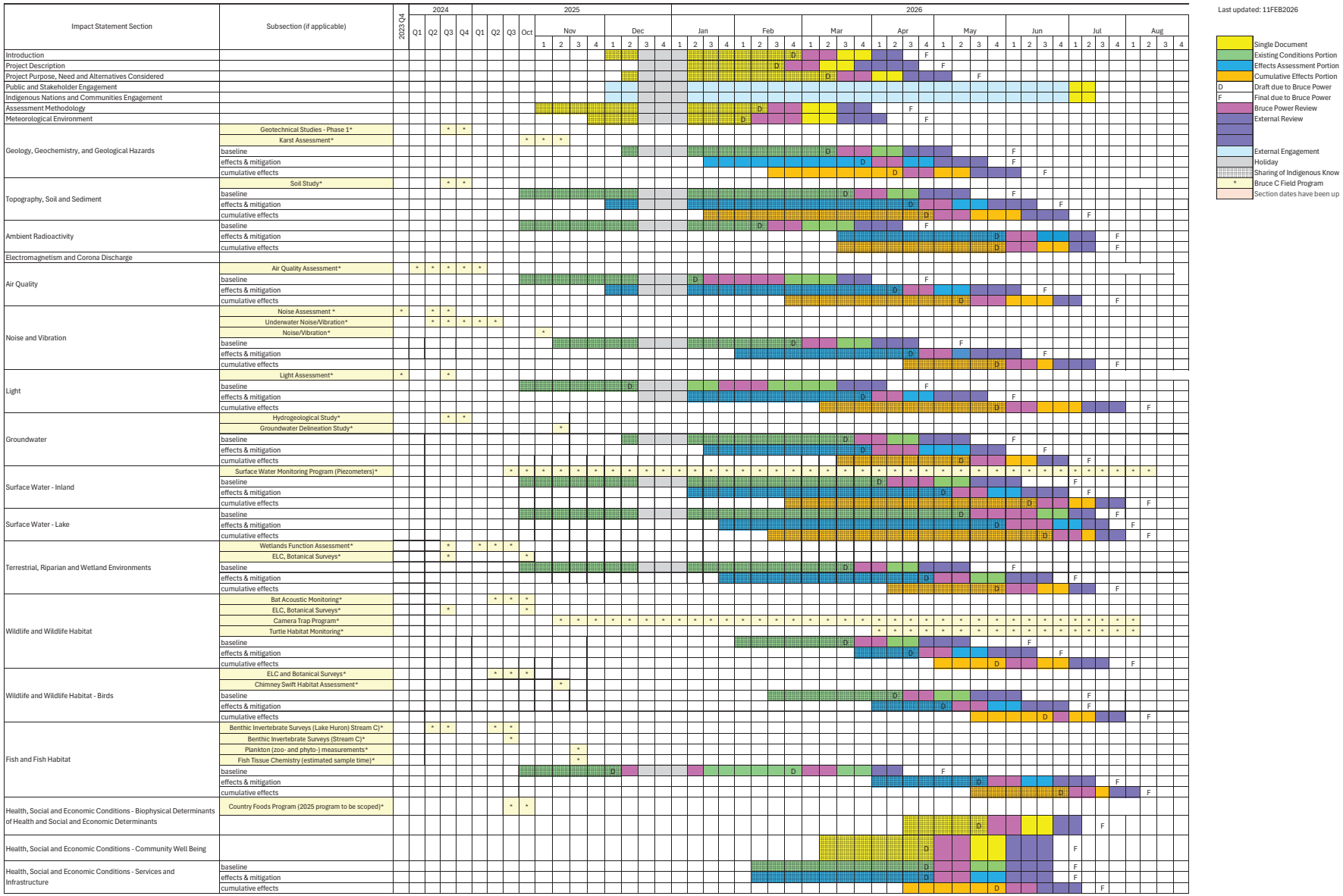
SON will be invited to attend and participate in the technical IAAC and CNSC meetings.

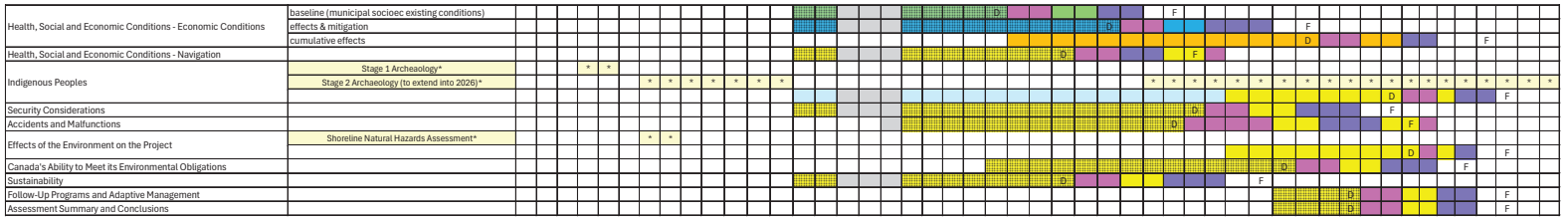
5 CONCLUSION

This workplan has been developed collaboratively between Bruce Power and SON to provide an overview of the timeline, key milestones, and activities during the Impact Statement phase of the Bruce C Project. This workplan is considered a living document and will be reviewed together as the Impact Statement phase progresses.

APPENDIX A: Impact Statement Phase Weekly Schedule

(Note: The Impact Statement phase schedule will be updated on a bi-weekly basis and shared to the Firmex Site, shown here as an example 11FEB2026 version)


Impact Statement Section
Subsection (if applicable)
2023 Q4
2024
2025
2026
Q1 Q2 Q3 Q4 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug
Introduction
Project Description
Project Purpose, Need and Alternatives Considered
Public and Stakeholder Engagement
Indigenous Nations and Communities Engagement
Assessment Methodology
Meteorological Environment
Geology, Geochemistry, and Geological Hazards
Geotechnical Studies - Phase 1*
Karst Assessment*
baseline
effects & mitigation
cumulative effects
Topography, Soil and Sediment
Soil Study*
Ambient Radioactivity
Electromagnetism and Corona Discharge
Air Quality
Air Quality Assessment*
Noise and Vibration
Noise Assessment *
Underwater Noise/Vibration*
Noise/Vibration*
Light
Light Assessment*
Groundwater
Hydrogeological Study*
Groundwater Delineation Study*
Surface Water - Inland
Surface Water Monitoring Program (Piezometers)*
Surface Water - Lake
Terrestrial, Riparian and Wetland Environments
Wetlands Function Assessment*
ELC, Botanical Surveys*
Wildlife and Wildlife Habitat
Bat Acoustic Monitoring*
ELC, Botanical Surveys*
Camera Trap Program*
Turtle Habitat Monitoring*
Wildlife and Wildlife Habitat - Birds
ELC and Botanical Surveys*
Chimney Swift Habitat Assessment*
Fish and Fish Habitat
Benthic Invertebrate Surveys (Lake Huron) Stream C)*
Benthic Invertebrate Surveys (Stream C)*
Plankton (zoo- and phyto-) measurements*
Fish Tissue Chemistry (estimated sample time)*
Health, Social and Economic Conditions - Biophysical Determinants of Health and Social and Economic Determinants
Country Foods Program (2025 program to be scoped)*
Health, Social and Economic Conditions - Community Well Being
Health, Social and Economic Conditions - Services and Infrastructure
Last updated: 11FEB2026
Single Document
Existing Conditions Portion
Effects Assessment Portion
Cumulative Effects Portion
D Draft due to Bruce Power
F Final due to Bruce Power
Bruce Power Review
External Review
External Engagement
Holiday
Sharing of Indigenous Know
* Bruce C Field Program
Section dates have been up


Health, Social and Economic Conditions - Economic Conditions
baseline (municipal socioec existing conditions)
effects & mitigation
cumulative effects
Health, Social and Economic Conditions - Navigation
Indigenous Peoples
Stage 1 Archeaology*
Stage 2 Archaeology (to extend into 2026)*
Security Considerations
Accidents and Malfunctions
Effects of the Environment on the Project
Shoreline Natural Hazards Assessment*
Canada's Ability to Meet its Environmental Obligations
Sustainability
Follow-Up Programs and Adaptive Management
Assessment Summary and Conclusions

APPENDIX B: Baseline Data Table

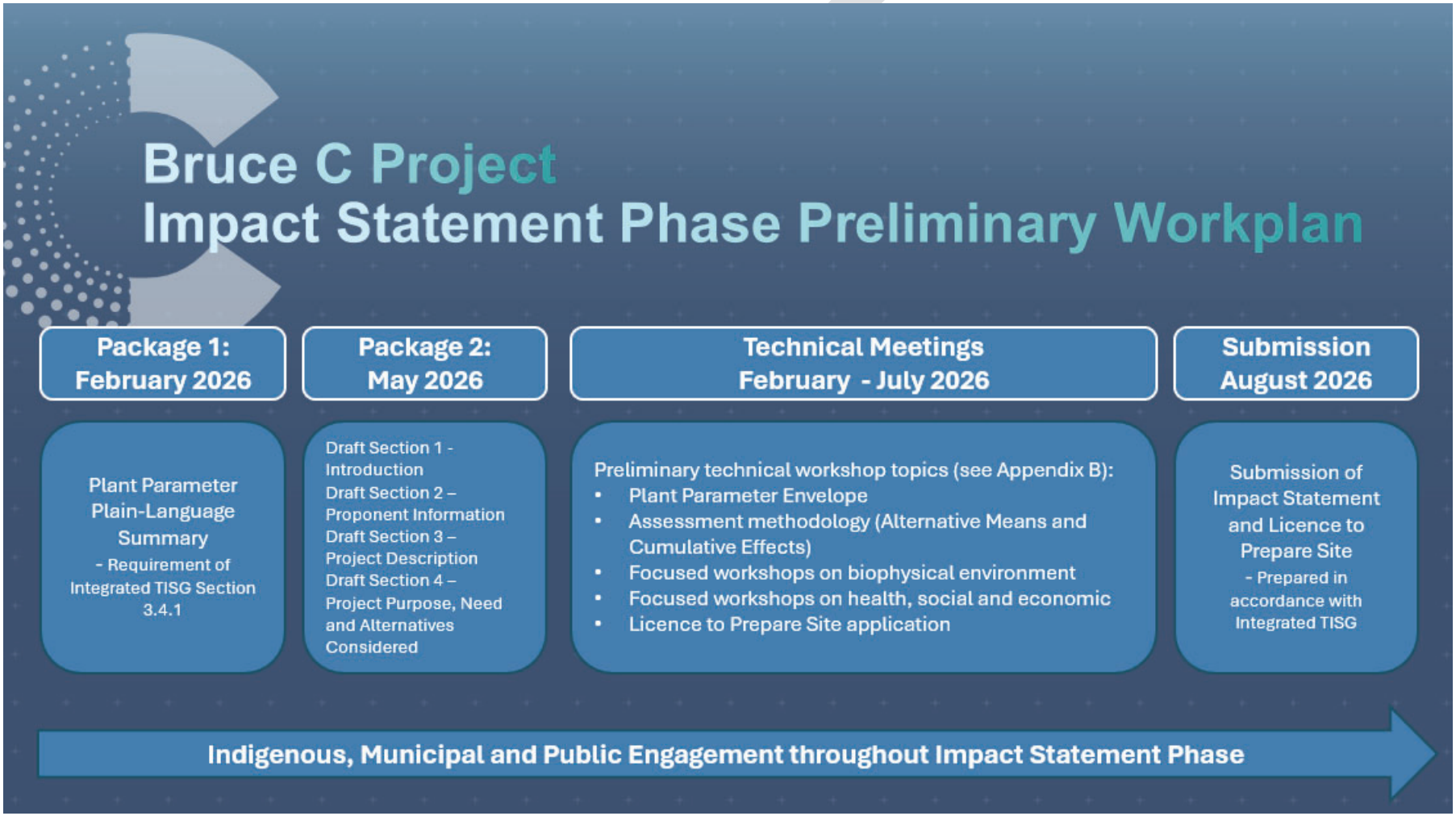
(Note: The baseline data table is a living/working list of resources that will continue to be updated through engagement)

TISG Section Ref	TISG Section	Subsection	Sources of Existing Bruce Power Data *(information being used to support trends are italicized)*	Information being used to support PSA, LSA or RSA	Sources of Other Existing Data	Information being used to support PSA, LSA or RSA	Supplemental Baseline Field Programs/Studies (completed studies identified in bold)	Information being used to support PSA, LSA or RSA	Research / Monitoring
1	Introduction								
		1.1 Site Evaluation and site preparation for new nuclear reactor facilities	n/a		n/a				
		1.2 Factors to be considered in the integrated assessment	n/a		n/a		n/a		
		1.3 Gender-Based Analysis Plus	n/a		n/a				
		1.4 Preparing the Impact Statement	n/a		n/a		n/a		
		1.5 Format and accessibility	n/a		n/a		n/a		
2	Proponent Information								
		2.1 The proponent	n/a		n/a		n/a		
		2.2 Qualifications of individuals preparing the Impact Statement	n/a		n/a		n/a		
		2.3 Management system for site evaluation			n/a				
3	Project Description								
		3.1 Project overview	n/a		n/a		n/a		
		3.2 Project location	n/a		n/a		n/a		
		3.3 Regulatory framework and the role of government	n/a		n/a		n/a		
		3.4 Project components and activities	n/a		n/a		n/a		
		3.5 workforce requirements			n/a		Workforce Assessment Study		
4	Project Purpose, Need and Alternative Considered		n/a						
		4.1 Purpose of the project	n/a		n/a		n/a		
		4.2 Need for the project	n/a		n/a		n/a		
		4.3 Alternatives to the project	n/a		n/a		n/a		
		4.4 Alternative means of carrying out the project	n/a		n/a		n/a		
5	Description of Public Participation and Views								
		5.1 Summary of public engagement activities	n/a		n/a		n/a		
		5.2 Analysis and response to questions, comments, and issues raised	n/a		n/a		n/a		
6	Description of Engagement with Indigenous Nations and Communities								
		6.1 Indigenous Knowledge considerations	n/a		n/a				
		6.2 Record of engagement	n/a		n/a				
		6.3 Issues identification and resolution	n/a		n/a				
		6.4 Collaboration with Indigenous Peoples following the submission of the Impact Statement	n/a		n/a				
7	Assessment Methodology								
		7.1 Uncertainty and bias	n/a		n/a		n/a		
		7.2 Baseline methodology			n/a				
		7.3 Selection of valued components			n/a				
		7.4 Spatial and temporal boundaries			n/a				
		7.5 Effects assessment methodology	n/a		n/a		n/a		
		7.6 Mitigation and enhancement measures	n/a		n/a		n/a		
		7.7 Cumulative effects assessment	n/a		n/a		n/a		
		7.8 Extent to which adverse federal effects are significant	n/a		n/a		n/a		
		7.9 General criteria for site evaluation			n/a				
8	Biophysical Environment								
		8.1 Meteorological environment	2022 ERA - Appendix A has 5 year data set. Met tower locations in Section 1.4, Table 5 EPR - Annual met data information (2024 report, section 3.2. 2, Appendix B) Changing Environmental Conditions Report - Issued annually, includes internal and external data	N/A. Meteorology does not have a study area.	NEX-GDDP future climate projections (future climate) ERA5 reanalysis data (current climate) Regional Met Station Data from ECCC (current climate)	N/A	N/A	N/A	
		8.2 Geology, geochemistry and geological hazards	2022 ERA - Appendix A, Section 1.5, Geology and Hydrogeology 2008 EA - TSD Geology and Hydrogeology 2005 Bruce A Refurbishment for Life Extension and Continued Operation Project EA - Geology, Hydrogeology and Seismicity TSD Bruce Heavy Water Plant Decommissioning - Environmental Assessment Study Report	PSA, LSA and RSA	Intera Engineering Ltd. Descriptive Geosphere Model, OPG's Deep Geologic Repository, NWMO DGR-2011-24, March 2011 Itasca Consulting Canada, Inc. and AECOM Canada Ltd. Three-Dimensional Geological Framework Model, OPG's Deep Geologic Repository, NWMO-TR-2011-42, March 2011 IRH Worthington, Karst Assessment, Karst Assessment OPG's Deep Geologic Repository, NWMO DGR-TR2011-22, March 2011 Chapman, L. J., & Putnam, D. F. (1984). The Physiography of Southern Ontario (3rd ed.). Toronto, Ontario: Ontario Geological Survey, Special Volume 2, Ontario Ministry of Natural Resources. Ontario Geological Survey. (1997). Quaternary Geology of Ontario [Digital Map, ERLIS Data Set 14]. Ontario Ministry of Northern Development and Mines. Scale 1:1,000,000. Bedrock Geology of Ontario [Digital Map, ERLIS Data Set]. Ontario Ministry of Northern Development and Mines. Scale 1:250,000. Golder Associates Ltd. 2008. Geology and Hydrogeology Technical Support Document for the Bruce New Nuclear Power Plant Project Environmental Assessment. Version 1, May 2008.	PSA, LSA, RSA	**Geotechnical, Hydrogeological and Environmental Sampling (including Aggregate Testing, Bedrock Analysis)** Karst Assessment (scheduled Fall 2025)	PSA, LSA	
		8.3 Topography, soil and sediment	2022 ERA - Appendix B, Section 2.3.5.1, Appendix C, Appendix E, Section 5.1, Appendix A, Section 1.1, Engineered Site Facilities; Appendix A, Section 1.3, Areas of Previous Environmental Investigation; Appendix B, Section 2.1.5 and Appendix C, Identification of COPCs 2021 EPR - Included in Section 6.1.5	PSA, LSA	Golder Associates Ltd, Due Diligence Review – Bruce Heavy Water Plan, July 16, 2015. Ontario Power Generation, Final End State Report, Bruce Heavy Water Decommissioning, 0124-REP-00960-00013-R000, June 19, 2019. Ontario Hydro, Engineering Division, Phase I Environmental Site Assessment for Bruce Heavy Water Plant, October 1998. Ontario Power Generation, Bruce Heavy Water Plant Decommissioning, Environmental Assessment Study Report, Draft, October 2002. Kinectrics Inc. , Bruce Heavy Water Plant Monitoring and Follow-up Program: Phase 2 - Demolition, 0124-REP-07720-00001, November 2006. Ontario Power Generation, Environmental Assessment Follow-up and Monitoring Program: Phase 1 Report – Pre-demolition Phase, 0124-REP-00960-00001, March 2005. Conestoga-Rovers & Associates, Post Demolition Environmental Monitoring and Soil Remediation Program - Post Demolition Soil Sampling Activities, 0124-REP-00960-00004 R0, August 2007. Kinectrics Inc., End State Environmental Monitoring Program: Summary Report (2009 to 2012) Former Bruce Heavy Water Plant, Tiverton, Ontario, 0124-REP-00531-00014, February 2013. Wardrop Engineering Inc., BHWP Decommissioning Program, Phase II ESA - Field Sampling Program, October 1998. Ontario Power Generation, Bruce Heavy Water Plant Environmental Assessment Follow-up and Monitoring Closure Report, 0124-REP-00960-00013, June 18, 2013. CH2M Hill Canada Limited, Shallow Soil Investigation at the Enriching Unit 3 Area within Bruce Power Generating Station, 0124-CORR-00134-0322301, February 17, 2010. Conestoga-Rovers & Associates, Soil Remediation Program, Former Bruce Heavy Water Plant, Tiverton, Ontario, December 2008. Ontario Power Generation, Annual Report to the Canadian Nuclear Safety Commission for 2009 - Heavy Water Plant Decommissioning License Number HWPDL-01.01/2014, 0124-REP-00531-00009, February 24, 2010. Ontario Power Generation, Annual Report to the Canadian Nuclear Safety Commission for 2008, Heavy Water Plant Decommissioning License Number HWPDL-01.01/2014, 0124-REP-00531-00006-R000, February 23, 2009. Quantum Environmental Group, Heavy Water Plant - Effluent Lagoon Remediation, Bruce Nuclear Power Site, Interim Report, 0124-REP-00960-00003, November 2005. D. E. Inc., "Heavy Water Plant - Effluent Lagoon Remediation Bruce Nuclear Power Site for Ontario Power Generation, Final Report, OPG Report No. 124-CORR-11420-13224419," October 2009. Ontario Hydro, Bruce Nuclear Power Development Site Nuclear Waste and Environment Services Divisions, Stormwater Control Study, NK37(BS)-07294-97034 (ED), December 1, 1997. Ontario Power Generation, Gamma Radiological Survey of Bruce Heavy Water Plant Site to Confirm Decommissioning End State, 0124-REP-00531-00015, 2013. Ontario Hydro Nuclear Division, Phase I and Phase II Environmental Site Assessments of the Bruce Heavy Water Plant, 1998.	PSA, LSA, RSA	**Soil sampling completed as part of the 2024 geotechnical field program** Soil sampling proposed to be completed as part of fall 2025 groundwater monitoring field program	PSA, LSA	
					Ontario Power Generation, Annual Report to the Canadian Nuclear Safety Commission for 2007 Heavy Water Plant Decommissioning License Number HWPDL-01.00/2014, 0124-REP-00531-00005-R001, April 9, 2008. Golder Associates Ltd., Due Diligence Review – Bruce Heavy Water Plant, Project No. 1531989, July 16, 2015. CH2M Hill Canada Limited, Summary of the Former Bruce Heavy Water Plant Groundwater Sampling, Project No. 406835.15.08, November 29, 2016. Jacobs, Groundwater Monitoring and Sampling Program, 2018 Groundwater Monitoring and Sampling Report, Project No. 437463CH, June 2019. Jacobs, Groundwater Monitoring and Sampling Program, 2019 Groundwater Monitoring and Sampling Report, Project No. C5755300, February 7, 2020. Jacobs, 2020 Groundwater Annual Program Summary, Bruce Power Annual Groundwater Monitoring Program, Project No. CE755300, dated April 28, 2021, prepared by Jacobs. Jacobs, 2021 Annual Groundwater Protection Program Monitoring Summary, Project No. CB21800, May 31, 2022. Jacobs, 2022 Annual Groundwater Protection Program Monitoring Summary, Project No. C846900, June 20, 2023. Jacobs, 2023 Annual Groundwater Protection Program Monitoring Summary, Project No. C862900, April 16, 2024. Jacobs, 2024 Annual Groundwater Protection Program Monitoring Summary, Project No. CB90200, February 13, 2025. WSP, Soil Sampling and Analysis Recommendations, Bruce Power LP, Tiverton, Ontario, Project No. CA-GLD-22522226, January 14, 2025. WSP, Geotechnical, Hydrogeological and Environmental Data Report, Siting Scenario 2 – Bruce Power Expansion, Investigation Phase 1, March 28, 2025 WSP, Soil Sampling and Analysis Recommendation, Bruce Power LP, Tiverton, Ontario, January 14, 2025. WSP, Geotechnical, Hydrogeological and Environmental Data Report, Siting Scenario 1 – Bruce Power Expansion, Investigation Phase 1, April 7, 2025 WSP, Geotechnical, Hydrogeological and Environmental Data Report, Siting Scenario 3 – Bruce Power Expansion, Investigation Phase 1, March 25, 2025 https://www.hub.geologyontario.mines.gov.on.ca/ Nuclear Innovation Institute Annual Report, 2024 (Using lake sediments to understand long-term environmental changes)				
		8.4 Ambient radioactivity	Dose to workers - see Radiation Protection Dose to humans and radioactivity in the environment - see 2022 ERA Section 3.0 and Appendix L. Dose to non-human biota - see 2022 ERA Section 5.0 and Appendix N. 2022 ERA Section 4.1.1.1 and Appendix C Radiological monitoring - see 2024 Environmental Protection Report Section 6.1 and 2022 ERA Appendix L and N. Bruce Power Radiological Environment Monitoring Program data	To be populated	*Additional data sources are still being compiled and will be added in a later version of the work plan*	To be populated			Effects of low dose radiation exposure research

		8.5 Electromagnetism and corona discharge	2022 ERA - Section 6.1 2023 EPR - Section 5.2.2.2		*Additional data sources are still being compiled and will be added in a later version of the work plan*				
		8.6 Atmospheric, acoustic and visual environment	2008 EA -TSD Air Quality and Noise 2022 ERA - Appendix A, H, J, L, N, Section 6.1 includes a summary of noise monitoring programs and monitoring locations between 2015 and 2020 2024 EPR - Section 5.2 for Conventional Air Emissions Monitoring includes a summary of reports covering air emissions 2023 NPRI Reports include PM2.5, PM10, CO, SO2 and NOx that includes data from 2023 February 7, 2025 ESDM Report	N&V - PSA, LSA and RSA Light - Limited existing data was available Air Quality - PSA, LSA and RSA	Noise and Vibration - ECA / EASR information from other facilities in the vicinity of the project and identified sensitive receptors Light - No other known sources available Air Quality - NAPS data for background air quality - 2007 - 2023 - NPRI data for other facilities in the vicinity that contribute to background air quality from 2023 - CAPMON for acid deposition - Dates to be determined - ECA/EASR information for other facilities in the vicinity for cumulative effects discussion - Various dates to Present - Meteorological Data from Lakes Environmental services for dispersion modelling - dates unknown at this time - Terrain Data from MECP for dispersion modelling published in 2017 - Additional data sources are still being compiled and will be added in a later version of the work plan	N&V - PSA, LSA and RSA Light - Limited existing data available from other sources Air Quality - PSA, LSA and RSA	Noise and Vibration - Monitoring (on-land and underwater) completed in 2023 through 2025 **Light - Measurements of existing conditions completed in 2023 and 2024** **Air Quality - Ambient Air Monitoring completed in 2025 with data from Feb 2024 to Feb 2025**	N&V - PSA, LSA and RSA Light - PSA, LSA and RSA Air Quality - PSA, LSA and RSA	
		8.7 Groundwater and surface water	2008 EA - TSD Geology and Hydrogeology; TSD Hydrology and Water Quality 2022 ERA - Appendix A; Appendix C, Section 3.3.7 Drinking Water, Section 3.4.4 Groundwater, Section 3.4.5 Surface Water, Section 3.4.7 Drinking Water (2017 to 2021); Appendix E, Section 5.2 Groundwater Tables 125-127; Section 5.3 Surface Water Tables 129 to Table 132; Appendix O, Section 15.1 2024 EPR - Section 6.2.1, Routine Lake Water Quality and Stream Water Quality Assessment, Appendix E; Section 7.0: Groundwater Protection Program, Appendix F Recent export of water quality, current, and temperature data from Bruce Power's database (2019 to 2025) Existing and future operational conditions for Bruce Power A and B B-REP-07294-00003, Groundwater Monitoring Program Design Report, 2022	PSA, LSA, RSA	NOAA - lake bathymetry ECCC - offshore temperature data WSC/USGS - flow data for key tributaries Other disciplines (internally) - GIS (e.g., land use) and meterological data Conservation Authority - inland data (possibly) Nuclear Innovation Institute Annual Report, 2024 (Spotter buoys: Tracking Lake Huron's water data) Additional data sources are still being compiled and will be added in a later version of the work plan	PSA, LSA, RSA	**Geotechnical, Hydrogeological and Environmental Sampling completed in 2024** Groundwater quality and further hydrogeological data to be collected as part of fall 2025 groundwater field program ADCP data in lake - on going Piezometer field work - [2025-ongoing]	Additional data sources are still being compiled and will be added in a later version of the work plan and version of the work plan LSA - for piezometer work LSA/RSA - for ADCP data in lake	Ice and wave modelling Intake temperature prediction/forecasting Discharge velocity and bathymetry conditions
		8.8 Terrestrial, riparian and wetland environments	2022 ERA, Appendix A, Section 1.9: Species at Risk; Table 11 (vascular plants section of table), Section 1.6.2: Plant Species, Section 1.6.3: Culturally Significant Plant Species, Table 7 (SON), 2022 ERA: Appendix A, Section 1.2, Description of the Natural and Physical Environment; Section 1.2.4: Areas of Environmental Significance, Section 1.8.2 Aquatic Vegetation (Macrophytes), Appendix A, Section 1.6, Vegetation Communities; Appendix A, Section 1.7, Wildlife Habitat and Communities, Appendix A, Section 1.2.4: Areas of Environmental Significance Bio-Inventory and Site Assessment Final Report, 2017, Appendix A, Table 1, Appendix B, Tables 1 and 2 (data from 2016-2017) 2022 ERA Section 1.3.4.5: Saugeen Ojibway Nation 2022 ERA, Appendix A, Section 1.6.3: Culturally Significant Plant Species, Table 7 (SON), Appendix A Section 1.8.1: Aquatic Habitat, Section 3.4.5.3: Surface Water Results, Figure 48 2021 Site Specific Survey 2008 EA: TSD Terrestrial Environment [data from 2006-2007] Golder. (2011). Terrestrial Environment Technical Support Document for DGR Project [data from 2007, 2009] Stantec. (2015). Bruce Power Corporation Natural Heritage Inventory Report. Stantec Consulting Ltd. [data from 2014-2015] LGL. (2002). Bruce Nuclear Power Development Bioinventory Study. LGL Environmental Research Associates. [data from 2000-2001] Annual monitoring studies completed for OPG since 2019 (Javalia) Baie du Dore wetland ecosystem assessment by McMaster completed for Bruce Power in 2015 Bruce Power Natural Heritage geospatial files Bruce C Project	PSA, proximate areas of LSA	Publicly available data and mapping (e.g. Government (WDPA, Species at Risk Public Registry, NHIC, Geospatial Ontario, Bruce County), citizen science (iNaturalist) etc.) Free of Information (FOI) Request Inverhuron and MacGregor Provincial Parks (expected 24Nov2025) Additional data sources are still being compiled and will be added in a later version of the work plan Owen Sound Field Naturalist Vascular-Plant-List	LSA, RSA	Update of Ecological Land Classification and Botanical Inventory [2025] **Wetland Functions Assessment [2024-2025]**	PSA	Drone research to monitor invasive phragmites
		8.9 Terrestrial wildlife and wildlife habitat	2022 ERA: Appendix A, Section 1.2, Description of the Natural and Physical Environment; Appendix A, Section 1.7.4, Species at Risk, Section 1.2, Description of the Natural and Physical Environment 2008 EA: TSD Terrestrial Environment [data from 2006-2007] Stantec. (2015). Bruce Power Corporation Natural Heritage Inventory Report. Stantec Consulting Ltd. [data from 2014-2015] LGL. (2017). Bio-Inventory and Site Assessment Final Report. LGL Limited environmental research associates. [data from 2016-2017] Annual monitoring studies completed for OPG since 2019 (Javalia) EPRs (2020-2024) BEM program studies (2017-2024) and 2025 as results become available Golder. (2011). Terrestrial Environment Technical Support Document for DGR Project [data from 2007, 2009] LGL. (2002). Bruce Nuclear Power Development Bioinventory Study. LGL Environmental Research Associates. [data from 2000-2001] MMM (2001). Terrestrial TSD Bruce A U3 & 4 Restart Environmental Assessment	PSA, proximate areas of LSA	Publicly available data and mapping (e.g. Government (World Database on Protected Areas (WDPA), Species at Risk Public Registry, NHIC, Geospatial Ontario, Bruce County Natural Heritage System), citizen science (iNaturalist) etc.) Freedom of Information (FOI) Request Inverhuron and MacGregor Provincial Parks (expected 24Nov2025)	LSA, RSA	Camera Trap Monitoring [2025] Update of Ecological Land Classification and Botanical Inventory [2025] Turtle Habitat Monitoring [2026-2027] Bat Habitat and Acoustic Survey [2025] Chimney Swift Habitat Assessment [2025]	PSA, proximate areas of LSA	SAR species monitoring
		8.10 Species at risk and their habitat	SAR will be addressed through terrestrial, riparian and wetland environments (plant SAR), terrestrial wildlife and wildlife habitat (wildlife SAR excl. birds), fish and fish habitat (aquatic SAR), and birds and their habitats (bird SAR). Refer to rows 49, 50, 51, 52, 53.	N/A	SAR will be addressed through terrestrial, riparian and wetland environments (plant SAR), terrestrial wildlife and wildlife habitat (wildlife SAR excl. birds), fish and fish habitat (aquatic SAR), and birds and their habitats (bird SAR). Refer to rows 49, 50, 51, 52, 53.		SAR will be addressed through terrestrial, riparian and wetland environments (plant SAR), terrestrial wildlife and wildlife habitat (wildlife SAR excl. birds), fish and fish habitat (aquatic SAR), and birds and their habitats (bird SAR). Refer to rows 49, 50, 51, 52, 53.		
		8.11 Fish and fish habitat	2008 EA: TSD Aquatic Environment 2022 ERA - Appendix A, Section 1.8: Aquatic Habitat and Communities, Appendix I: Thermal Risk Assessment 2024 EPR - Sections 6.2.2: Fish Impingement, Entrainment and Offsetting Activities; 6.2.3: Thermal Monitoring of Lake Temperatures; 6.2.4.11: Redd Surveys in Stream C; 6.2.4.12: Smallmouth Bass Nesting. Fisheries Act Authorization Application (sections 7.0 Fish and Fish Habitat, 8.0 Likely Effects, 9.0 Avoidance or Mitigation) 2012 Benthic Community Population Study-Lake Huron EA Follow-up Monitoring Programs (include Smallmouth Bass Nesting Surveys; Lake and Round Whitefish: population genetics, spawning, thermal effects; Impingement and Entrainment; Larval tows (Source Water); Gillnetting)	PSA, LSA, RSA	KPCC fish populations (2017-ongoing) Coastal Waters Monitoring Program (2019-ongoing) Geospatial Ontario Nuclear Innovation Institute Annual Report, 2024 (Aquatic Biota: The impacts of once-through cooling on fall and spring spawning fish, Temperature-based modeling of whitefish egg hatching success, State of the Lake Huron: a Comprehensive Report, Using lake sediments to understand long-term environmental changes)	LSA, RSA	Benthic Invertebrate Community Survey [2024,2025] (nearshore Lake and Inland Watercourse) Fish Tissue chemistry [2025] Plankton (zooplankton and phytoplankton) [2025]	PSA, LSA	Entrainment Pilot Paleolimnology - plankton Improved fish thermal benchmarks Spotter Buoys - real-time thermal monitoring Environmental DNA - support entrainment Trophic hotspots Fish Telemetry Gizzard Shad population estimates and physiology Early warning for fish entrapment - sonar and camera monitoring Index netting Coastal Waters
		8.12 Birds and their habitat	2022 ERA: Appendix A, Section 1.7.2, Birds, Section 1.2, Section 4.1.1.2, Receptor (Valued Ecosystem Component) Selection, Appendix A, Section 1.7.4, Species at Risk, Appendix A, Section 1.7.4, Culturally Significant Wildlife Species 2023 Environmental Protection Report, Sections 6.2.4.4 to 6.2.4.8 2008 EA: Terrestrial TSD [data from 2006-2007] Golder. (2011). Terrestrial Environment Technical Support Document for DGR Project [data from 2007, 2009] Stantec. (2015). Bruce Power Corporation Natural Heritage Inventory Report. Stantec Consulting Ltd. [data from 2014-2015] LGL. (2002). Bruce Nuclear Power Development Bioinventory Study. LGL Environmental Research Associates. [data from 2000-2001] LGL. (2017). Bio-Inventory and Site Assessment Final Report. LGL Limited environmental research associates. [data from 2016-2017] Annual monitoring studies completed for OPG since 2019 (Javalia) EPRs (2020-2024)	PSA, proximate areas of LSA	Publicly available data and mapping (NHIC, Geospatial Ontario, iNaturalist, WDPA, etc.)	LSA, RSA	Chimney Swift Habitat Assessment [2025] Ecological Land Classification and Botanical Surveys [2025]	PSA	
9	Health, Social and Economic Conditions								
		9.1 Health, social and economic conditions	Sources outlined under Health, Social and Economic Conditions in Subsections 9.2-9.5 and under Indigenous Peoples Subsections 10.1-10.4 below. Public data for 2011 to 2025..	LSA, RSA	Statistics Canada Census data, regional health authority public data; Health Infobase; primary and grey literature Additional data sources are still being compiled and will be added in a later version of the work plan Nuclear Innovation Institute Community Resiliency and Readiness Assessments (to be finalized)	LSA, RSA	**Health & Wellbeing Survey (part of Local Population Survey)** Economic Impact Assessment	LSA, RSA	
		9.2 Biophysical determinants of health	Sources outlined under Biophysical Environment Subsections 8.1 - 8.12 above and Health, Social and Economic Conditions sources in Subsection 9.1 above. Public data for 2011 to 2025..	LSA, RSA	Nuclear Innovation Institute Community Resiliency and Readiness Assessments (to be finalized)	LSA, RSA	Country Foods Sampling, Soil Sampling	LSA, RSA	
		9.3 Social determinants of health and community well-being	2023 EPR	LSA, RSA	Statistics Canada Census data, regional health authority public data Nuclear Innovation Institute Community Resiliency and Readiness Assessments (to be finalized)	LSA, RSA	**Health & Wellbeing Survey (part of Local Population Survey)**	LSA, RSA	
		9.4 Services and infrastructure	*To be populated*	n/a	Municipal and county websites, reports Nuclear Innovation Institute Community Resiliency and Readiness Assessments (to be finalized)	LSA, RSA	**Transportation and Traffic Assessment (Traffic Study - Phase 1)**	LSA, RSA	
		9.5 Employment and economics	*To be populated*	n/a	Statistics Canada Census data Municipal and county reports Nuclear Innovation Institute Community Resiliency and Readiness Assessments (to be finalized)	LSA, RSA	Economic Impact Assessment Workforce Assessment Study	LSA, RSA	
		9.6 Navigation	*To be populated*	n/a					
10	Indigenous Peoples								

		10.1 Indigenous physical and cultural heritage, and structures, sites or things of significance	To be populated with collaboration with SON - Indigenous reports and/or survey data (where available and with permission) - TBD	n/a	To be populated with collaboration with SON		Stage 1 Terrestrial Archaeology Assessment Stage 2 Terrestrial Archaeology Assessment Stage 1 and 2 Terrestrial Archaeology Assessment (Geotechnical Field Program) Marine Archaeology Assessment		
		10.2 Current use of lands and resources for traditional purposes	To be populated with collaboration with SON - Indigenous reports and/or survey data (where available and with permission) - TBD	TBD	To be populated with collaboration with SON		To be populated with collaboration with SON		
		10.3 Health, social and economic conditions of Indigenous Peoples	To be populated with collaboration with SON - Indigenous reports and/or survey data (where available and with permission) - TBD	TBD	To be populated with collaboration with SON		To be populated with collaboration with SON		
		10.4 Rights of Indigenous Peoples	To be populated with collaboration with SON - Indigenous reports and/or survey data (where available and with permission) - TBD	TBD	To be populated with collaboration with SON		To be populated with collaboration with SON		
		10.5 Mitigation and enhancement measures	To be populated with collaboration with SON - Indigenous reports and/or survey data (where available and with permission) - TBD	n/a	To be populated with collaboration with SON		To be populated with collaboration with SON		
		10.6 Characterization of residual impacts on Indigenous rights and interests	To be populated with collaboration with SON - Indigenous reports and/or survey data (where available and with permission) - TBD	n/a	To be populated with collaboration with SON		To be populated with collaboration with SON		
11	Security Considerations								
		11.1 Physical protection	*To be populated*		*To be populated*				
		11.2 Transportation routes	*To be populated*		*To be populated*				
12	Effects of Potential Accidents or Malfunctions								
		12.1 Risk assessment	Bruce A and Bruce B Safety Reports		*To be populated*				
		12.2 Mitigation and enhancements measures	*To be populated*		*To be populated*				
		12.3 Emergency management	*To be populated*		*To be populated*				
13	Effects of the Environment on the Project								
		13.1 Meteorological hazards	B2580-TM-0001 R01_ Final Exposure Memo B2580-RP-0001 R01_1_ Climate vulnerability Assessment Bruce A and B Regional Met Station Data - provided from ECCC 2022 ERA - Appendix A has 5 year data set. Met tower locations in Section 1.4, Table 5 EPR - annual met data information (2024 report, section 3.2.2, Appendix B) Changing Environmental Conditions Report - issued annually, includes internal and external data Internal and External Hazards - Bruce PSA External Hazard Assessment (Calian, 2024) High Wind Hazard PSA - Bruce A & B (Kinectrics, 2024)	PSA	NEX-GDDP future climate projections (future climate) ERA5 reanalysis data (current climate) Regional Met Station Data from ECCC (current climate) Nuclear Innovation Institute Annual Report, 2024 (The Climate Project: Global impact, local insights)	N/A	N/A	PSA	
		13.2 Surface water hazards	2008 EA - TSD 2022 ERA - Appendix A, Appendix C, Section 3.4.5, Appendix E, Table 129 to Table 132, Section 1.9, Human Land Use and Appendix C, Section 3.3.7, Drinking Water, Section 3.4.4, Groundwater, Section 3.4.7, Drinking Water Recent export of water quality, current, and temperature data from Bruce Power's database Existing and future operational conditions for Bruce Power A and B 2023 EPR - Section 6.2.1, Appendix E and Appendix F B-REP-07294-00003, Groundwater Monitoring Program Design Report External Hazard Assessment, External Flooding (Calian, 2024) Internal and External Hazards - Bruce PSA	PSA, LSA	NOAA - lake bathymetry ECCC - offshore temperature data WSC/USGS - flow data for key tributaries Other disciplines (internally) - GIS (e.g., land use) and meterological data Conservation Authority - inland data (possibly)	PSA, LSA	Shoreline Natural Hazard Assessment ADCP data in lake - on going	LSA - for piezometer work LSA/RSA - for ADCP data in lake	
		13.3 Groundwater, geotechnical, geological and seismic hazards	Existing Bruce Power geotechnical, hydrogeological, topographic, soil quality and groundwater quality data Internal and External Hazards - Bruce PSA External Hazard Assessment (Calian, 2024)	Publicly available information of LSA and RSA. Information noted in Column to the right for PSA as well as newly obtained data (drilling and level loggers)	*To be populated*				
		13.4 Biological hazards	Internal and External Hazards - Bruce PSA External Hazard Assessment (Calian, 2024)		*To be populated*				
		13.5 Fire and explosion hazards	Internal and External Hazards - Bruce PSA External Hazard Assessment (Calian, 2024)		*To be populated*				
14	Canada's Ability to Meet its Environmental Obligations								
		14.1 Environmental obligations	n/a						
		14.2 Climate change commitments	Annual sustainability reports (5 reports - one year each from 2021 to 2025 - data from 2020 to 2024) Scope 3 emission inventory for Bruce A and B (includes data from 2019, 2022, 2023, and 2024) Scope 1 emission inventory for Bruce A and B (data from 2024)	Not applicable. GHGs do not have a specific study area (the impacts are global).	National Inventory Report 1990-2023: Greenhouse Gas Sources and Sink in Canada 2006 IPCC Guidelines for National Greenhouse Gas Inventories. Volume 4: Agriculture, Forestry and Other Land Use (Reference data - factors for calculations) ECCC's Draft Technical Guide related to the strategic assessment of climate change: guidance on quantification of net GHG emissions, impact on carbon sinks, mitigation measures, net-zero plan and upstream GHG assessment (Reference data - factors for calculations)	Not applicable. GHGs do not have a specific study area (the impacts are global).	N/A	N/A	
15	Sustainability								
16	Follow-up Program								
		16.1 Follow-up program framework	n/a		n/a		n/a		
		16.2 Follow-up program monitoring	n/a		n/a		n/a		
		16.3 Compliance monitoring	n/a		n/a		n/a		
		16.4 Adaptive management framework	n/a		n/a		n/a		
17	Assessment Summary		n/a				n/a		

APPENDIX C: Preliminary IAAC Work Plan Overview



APPENDIX D: Preliminary List of IAAC/CNSC Technical Meetings

The following is a list of preliminary topics proposed for focused meetings with IAAC/CNSC throughout the Impact Statement phase.

Preliminary Topics	Description
Alternative Means Methodology	Discuss methodology for alternative means assessment
Cumulative Effects Assessment	Review methodology for assessment
Geochemistry and Geological Hazards	Focused meetings to discuss methodology, baseline characterization, and effects assessment
Atmospheric and Acoustic	Focused meetings to discuss methodology, baseline characterization, and effects assessment
Groundwater and Surface Water	Focused meetings to discuss methodology, baseline characterization, and effects assessment
Fish & Fish Habitat	Focused meetings to discuss methodology, baseline characterization, and effects assessment
Terrestrial & Species at Risk	Focused meetings to discuss methodology, baseline characterization, and effects assessment
Health, Social and Economic	Focused meetings to discuss methodology, baseline characterization, and effects assessment
Licence to Prepare Site Application	Focused meetings on Licence to Prepare Site application