

March 18, 2022

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

Attention: FortisBC Energy Inc.

RE: Amendment to Application Determination Number 100008382

Permit Holder: FortisBC Energy Inc.
Amendment Date of Issuance: March 18, 2022
Amendment Effective Date: March 18, 2022
Application Submission Date: September 1, 2021
Amendment Application Number: 100111198

AMENDMENT DETAILS

Pipeline Project No.: 000003770	To relocate 250 meters of the NPS 10 line and to add 440 meter of lateral pipeline.
Seg No.: 3, 6, 7, 8, 9	
Changes In and About a Stream: 0005927	

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'.

CONDITIONS

Notification

3. 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.
4. 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.

5. 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.
6. The Permit Holder must notify the First Nation(s) copied on this permit/authorization at least 5 (five) working days prior to project commencement.

Environmental

7. 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.
8. 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

9. 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.

Water Course Crossings and Works

11. Stream, lake and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.
12. 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.

13. 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.
14. 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.
15. 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:
 - a. fish or important fisheries habitat;
 - b. 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.

16. 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;
 - b. 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;
 - d. permanent alteration of a stream bank;
 - e. works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
 - f. works within a Fisheries Sensitive Watershed established by order under s. 28 of the Environmental Protection and Management Regulation.
17. 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.
18. 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 a manner that avoids erosion or sediment release;
 - c. 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 'Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater'; and
 - d. water flows downstream of in-stream construction sites must be maintained at volume and discharge consistent with upstream flows.

Archaeology

19. 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

- c. Resume work in the vicinity of the artifacts, features, materials or things in accordance with direction from the BC Oil and Gas Commission.

ACTIVITY SPECIFIC DETAILS, PERMISSIONS AND CONDITIONS

PIPELINES

Land Area Number: 100014573
Pipeline Project Number: 000003770

TECHNICAL SPECIFICATION DETAILS

Seg No.: 3	From: B-063-J/092-G-11 To: D-001-K/092-G-11
Flow Direction: Bi-Directional Product: Natural Gas - Sweet Installation Number(s): 1, 2, 3, 4, 5, 6, 7	Maximum Operating Pressure (kpa): 14890 Max H₂S (mol%): 0
Seg No.: 6	From: D-001-K/092-G-11 To: D-001-K/092-G-11
Flow Direction: Bi-Directional Product: Natural Gas - Sweet Installation Number(s): 1, 2, 3, 4, 5	Maximum Operating Pressure (kpa): 14890 Max H₂S (mol%): 0
Seg No.: 7	From: B-010-J/092-G-11 To: D-001-K/092-G-11
Flow Direction: Bi-Directional Product: Natural Gas - Sweet Installation Number(s): 1, 2, 3, 4	Maximum Operating Pressure (kpa): 14890 Max H₂S (mol%): 0
Seg No.: 8	From: D-001-K/092-G-11 To: D-001-K/092-G-11
Flow Direction: Bi-Directional Product: Natural Gas - Sweet	Maximum Operating Pressure (kpa): 14890 Max H₂S (mol%): 0
Seg No.: 9	From: D-001-K/092-G-11 To: D-070-J/092-G-05
Flow Direction: Bi-Directional Product: Natural Gas - Sweet Installation Number(s): 1, 2, 3, 4, 5, 6	Maximum Operating Pressure (kpa): 14890 Max H₂S (mol%): 0

Technical Pipeline Permissions

20. Piping & Instrumentation Diagram(s) submitted by FortisBC Energy Inc.:
- 62004-X-110-1000-RO-F Revision RO-F, dated September 1, 2020,
 - 62034-X-200-1000-RO-E Revision RO-E, dated June 22, 2020,
 - 61001-X-200-1000-RO-D Revision RO-D, dated June 22, 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

1. Construction Plan - 20200007SK1_0 - Fully Executed.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.

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 – Musqueam Indian Band, Squamish Nation
Landowners/Rights Holders
Work Safe BC