



OIL AND GAS RESOURCES
**GAS PROCESSING PLANT AND
LNG FACILITY LICENCE APPLICATION**

Oil and Gas Resources

Department of Energy, Mines and Resources, Government of Yukon
Suite 400, 211 Main Street, Whitehorse, Yukon Y1A 2B2
Email: oilandgas@gov.yk.ca

Purpose of application

Indicate the reason for the application by clicking on the appropriate box. If the application is for a licence amendment, indicate the number of the licence to be amended.

- | | |
|--|--|
| <input type="checkbox"/> New gas processing plant licence | <input type="checkbox"/> New liquefied natural gas (LNG) facility licence |
| <input type="checkbox"/> Amendment to a gas processing plant licence Enter licence number to be amended: _____ | <input type="checkbox"/> Amendment to a liquefied natural gas facility licence Enter licence number to be amended: _____ |

Full legal name of applicant

Indicate the registered corporate name of the company.

Official service address of applicant

The Government of Yukon may need to deliver a notice or directive to a licensee via an official service address. The Government of Yukon may need to deliver a notice or directive to a licensee via an official service address under section 9 of the *Oil and Gas Licence Administration Regulations*. If a person does not have an official service address registered with the Government of Yukon under section 14 of the *Oil and Gas Disposition Regulation*, the completion of this section will register an address for the licensee if the licence is issued.

Mailing address

| | | | |
|--|--------------------------|-------------|-------------------------|
| City | Province/Territory/State | Postal code | Country |
| Name of contact person at the official service address | | | Title of contact person |
| Email | | | Fax |
| Cell | Office phone | | |

Indicate the legal name of the authorized authority if different from the applicant

Name of agent

If an agent acts for the applicant, indicate the registered corporate name of the agent and contact information.

Indicate the legal name of the agent if different from the applicant

Indicate the name of a person to contact with questions about the application

| | |
|------------------------|-------------------------|
| Name of contact person | Title of contact person |
| Cell | Email |

Signature

The applicant or an authorized agent of the applicant must sign the form.

Name of signatory

Capacity

The applicant certifies that the information submitted is correct and the gas processing plant or liquefied natural gas facility will be constructed, operated, amended and abandoned in accordance with regulatory requirements or as directed by the Chief Operations Officer.

Signature

Date

CHECKLIST

Required documents supporting a licence application

Section 11 of the *Gas Processing Plant Regulation* indicates items required to support this application. Check that following that are included in this application.

- Map showing the proposed location of the site for the plant or facility.
 - Geo-referenced file with associated metadata.
- Consultation report
- Management system that meets that meets the requirements of section 12 of the *Gas Processing Plant Regulation*.

Checklist:

- Policies on which the system is based.
 - Processes for setting goals.
 - Processes for identifying hazards and managing risks.
 - Processes for ensuring personnel are trained and competent.
 - Processes for ensuring integrity of facilities and equipment.
 - Processes for reporting hazards/incidents and corrective action.
 - Documentation for describing management system processes and making personnel aware of their roles.
 - Processes for upkeep of documentation.
 - Processes for reviews and audits and corrective actions.
 - Coordination of management and operations of proposed activity.
 - Names of persons accountable and responsible.
- Safety program that meets the requirements of section 13 of the *Gas Processing Plant Regulation*.

Checklist:

- Summary of and references to the management system.
 - Summary of studies to identify hazards and safety.
 - Description of identified hazards and risk evaluation.
 - Summary of measures to manage safety risks.
 - Summary of measures to inform personnel of safety procedures.
 - Emergency response procedures.
 - Provisions for liaison and coordination of emergency response.
 - List of structures/equipment/systems and summary for inspection.
 - Organizational structure and contact information.
 - Monitoring of compliance and performance measurement.
- Environmental protection program that meets the requirements of section 14 of the *Gas Processing Plant Regulation*.

Checklist:

- Summary of and references to the management system.
- Summary of studies to identify environmental hazards and risks.
- Description of hazards and results of risk evaluation.

- Summary of measures to avoid, prevent, reduce and manage risks.
- List of structures/equipment/systems and summary of systems.
- Emergency response procedures.
- Provisions respecting liaison to coordinate emergency response.
- Organizational structure and contact information.
- Procedures regarding use of chemical substances.
- Procedures and equipment for handling of waste material.
- Description and limits for discharge into the natural environment.
- Monitoring and compliance of discharge limits.
- Monitoring of program compliance and performance measurement.
- Non-destructive examination program of welded joints that meets the requirements of section 15 of the *Gas Processing Plant Regulation*.

Checklist:

- Requirement for examination of entire weld volume.
- Approval from the chief operations officer for modified program to allow for examination of fewer than all piping welds.
- Quality control and quality assurance program.
- Abandonment and reclamation plan.
- Identification of construction contractor.
- Description of processing facilities and control system.
- Information respecting proposed flaring and venting.
 - Stack height and diameter.
 - Predicted normal and maximum emissions of sulphur dioxide.
 - Rate and calculated volume of potential hydrogen sulphide releases.
 - Results of gas/vapour dispersion modelling for lit and unlit conditions.
 - Maximum expected rates for continuous flaring, and volumes/compositions of flared streams.
 - Maximum stream velocity in metres per second at the flare metering point.
 - Description of flare metering configuration proposed to measure purge gas and the blow down situation.
 - Description of how plant processing will conserve gas volumes by avoiding tie-in to the flare or incinerator stack.
 - Description of how plant emergency shutdown procedures will limit emissions.
 - Description of the flame-out detection system configuration for the flare stack/incinerator equipment, and if it is set up to alarm or shutdown process.
 - Appropriate isopleths for the various levels of hydrogen sulphide and sulphur dioxide.
 - Design to prevent flash-back of flame-back into process (i.e., positive pressure system, flame arrestor).

Additional maps and diagrams

- Plot plan drawing.
- Complete plant
 - Fuel gas lines (plant and/or field).
 - Pilot gas and dilution gas streams to plant flare stacks. Include tie in points in the plant.
 - All plant piping that can impact the production accounting model.
 - Fluid injection streams.
 - All delivery streams.
 - Flare stacks and incinerator stacks.
- Process flow diagrams of the plant or facility.
- All other existing plants and sulphur handling facilities at the site or in the area within 50 km.
- All lakes, streams, and other surface bodies of water within 10 km.
- All settlements within 20 km.
- General land use forested, farming, other within 10 km.
- Metering block diagram detailing:
 - All meters in the plant (production accounting and non-production accounting).

- Meter types (orifice, turbine, ultrasonic).
- All production accounting meters in the plan.
- If this is an application for a liquefied natural gas facility, include references to Canadian Standards Association (CSA Z276-11, Liquefied natural gas (LNG) – Production, storage, and handling).
- Fugitive emissions management plan for the proposed plant.
- Air monitoring plan.
- Storage tank secondary containment plans.
- Noise impact assessment.
- Benefits agreement in place.
- Proof of financial assurance.
- Request for a direction from the chief operating officer.
- Application to have a pipeline designated as part of the plant or facility.

Eligibility to hold a licence

Include a copy of verification

Pursuant to the *Oil and Gas Licence Administration Regulations* Part 1, section 4, the applicant is:

- Incorporated, continued or registered under the *Business Corporations Act*; or
- Incorporated or continued under the *Bank Act (Canada)*; or
- Licensed under the *Insurance Act*; or
- Approved by the Minister as a corporation that may hold a licence.

Sulphur processing

If the proposal includes a sulphur processing facility, include a written submission that describes:

- The proposed control measures to limit the release of sulphur dust and entrained gases.
- The proposed method to degasify produced liquid sulphur and to dispose of sulphur compounds and other vapours associated with such processes.
- How sulphur volumes will be measured and reported.

For field gathering systems

Gathering block diagram detailing:

- Type of primary well production (oil or gas).
- Well site locations, indicated by the legal surface location.
- Well site configuration.
- All field meters and types.
- Types of measuring devices used to determine levels or volumes in tanks or production vessels for production accounting purposes.
- All field fuel gas streams and meters. If no meter is installed, indicate how volume is determined for reporting purposes for a given stream.
- Field flare streams. If no meter is installed, indicate how volume is determined for reporting purposes for a given stream.
- All field process equipment. e.g., compressors, separators, tanks, etc.
- Gathering system offload streams that permit volumes to deliver to processing different from the plant applied for.
- Gathering system on load streams that permit volumes to be received from other reporting facilities, gas plants or gathering systems.
- Return fuel gas streams from a plant, facility or other processing equipment.
- Gathering system block valves and piping that may impact the production accounting model.
- All piping streams block valves. Indicate normal operational state (normally open or normally closed) that can cause a change in fluid flow that will impact the production accounting model.
- A composite analysis of the inlet gas under normal operating conditions and the maximum hydrogen sulfide content of the raw inlet gas in moles per kilomole.