

OGAA Amendment Permit Template v 1.6

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June 6, 2022

FortisBC Energy Inc. 16705 Fraser Highway Surrey, BC V4N 0E8

Attention: FortisBC Energy Inc.

## RE: Amendment to Application Determination Number 100008469

Permit Holder: FortisBC Energy Inc.

Amendment Date of Issuance: June 6, 2022
Amendment Effective Date: June 6, 2022
Application Submission Date: September 3, 2020
Amendment Application Number: 100110410
Approved Disturbance Footprint: 10.972 ha

## **AMENDMENT DETAILS**

Pipeline Project No.: 000003655	Twinning of the existing NPS 12 system
Seg No.: 1, 2, 3, 4	
Associated Oil & Gas Activity No.: 00207066 to 00207074	
Type: Workspace	
Changes In and About a Stream: 0006302	

# **GENERAL PERMISSIONS, AUTHORIZATIONS AND CONDITIONS**

# **PERMISSIONS**

## Oil and Gas Activities Act

- 1. The BC Oil and Gas Commission (the "Commission"), under section 31(7) of the Oil and Gas Activities Act, hereby grants an amendment to the permit issued for the above referenced Application Determination Number, any associated authorizations subject to the original permit, any subsequent amendments and any additional or revised conditions as set out herein, as per the Amendment Details table above and, if required, as detailed in the Technical Specification Details and/or Activity Details table(s) below.
- 2. The permissions and authorizations granted under this amendment are limited to the area identified in the spatial data submitted to the Commission in the amendment application as identified and dated above; herein after referred to as the 'activity area'.
- 3. Notwithstanding the above permissions and authorizations, this permit does not authorize the following Associated Oil and Gas Activity(s):

Workspace - 00207075, 00207076

#### **Petroleum and Natural Gas Act**

4. Pursuant to section 138(1) of the *Petroleum and Natural Gas Act*, the permit holder is permitted to enter, occupy and use any unoccupied Crown land located within the activity area to carry out the oil and gas activities and related activities permitted, or authorized herein.

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 The permission to occupy and use Crown land does not entitle the permit holder to exclusive possession of the area.

b. The total disturbance within the activity area must not exceed the total approved disturbance footprint as referenced above.

#### **AUTHORIZATIONS**

#### **Forest Act**

5. The Commission, pursuant to section 47.4 of the *Forest Act*, hereby authorizes the removal of Crown timber from the activity area under the cutting permits associated with the Master Licence(s) as follows:

Master Licence to Cut No.: M02442

Cutting Permit No.: 2 Timber Mark No.: MTD187 Total New Cut: 7.92

Forest District: (DCK) Chilliwack Natural Resource District

Region: Coastal

The cutting permits are deemed spent upon the submission of the post-construction plan or upon either the cancellation or expiry of the activities authorized under the permit.

### **CONDITIONS**

#### **Notification**

- 6. Within 60 days of the completion of construction activities under this permit, the permit holder must submit to the Commission a post-construction plan as a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shapefile and plan must be submitted via eSubmission.
- A notice of maintenance activities must be submitted, as per the relevant Commission process at the time
  of submission, at least two (2) working days prior to the commencement of any changes in or about a
  stream associated with maintenance activities.
- 8. At least ten (10) working days prior to the commencement of any changes in or about a stream associated with maintenance activities, the permit holder must provide a notice of works to any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur.
- 9. The Permit Holder must notify the First Nation(s) copied on this permit/authorization at least 5 (five) working days prior to project commencement.

### General

- 10. The rights granted by this permit in relation to unoccupied Crown land are subject to all subsisting grants to or rights of any person made or acquired under the Coal Act, Forest Act, Land Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Water Sustainability Act or Wildlife Act, or any extension or renewal of the same.
- 11. The permit holder must not assign, sublicense or permit any person other than its employees, contractors or representatives, to use or occupy any Crown land within the activity area without the Commission's written consent.
- 12. The permit holder must ensure that any Crown land within the activity area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
- 13. The permit holder must ensure that any Crown land within the activity area is maintained free of garbage, debris and derelict equipment.

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#### **Environmental**

14. Construction activities must not result in rutting, compaction or erosion of soils that cannot be reasonably rehabilitated to similar levels of soil productivity that existed on the activity area prior to the construction activities taking place.

15. Any temporary access must be constructed and maintained in a manner that provides for proper surface drainage, prevents pooling on the surface, and maintains slope integrity.

#### **Clearing/Forest Act**

- 16. The permit holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the activity area that are considered to be a safety hazard according to Workers Compensation Act regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the activity area without causing damage to standing timber may be harvested.
- 17. The holder of the cutting permit must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.
- 18. The authorized cutting permit does not grant the permit holder the exclusive right to harvest Crown timber from the activity area. Authority to harvest some or all of the timber may be granted to other persons. The permit holder's right to harvest timber applies to any timber found on the site at the time they undertake harvesting activities.
- 19. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark.
- 20. Any waste assessments applied under the Master Licence to Cut are subject to the merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Manual specific to the region associated with the Cutting Permit authorization.
- 21. Stumpage will be calculated in accordance with the Coast Appraisal Manual (volume based).

### Water Course Crossings and Works

- 22. Stream, lake and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.
- 23. Construction or maintenance activities within a fish bearing stream or wetland must occur:
  - a. during the applicable reduced risk work windows as specified in the Lower Mainland Reduced Risk Work Windows;
  - b. in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the Commission; or
  - c. in accordance with an authorization or letter of advice from Fisheries and Oceans Canada that is provided to the Commission;

If activities are to occur in accordance with b or c above, the documentation must be submitted to the Commission prior to commencement of activities.

- 24. At any time, the Commission may suspend instream works authorized under this permit. Suspensions on instream works will remain in place until such time as the Commission notifies permit holders that works may resume. Reasons for suspension of works may include, but are not limited to, drought conditions and increased environmental or public safety risks.
- 25. Equipment used for activities under this Permit must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity.
- 26. The permit holder must ensure any instream works related to maintenance are planned and overseen by a qualified professional. This individual must assess and determine whether planned works pose a risk to any of the features listed below, and is responsible for developing and implementing mitigation measures to reduce any potential impacts on these features, as required:

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- fish or important fisheries habitat;
- species identified as special concern, threatened, or endangered under the federal Species at Risk Act; or
- c. species identified by Order as a species at risk under the Forest and Range Practices Act or the Oil and Gas Activities Act.

This assessment must be provided to the Commission upon request.

- 27. Following initial construction, stream, lake and wetlands crossings are authorized for necessary pipeline maintenance activities on the activity area except for:
  - a. works within the boundary of a provincial park;
  - stream bank or stream bed revetment works in a stream classified as S1, S2, S3, S4 or S5;
  - c. pipe replacement within the stream channel where the original application specified a trenchless crossing method and the planned works involve a trenched crossing method;
  - permanent alteration of a stream bank;
  - works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
  - works within a Fisheries Sensitive Watershed established by order under s. 28 of the Environmental Protection and Management Regulation.
- 28. Open cut crossings and works within streams, lakes or wetlands must be planned and conducted in accordance with the following requirements:
  - a. an open cut of a stream classified as S1, S2, S3 or S4 must not occur, unless the stream is frozen to its bed or is completely dry with no evidence of subsurface flow;
  - b. unless otherwise authorized by Fisheries and Oceans Canada, spawning gravels must not be disturbed when redds that contain eggs or alevins are present. The authorization must be provided to the Commission; and
  - c. channels, banks and beds of streams, including any disturbed stable natural material must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated.
- 29. Flow isolation crossings and works must be planned and conducted in accordance with the condition above regarding open cut crossings, and the following additional requirements:
  - a. construction of the crossing or works, including the location and operation of any equipment, must be isolated from water flowing in the stream;
  - b. water from flumes, pump-arounds, diversions, or other methods must be released to downstream areas in an manner that avoids erosion or sediment release;
  - pump intakes must not disturb beds of fish bearing streams, except as necessary to ensure safe installation and operation of equipment, and must be screened with maximum mesh sizes and approach velocities in accordance with the Fisheries and Oceans Canada Freshwater Intake Endof-Pipe Fish Screen Guideline; and
  - d. water flows downstream of in-stream construction sites must be maintained at volume and discharge consistent with upstream flows.
- 30. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:

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a. To facilitate construction of a crossing, a machine is permitted to ford the stream a maximum of one time in each direction at the crossing location.

- b. Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings;
- c. The permit holder must ensure that permanent bridges are designed and fabricated in compliance with:
  - i. the Canadian Standards Association Canadian Bridge Design Code, CAN/CSA-S6; and
  - soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
- d. Except with leave of the Commission, the permit holder must ensure that
  - i. culverts are designed and fabricated in compliance with the applicable:
    - a. Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
    - Canadian Standards Association Standard CSA B1800, Section B182.8, Plastic Non-pressure Pipe Compendium; or
  - ii. any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
- e. Except with leave of the Commission, the permit holder must ensure that bridges or culverts meet the criteria set out in i., ii. or iii. below:
  - i. the bridge or culvert is designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in Column 2 of the table below for the period the permit holder anticipates the structure will remain on site, as set out in Column 1 of the table below:

Anticipated period crossing structure will remain on site	Peak flow period
Bridge or culvert, 3 years or less	10 years
Bridge other than a bridge within a community watershed, more than 3 years but less than 15	50 years
Bridge within a community watershed, more than 3 years	100 years
Bridge, 15 years or more	100 years
Culvert, more than 3 years	100 years

- ii. the bridge, or any component of the bridge:
  - is designed to pass expected flows during the period the bridge is anticipated to remain on the site;
  - b. is constructed, installed and used only in a period of low flow; and
  - is removed before any period of high flow begins.
- iii. the culvert;
  - a. is a temporary installation, and the permit holder does not expect to subsequently install a replacement culvert at that location;
  - b. is not installed in a stream, when the stream contains fish;
  - is sufficient to pass flows that occur during the period the culvert remains on the site;
  - d. is installed during a period of low flow; and

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- e. is removed before any period of high flow begins.
- f. Bridge or culvert abutments, footings and associated scour protection must be located outside the natural stream channel and must not constrict the channel width.

#### Archaeology

- 31. If an artifact, feature, material or thing protected under the *Heritage Conservation Act* is identified within the activity area, the permit holder must, unless the permit holder holds a permit under Section 12.4 of the *Heritage Conservation Act* issued by the BC Oil and Gas Commission in respect of that artifact, feature, material or thing:
  - a. Immediately cease all work in the vicinity of the artifacts, features, materials or things;
  - b. Immediately notify the BC Oil and Gas Commission; and
  - Resume work in the vicinity of the artifacts, features, materials or things in accordance with direction from the BC Oil and Gas Commission.
- 32. Prior to the commencement of construction activities the permit holder must:
  - a. Complete an archaeological assessment of the activity area in accordance with applicable requirements of the *Heritage Conservation Act*, and
  - Complete and submit to the BC Oil and Gas Commission an acceptable report on the results of the assessment.
- 33. If the report required under the condition above recommends any further assessment work on an area, the permit holder must not begin construction activities on that area until the further assessment is completed.

# <u>ACTIVITY SPECIFIC DETAILS, PERMISSIONS AND CONDITIONS</u>

## **PIPELINES**

Land Area Number: 100014564 Pipeline Project Number: 1, 2, 3, 4

#### **TECHNICAL SPECIFICATION DETAILS**

Seg No.: 1	From: C-075-C/092-G-07	<b>To</b> : A-085-C/092-G-07
Flow Direction: Bi-Directional	Maximum Operating Pressure (kpa): 14890	
Product: Natural Gas - Sweet	N	<b>lax H₂S (mol%):</b> 0
Installation Number(s): 1, 2		
<b>Seg No.</b> : 2	From: A-085-C/092-G-07	<b>To</b> : D-084-C/092-G-07
Flow Direction: Bi-Directional	N	laximum Operating Pressure (kpa): 14890
Product: Natural Gas - Sweet	N	<b>lax H₂S (mol%):</b> 0
<b>Seg No.:</b> 3	From: D-084-C/092-G-07	<b>To</b> : B-026-C/092-G-10
Flow Direction: Bi-Directional	N	laximum Operating Pressure (kpa): 14890
Product: Natural Gas - Sweet	N	lax H₂S (mol%): 0
Installation Number(s): 1, 2, 3, 4		
Seg No.: 4	From: C-075-C/092-G-07	<b>To</b> : B-003-F/092-G-07
Flow Direction: Bi-Directional	N	laximum Operating Pressure (kpa): 14890
Product: Natural Gas - Sweet	N	lax H₂S (mol%): 0
Installation Number(s): 1, 2		

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#### **Technical Pipeline Permissions**

34. Piping & Instrumentation Diagram(s) submitted by FortisBC Energy Inc.: 62036-X100-1000-RO-C Revision OC, dated June 10, 2020,

Changes may be made to pigging design, and to above ground valves and piping, provided that:

- a. the changes do not affect direct connections to pipelines and facilities;
- b. there are no changes to approved pressure protection, H2S protection or isolation;
- c. there is no substantive impact to any aspect of the project that was included in the consultation; and
- d. the design and operation of the pipeline continues to meet all regulatory requirements and the requirements of CSA Z662.

# **ADVISORY GUIDANCE**

- Construction Plan 20200005SK1\_0\_WPSigned.pdf is for the permit holder's internal reference only and was not reviewed as a decision tool for this permit, nor does it form an integral part of this permit.
- 2. The permit holder should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as areas of current use or cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities while carrying out the activities authorized herein.
- Appropriate tenure may be issued upon acceptance of the post-construction plan. Submission of the original application and submission of the post-construction plan is considered an application for all subsequent applicable Land Act tenures. Upon the Commission's acceptance of the postconstruction plan no further applications for replacement tenure are required.

All pages included in this permit and any attached documents form an integral part of this permit.

Justin Anderson Authorized Signatory

Commission Delegated Decision Maker

Copied to:

First Nations – Kwikwetlem First Nation, Musqueam Indian Band, Squamish Nation, Tsleil-Waututh Nation, People Of The River Referrals Office (PRRO), Seabird Island First Nation, Shxw'owhamel First Nation Landowners/Rights Holders

Ministry of Forests District Office – (DCK) Chilliwack Natural Resource District Work Safe BC

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