

Project Dashboard

Gjoa Haven New Power Plant (149571)

Proposal Status: Conformity Determination Issued

Project Overview

Type of application: **New**

Proponent name:	Megan Larose
Company:	Qulliq Energy Corporation

Schedule:

Start Date:	2026-04-01
End Date:	2066-03-31
Operation Type:	Annual

Project Description:

Qulliq Energy Corporation (QEC) is proposing to construct and operate a new power plant in the Hamlet of Gjoa Haven located in the Kitikmeot Region of Nunavut (the Project). This multi-year project will include a new four-engine power generation facility (proposed generating capacity of 3,100 kilowatts) designed for a 40-year life and incorporate new technology to improve reliability, efficiency, operation, and safety. Construction will include a fuel storage system consisting of two 90,000 litre horizontal fuel tanks with secondary containment, appropriate pumping facilities, Quonset garage, transformer storage, pole racks, oil and glycol drum storage and waste disposal area (with secondary containment berm), space for a transient staff accommodation unit, sea cans for storage, and a back-up emergency generator. Upgrades to the existing distribution system will also be required to connect to the new power plant. An approximately 50-metre fuel pipeline will be constructed to connect to the Petroleum Products Division (PPD) bulk fuel storage facility located to the east. The pipeline will be a combination of aboveground and underground construction. The new plant will be capable of integrating renewable energy sources.

Personnel:

Persons:	21
Days:	580

Project Map

List of all project geometries:

ID	Geometry	Location Name
7868	point	FourCorners-GjoaHaven_Option1_Location
7869	polygon	Lot A - Proposed Power Plant

Planning Regions:

Qikiqtani

Affected Areas and Land Types

Municipal

Settlement Area

Project Land Use and Authorizations

Project Land Use

Permanent Structures

Pipeline

Licensing Agencies

NIRB: [Screening Decision Report](#)

CG&S: 0

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TC: 0

NAD: 0

NWB: Type B Licence

Other Licensing Requirements

No data found.

Material Use

Equipment

Type	Quantity	Size	Use
Excavator	1		excavation as needed on-site
Backhoe	1		excavation as needed on-site, material collection
Bulldozer	1		material excavation and movement on-site
Grader	1		civil construction, level soil/gravel as needed
compactor machine	1		site compaction as required
articulated truck (dump truck)	1		transport of material to and from site
tower crane	1		lifting materials to height
Bored pile drilling equipment	1		pile construction
Boom Truck	1		lifting construction materials to height
Telehandler	1		carrying/transporting heavy loads
Fork lift	1		carrying/transporting materials
trailer	1		transporting materials to and from site
Concrete mixer	1		mix and pour concrete
Welding Machine	2		welding
Generator	4		Four generators will be installed in the power plant with a

generating capacity of
3,100 kilowatts

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Diesel	1	0	Liters	<p>Fuel will be required during construction for all equipment used on site. Fuel storage and handling during construction will be the responsibility of the contractor. Details regarding the location and volume of fuel storage and location of equipment refueling during construction are not known at this time. The contractor will be required to have a fuel management plan.</p> <p>Fuel will be used/stored at the power plant to run the generators. Fuel will be stored in</p>
Diesel	2	90000	Liters	<p>Fuel will be used/stored at the power plant to run the generators. Fuel will be stored in</p>

above-ground horizontal fuel storage tanks.

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
solvent	4	205	Liters	generator maintenance and operation
engine oil	16	205	Liters	generator maintenance and operation
propylene glycol	1	2000	Liters	power plant operations, heat transfer

Water Consumption

Daily Amount (m ³)	Retrieval Method	Retrieval Location
0	to be determined by the contractor	to be determined by the contractor

Waste and Impacts

Environmental Impacts

Please refer to Table 4 of the attached Gjoa Haven New Power Plant Project Description.

Waste Management

Waste Type	Quantity Generated	Treatment Method	Disposal Method
Combustible wastes	unknown	none	Disposal of construction waste will be the responsibility of the contractor. If permitted by the Hamlet, some waste may be disposed of at the local landfill.

Combustible wastes	unknown	none	<p>During operations, QEC will dispose of domestic waste in the local landfill if permitted by the Hamlet. Waste that is not permitted in the local landfill will be shipped south as part of QECs annual waste shipment. Amount of liquid waste during operation will vary annually.</p>
Hazardous waste	2460 litres	none	<p>Waste fuel/glycol will be collected in drums, stored within secondary containment and shipped south for disposal. Amount of non-combustible waste generated during operation will vary annually.</p>
Non-Combustible wastes	200 litres	none	<p>Material will be stored in quatrex bags or other appropriate</p>

Overburden (organic soil, waste material, tailings)	unknown	none	<p>containment and shipped south for disposal.</p> <p>Disposal of overburden and soil/rock excavated for power plant to be determined by the contractor in communication with the Hamlet.</p> <p>Volume to be determined. If possible, some overburden material may be used to build up other areas within the plant site.</p>
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