

Appendix

GN-01: CLOSURE, WILDLIFE AND VEGETATION IMPACTS	
Department	Environment
Organization	Government of Nunavut
Subject/Topic	Construction and operation of the new Kugluktuk Diesel Power Plant and Photo Voltaic Solar and Battery Energy Storage System
References	190227-19XN011- NIRB Public Notice of Screening Project application for screening #125442 Standard operating procedures 1-5, 13 Qulliq Energy Corporation Spill Contingency Plan, 2019 Qulliq Energy Corporation PIESA & Limited PIIESA New Power Plant, Kugluktuk, Nunavut OTT-00240858-A0 August 16, 2017. Request for Proposal (RFP), Qulliq Energy Corporation (QEC) Construction of New Diesel Power Plant at Kugluktuk, Nunavut: Chapters 01 and 05
CONCERNS	
<p>Power generation projects could raise public concern related to:</p> <ul style="list-style-type: none"> • Air emission and noise; • Waste water discharge; • Effects on wildlife and wildlife habitat; • Soil erosion and contamination; • Waste and chemicals management; and • Accidents. <p>It appears, however, that due to its small power output (2.6 Mw), the construction and operation of the proposed project is unlikely to cause significant adverse ecosystemic or socio-economic effects after appropriately scoped mitigation plans are in place.</p> <p>The project footprint is approximately 1.7 ha and, since the project is located on the disturbed land it will not likely affect any natural wildlife habitat. This appears to be a project where the potential adverse effects are predictable and can be prevented / managed appropriately with known technology. With regards to the project application, there are some specific mitigation measures that would be appropriate, and some other matters of importance:</p> <ul style="list-style-type: none"> • The application does not provide any details about additional power lines that may be required for construction and operation, or any other associated facilities/activities required for the project; • No details are provided for the closure and site remediation of the existing power plant and fuel tanks that have to be decommissioned. • No mitigation is proposed for wildlife, soils and vegetation. 	

- No information is provided about air and noise emissions.

It is stated in RFP, Chapter 05 that 'current industry accepted best practices shall be employed' for Photo Voltaic (PV) Solar and Battery Energy Storage System (BESS). It is not clear what standards or best practices have been considered for the design of the power plant.

SUGGESTIONS AND RECOMMENDATIONS

1. Develop and implement protection and mitigation measures to ensure that construction and operation has limited adverse effects to:
 - a. Wildlife and wildlife habitat; and
 - b. Soil and vegetation.
2. Provide a description of closure and remediation plans for the existing power plant site.

ADDITIONAL COMMENTS

The following is recommended to improve the project application:

- Provide rationale for selected power output of the proposed power plant and confirm consideration of best practices for the plant design. Describe associated facilities and activities (e.g. upgrade or construction of additional power lines).
- Describe expected emissions and confirm compliance with the applicable environmental standards or industry best practices.

GN-02: Archaeological Resources	
Department	Culture and Heritage
Organization	Government of Nunavut
Subject/Topic	Archaeological Resources
References	NIRB Notice of Screening
CONCERNS	
<p>A search of the Nunavut Archaeological Site Database indicates that there are six (6) archaeological sites near the proposed project location. This however does not preclude the presence of unrecorded sites or cultural features as the area has never been the object of any archaeological assessment.</p> <p>The Department of Culture and Heritage (CH) has no concerns with the proposed development project as the project footprint is located in an area that has been subjected to prior ground disturbance.</p>	
SUGGESTIONS AND RECOMMENDATIONS	
<p>CH recommends that:</p> <ul style="list-style-type: none"> • The proponent confines activities within the proposed project footprint. • The proponent avoids conducting activities in the vicinity (50 m buffer zone) of archaeological/historical sites. If archaeological sites or features are encountered, activities should immediately be interrupted and moved away from this location. Each site encountered needs to be recorded and reported to Territorial Archaeology office. <p>All archaeological and palaeontological sites in Nunavut are protected under the Nunavut Act. The applicant must understand that it is their responsibility to ensure that no heritage resource sites are disturbed in the course of their activities. No person shall alter, or otherwise disturb an archaeological site, or remove any artifact from an archaeological site without the proper authorizations. Moreover, the building of inuksuit is not recommended.</p>	