

Federal Authority Advice Record (FAAR)**The FAAR must be submitted to the Registry by April 10, 2024.**

Summit Lake PG LNG Project – JX LNG Canada Ltd.

Agency File : 005908

Department/Agency	Natural Resources Canada
Lead contact	Kathy McPherson
Full address	9860 West Saanich Rd, Sidney, BC V8L 4B2
Email	Kathy.mcpherson@nrcan-rncan.gc.ca
Telephone	250-361-7045
Alternate Contact	Rani Al Anid (rani.alanid@nrcan-rncan.gc.ca)

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1. a) Is it probable that your department or agency may be required to exercise a power or perform a duty or function related to the Project to enable it to proceed?

If yes, specify the Act of Parliament and that power, duty or function.

b) Please describe any Indigenous or public consultation that will be undertaken in relation to the exercise of that power, duty or function, including when it would take place.

Based on the information provided to date, NRCan is not likely to be required to exercise a power or perform a duty or function pursuant to the Department's regulatory role under the Explosives Act.

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2. Is your department or agency in possession of specialist or expert information or knowledge in one of your fields of expertise that may be relevant to the conduct of an impact assessment of the Project?

Specify the specialist or expert information or knowledge.

Based primarily on its diverse scientific research programs, NRCan possesses the following expertise that may be relevant to the conduct of an impact assessment for this Project:

- Under the Department of Natural Resources Act, NRCan provides advice and information to the Minister of Energy and Natural Resources, as well as departmental executives, on the development of LNG projects and any corresponding policy issues. This includes policy advice, market analysis and economic analysis to inform impact assessments of LNG projects in the regulatory process and inform the Minister of Energy and Natural Resources on such projects.
- Seismicity: Seismic hazard analysis, codes and standards, mitigation measures.

- Hydrogeology
- Terrain hazards.

NRCan may further revise its areas of expertise related to the Project's impact assessment as more information becomes available during the subsequent phases of the review process.

3. Has your department or agency exercised a power or performed a duty or function under any Act of Parliament in relation to the Project; or taken any course of action that would allow the Project to proceed in whole or in part?

Please specify if applicable.

NRCan has not taken any course of action, or exercised a power or performed a duty or function that would allow the Project to proceed.

4. Has your department or agency had previous contact or involvement with the proponent or other party in relation to the Project (for example: an enquiry about methodology, guidance, or data; introduction to the Project)?

Please provide an overview of the information or advice exchanged.

NRCan has not had previous contact or involvement with the proponent regarding this project.

5. Does your department or agency have additional information or knowledge about the project not specified above, including information about its geographic, environmental, economic or social context (for example, location of protected or sensitive areas, history between local communities and proponent or similar projects, local or regional social or economic concerns)?

Please specify if applicable.

Based on the information available, NRCan does not possess any additional information or knowledge that has not been specified in this document.

6. From the standpoint of your department's mandate and expertise, what are the main issues concerning the project?

For each key issue, please:

- describe the effect or the nature of the issue, including any relevant context;
- provide the rationale and/or evidence for why it is a key issue;
- briefly provide solutions to the issue, including information or studies that, if applicable, should be requested to the proponent in the Tailored Impact Statement Guidelines, potential mitigation measures, or regulatory requirements relevant to the issues;
- provide a concise, plain-language summary of the issue for inclusion in the Summary of Issues.

The information provided will be taken into consideration by the Agency to formulate an opinion on whether an impact assessment is required and, if applicable, will be taken into account in developing project-specific Tailored Impact Statement Guidelines in the next steps of the impact assessment process.

Please use Table 1 to answer this question.

From the perspective of NRCan's mandate, areas of expertise, and the related issues that should be addressed in the impact assessment of the Project are summarized below:

- The overall costs and benefits of the project to the province and Canada as a whole, not just the local study area.
- Seismic hazard assessment is the study of expected earthquake ground motions on the earth. In Canada, the development and evaluation of earthquake hazard models for applications in the National Building Code (NBC) is the responsibility of NRCan's Lands and Mineral Sector (LMS), including the Geological Survey of Canada (GSC). The Proponent should address the issues of seismicity: seismic hazards/NBC standards during the project activities, effects of the environment on the project, and their seismic design provisions for the infrastructure.
- Hydrogeology: Groundwater monitoring will be required to determine groundwater elevations and flow directions. Groundwater flow modelling will be required to assess groundwater elevations, flow directions, fluxes, seepage rates and groundwater-surface water (GW-SW) interactions for baseline conditions and during key project phases (e.g., operation and closure phases).
- For terrain hazards, both naturally occurring events and events that may arise from Project activities should be assessed.

7. If applicable, specify any additional information the proponent could provide in the Detailed Project Description or in its response to the Summary of Issues that:

- would make it possible to verify whether certain minor issues could be addressed and managed by clear measures, existing guidelines, other regulatory processes or other existing tools;
- help the Agency to provide an opinion if an impact assessment is required, or
- would support the tailoring of the Impact Statement Guidelines if the Agency is of the opinion that an impact assessment is required.

These clarifications and additional information will be included as specific questions/issues in the Summary of Issues provided to the proponent.

Please use Table 2 to answer this question.

Name of department or agency involved

Speaker title

Date

Table 1: Key issues to inform the impact assessment process

The Agency asks that federal authorities guide expert advice on the Agency's approach to project specific tailoring, if the Agency is in the opinion that an impact assessment is required. This approach aims to focus the assessment on the Project's key issues, with an emphasis on the prevention of adverse environmental effects in areas of federal jurisdiction. In determining key issues, federal authorities should be mindful of the Project's context (size, scope, location), Indigenous knowledge and perspectives, and public concerns.

Potential effects that are considered minor, or that can be mitigated through clear measures, existing guidance or other regulatory processes, may be subject to simplified information requests or be disregarded. Advice from federal authorities on key issues and solutions - and on the scope and detail of the studies and information requested - will enable the Agency to focus the analysis on those issues that are important for the impact assessment process.

Comment ID	Relevant section of the initial project description	Valued Component or Factor to Consider	Description of key issue (context and rationale)	Advice	Plain-language summary for inclusion in Summary of Issues
<p><i>Please present comments by organization and comment number</i> e.g.: IAAC-01</p>	<p><i>If the comment relates to a specific section of the initial project description, please provide the reference.</i></p>	<p><i>Identify valued component(s) or factor to consider—within the mandate of your department or agency—to which the potential effect or issue applies.</i></p>	<p><i>Please provide a brief description of the issue and rationale for being a key issue.</i></p> <p><i>Include, where relevant:</i></p> <ul style="list-style-type: none"> • <i>the sequence of potential effects;</i> • <i>the relevant context that specifies why this is a key issue;</i> • <i>key uncertainties that should be addressed in the impact assessment;</i> • <i>Indigenous or public concerns or perspective;</i> • <i>scientific data or traditional knowledge, including from previous projects, that justifies the inclusion of the key issue in the project assessment.</i> 	<p><i>If applicable, please provide brief solutions/advice to address the issue or potential effect, including:</i></p> <ul style="list-style-type: none"> • <i>studies or information relevant to describing and characterizing the potential effect, including any guidance for data collection or analysis or existing data sources to inform the assessment;</i> • <i>any powers your department or agency has that may mitigate, manage or set conditions related to the issue;</i> • <i>advice or policies to frame and mitigate the potential effect;</i> • <i>standardized mitigation or monitoring measures that could manage potential effects, including follow-up on monitoring activities;</i> • <i>Commitments the proponent could make to respond to the issue.</i> 	<p><i>For issues to be included in the Summary of Issues, provide a concise, plain language synopsis of the key issue and any questions or directions for the proponent, if applicable.</i></p>

Please insert additional lines if necessary.

Table 2. Details or additional information the proponent could include in the Detailed Project Description or in the response to Summary of Issues

Comment ID	Relevant section of the Initial Project Description	Description of the Issue, Concern or Uncertainty	Clarifications or additional information	Plain-language summary for inclusion in Summary of Issues
<p><i>Please identify comments by organization and comment number.</i></p> <p><i>e.g. AEIC-01</i></p>	<p><i>If the comment is related to a specific section of the Initial Project Description, please provide a reference.</i></p> <p><i>You may also choose to copy the relevant text here.</i></p>	<p><i>Provide a description of the issue, concern or uncertainty that the proponent could include in its Detailed Project Description, which could be framed and managed by clear measures, existing guidelines, regulatory processes or other existing tools, and thus be the subject of a simplified information request in the guidelines, or simply be disregarded.</i></p>	<p><i>Specify what additional information the proponent could provide in the Detailed Project Description to address the issue, concern or uncertainty, for example:</i></p> <ul style="list-style-type: none"> <i>• Clarifications to elements of Project Description (e.g. components, activities, locations or alternatives);</i> <i>• Proposals on Project design changes that could avoid effects;</i> <i>• Evidence that could demonstrate that the effects will be negligible;</i> <i>• Evidence that standard mitigation measures will reduce or eliminate potential effects;</i> <i>• Commitments the proponent could make to respond to the question/issue, including the implementation of federal operational policies or guidance documents.</i> 	<p><i>For issues to be included in the Summary of Issues, provide a concise, plain-language synopsis of the issue and any questions or instructions for the proponent, if applicable.</i></p>
	9.2	<p>It is important to ensure that BC Hydro has adequate capacity to meet the projects electrical requirements with minimal adverse impacts to BC residents.</p> <p>Has BC Hydro been consulted and if so, what were the outcomes, regarding the capacity of BC Hydro to supply adequate hydroelectric power over the lifetime of the project? Has consideration been given by BC Hydro regarding how the onboarding of an electric-driven LNG facility will impact electricity prices for BC residents? Will large-scale additional capital projects be required by BC Hydro to meet new demand?</p>		<p>The capacity of BC Hydro to supply required hydroelectric power to the project and its impact on surrounding communities.</p>
	12.1	<p>It is useful to understand the local community's capacity to support the construction and operation of the project.</p>	<p>Explicitly state from the Census or local or provincial reporting the quantity or proportion of workforce who could theoretically support the project based on their skillset. Ex. "#.##% of the</p>	<p>Additional workforce capacity and skillset information from surrounding area to meet workforce needs for the project</p>

			workforce is employed in the construction occupation”	
	12.3	<p>Clarification on the type and location of employment is useful to assessing the socio-economic benefits from advancing the project.</p> <p>What is the expected breakdown of workforce across various classifications (ex. Construction, transportation, management, etc.)</p> <p>Among the workforce, how much of the workforce is expected to be employed locally, provincially, and nationally?</p>		What are the expected required workforce classifications during construction and operation and where is employment expected to occur?
	12.3	<p>What is the capacity of on-site housing during construction?</p> <p>What is the capacity of on-site housing during operation (if any)?</p> <p>Under what circumstances do you expect staff to rely on on-site housing? Is it available to all employees or just those who reside beyond a certain proximity from the site?</p>		What is the capacity and expected utilization of on-site housing?
	15	What plans will be put in place to mitigate risks in the event that electricity from BC Hydro is interrupted either by a blackout or brownout?		What plans are in place to mitigate risks from power outages?
	12.3	Are figures available to estimate the secondary and tertiary employment impacts from the project?		What secondary or tertiary employment impacts are expected?
	9.2	Have studies been conducted to estimate the impact of the project on surrounding indigenous community employment resulting from the project?		What are the anticipated alignments with indigenous communities for employment?
	2.1	At various points throughout the report, consumers have been identified as international proponents and local/rural communities. Who is the target consumer and have any agreements in principle been reached with consumers regarding LNG offtake?		Who is the target consumer for the LNG?
	10.1.1	Seismicity: should include effects of the environment on the project if applicable and the effects of the project on the environment, information on mapped faults within the local study area or region, assessment of the potential and expected shaking from local and		

		<p>distant earthquake sources. Also consider volcanic hazards. Impacts of the project activities with respect to the effects of the environment on the project e.g., terrain hazards and seismic effects and the effects of the project on the environment and public safety should be included (physical infrastructure).</p> <p>Terrain hazards: this should include naturally occurring events, or events that may arise as a result of project activities. An assessment of the terrain hazards (e.g., landslides) should also be included depending on the sensitivity of the slopes that will be impacted following the project activities.</p>		
	10.1.2	<p>Hydrogeology: Should the proponent be using groundwater as a source, an assessment of groundwater pumping will be required to determine the quantity of freshwater required for cooling, and the details of the freshwater source well. Characterization of the groundwater source quantity including the assessment of well capacity, and hydraulic head drawdown may be required. Proposed well details should also be included.</p>		
	17	<p>From GSC's perspective: Information on Seismic hazard assessment, groundwater withdrawal, landslides/slope stability assessment as it relates to the project activities should be provided at the next phase of the project.</p>		

Please insert additional lines if necessary.