

June 22, 2023

LNG Canada Development Inc. 400 - 4th Avenue SW Calgary, AB T2P 0J4

Attention: LNG Canada Development Inc.

#### RE: Amendment to Application Determination Number 100104894

Permit holder: LNG Canada Development Inc. Amendment Date of Issuance: June 22, 2023 Amendment Effective Date: June 22, 2023 Application Submission Date: May 28, 2023 Amedment Application Number: 100117995 Approved Disturbance Footprint: 0 ha

# **Amendment Details**

Changes In and About a Stream: 0004352	Add additional Stream Impact locations to Water Sustainability Act	
	Section 11 approval issued April 11, 2018 (AD#1000104894)	

# **General Permissions, Authorizations and Conditions**

### **Authorizations**

## Water Sustainability Act

1. The BC Energy Regulator, under section 26(1) of the *Water Sustainability Act*, hereby grants an amendment to the above referenced permit, as detailed in the Amendment Details table below, subject to the original permit, any subsequent amendments and any additional or revised conditions as set out herein.

#### **Conditions**

#### **Notification**

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

### **Clearing/Forest Act**

3. 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.

Permit Holder: LNG Canada Development Inc.

Application Submission Date: May 28, 2023

Application Determination Number: 100104894

Date Issued: June 22, 2023

### **Water Course Crossings and Works**

- 4. Stream, lake, and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.
- 5. 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 Skeena Region Reduced Risk Window;
  - b. in accordance with alternative timing and associated mitigation recommended in a plan prepared by a qualified professional and accepted by the BC Energy Regulator; or
  - c. in accordance with an authorization or letter of advice from Fisheries and Oceans Canada that is provided to the BC Energy Regulator;

If activities are to occur in accordance with b or c above, the documentation must be submitted to the BC Energy Regulator at postpermitrequests@bc-er.ca prior to commencement of activities.

- 6. At any time, the BC Energy Regulator may suspend instream works authorized under this permit. Suspensions on instream works will remain in place until such time as the BC Energy Regulator 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.
- 7. 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.

# **Advisory Guidance**

 Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the Oil and Gas Activities Act.

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

anten oanond

Andrew Osmond Authorized Signatory BC Energy Regulator Delegated Decision Maker

Copied to:

First Nations - Haisla Nation Council



Stand Alone Cutting Permit v 1.1

February 15, 2019

LNG Canada Development Inc. 400 - 4th Avenue SW Calgary, AB T2P0J4

Attention: LNG Canada Development Inc.

**RE:** Cutting Permit

Permit Holder: LNG Canada Development Inc.

**Date of Issuance:** February 15, 2019 **Effective Date:** February 15, 2019

Application Submitted Date: February 8, 2019
Activity Type: Related Oil and Gas Activity
Application Determination Number: 100104894
Application Amendment Number: 100107536

# **AUTHORIZATIONS and CONDITIONS**

#### **AUTHORIZATIONS**

#### Forest Act

1. 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.: M02415

Cutting Permit No.: 3
Timber Mark No.: MTC813

Total New Cut: 10.85

Forest District: (DKM) Coast Mountains Natural Resource District

Region: Coastal

2. 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:**

3. A notice of construction start must be submitted prior to the commencement of activities under this permit 48 hours before or as per the relevant legislation if longer than 48 hours. Notification must submitted via Kermit for pipelines and facilities. For all other activity types notification must be submitted through OGC.ExternalNotifications@bcogc.ca.

Permit Holder: LNG Canada Development Inc. Application Submission Date: February 8, 2019

Application Determination number: 100104894 Date Issued: February 15, 2019

4. Upon completion of activities, the Permit Holder must submit the total amount of cut taken under this cutting permit, including reference to the cutting permit number, the MLTC, and the associated application determination number, via an OGC Service Desk submission.

#### Clearing:

- 5. 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.
- 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.
- 7. 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.
- 8. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark.
- 9. Stumpage for cutting Permits falling within the Coast Area, as defined in the Coast Appraisal Manual (Manual) will be calculated in accordance with the Manual (volume based).
- 10. 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.

# **ADVISORY GUIDANCE**

1. Unless a condition or its context suggests otherwise, terms used in this authorization have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.

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

Jacqueline Bourke
Authorized Signatory

Commission Delegated Decision Maker

Ministry of Forests District Office: (DKM) Coast Mountains Natural Resource District



Correction v 1.0

May 4th, 2018

LNG Canada Development Inc. 400-4<sup>th</sup> Street SW Calgary, Alberta T2P 0J4

Attention: LNG Canada Development Ltd.

Re: Correction of Application Determination Number 100104894

Permit Holder: LNG Canada Development Inc. Date of Permit Issuance: April 11, 2018 Date of Correction: May 4, 2018

**Application Determination Number: 100104894** 

The BC Oil and Gas Commission hereby corrects the subset of conditions and advisory guidance in the permit identified and dated above as follows:

#### **Water Course Crossings and Works**

- 7. Works within streams, lakes and wetlands must be constructed in accordance with the methods and any mitigations, as specified in the application.
- 8. In-stream activities within a fish bearing stream, lake or wetland must occur:
  - a) during the applicable reduced risk work windows as specified in the Region 6 Skeena Reduced Risk In-stream Work Windows and Measures; or
  - 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.
- 9. 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 the Permit Holder that works may resume.
- 10. The permit holder must ensure that, to the extent practicable:
  - a) riparian management areas, determined in accordance with 11 below, are developed and maintained on each side of compensatory streams; and
  - b) infrastructure and operating areas associated with the facility, except those intended to facilitate the crossing of a stream, are not located within the riparian management areas.
- 11. For the purposes of 10 above, classification of compensatory streams, as identified by Fisheries and Oceans Canada and minimum riparian management areas must be determined in accordance with the criteria set out in Part 4, Division 1 of the Environmental Protection and Management Regulation.
- 12. The permit holder must submit, to the satisfaction of the Commission, a site restoration report via email to postpermitrequests@bcogc.ca at the end of a 2 year monitoring period.

Application Submission Date: February 7<sup>th</sup>, 2018

Date Issued: May 4th, 2018

Permit Holder: LNG Canada Development Inc.

Application Determination number: 100104894

13. The permit holder must design and install adequate berms and barriers such that deleterious substances are prevented from entering streams.

- 14. A qualified professional must be on site during all land clearing and infilling of stream operations. This individual must have the authority to stop or modify all construction operations as necessary to minimize impact to adjacent areas of aquatic habitat that are not subject to clearing and infilling.
- 15. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
  - a) Only bridges or culverts may be constructed at stream crossings;
  - b) 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
    - ii. soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
  - Except with leave of the Commission, the Permit Holder must ensure that:
    - i. any culverts used are designed and fabricated in compliance with the applicable:
      - (A) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
      - (B) Canadian Standards Association Standard CSA B1800, Section B182.2, 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.
  - d) Except with leave of the Commission, the Permit Holder must ensure that bridges and 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 the table below for the period the Permit Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

Column 1 Anticipated period crossing structure will remain on site	Column 2 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:
  - (A) 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
  - (C) 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;

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Physical Address: 6534 Airport Road, Fort St. John, BC
Mailing Address: Bag 2, Fort St. John, BC V1J 2B0
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Facsimile: (250) 794-5200
24 Hour: (250) 794-5200

Permit Holder: LNG Canada Development Inc. Application Submission Date: February 7<sup>th</sup>, 2018

Application Determination number: 100104894 Date Issued: May 4th, 2018

- (C) 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
- (E) is removed before any period of high flow begins.
- e) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width;
- f) Equipment used for activities under this approval must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity.

## **ADVISORY GUIDANCE**

- 1. Construction plan Figure No. 4-4, Date: 27-Jul-17 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. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.

The Permit Holder must comply with any permissions, authorizations, approvals and conditions set out in the original permit, any subsequent amendments to the permit and any additional corrections as set out herein.

This letter forms an integral part of your permit and should be attached thereto.

Lori Phillips

Authorized Signatory

on Phillips

Commission Delegated Decision Maker

Copied to:

First Nations - Haisla Nation



April 11, 2018

LNG Canada Development Inc. 400-4<sup>th</sup> Street SW Calgary, Alberta T2P 0J4

Attention: LNG Canada Development Inc.

RE: Determination of Application Area Number 100104894

Permit Holder: LNG Canada Development Inc.

Date of Issuance: April 11, 2018 Effective Date: April 11, 2018

**Application Submitted Date:** February 7, 2018 **Application Determination Number:** 100104894

#### **ACTIVITIES APPROVED**

Changes In and About a Stream: 0004352

# **GENERAL AUTHORIZATIONS and CONDITIONS**

### **AUTHORIZATIONS**

#### Water Sustainability Act

- 1. The Commission, pursuant to section 11 of the *Water Sustainability Act*, authorizes the changes in and about a stream, as detailed in the Activities Approved table above, within the activity area for construction and maintenance activities, unless otherwise restricted by this authorization:
  - Instream works must be carried out in accordance with the methods and any mitigations, as specified in the application.
- 2. The Commission, pursuant to section 24 of the *Water Sustainability Act*, hereby authorizes the use of Crown land within the activity area, for the purpose of constructing, operating or maintaining works as specified in the application.

#### CONDITIONS

#### Notification

- 3. A notice of construction start must be submitted, as per the relevant Commission process at the time of submission, at least 48 hours prior to the commencement of activities under this permit.
- 4. The Permit Holder must notify the Commission and the Haisla Nation a minimum of 48 hours prior to the commencement of each activity conducted under this permit as outlined in the Section 11 Activity Table. Notification to the Commission must be sent to OGC.ExternalNotifications@bcogc.ca.

Permit Holder: LNG Canada Development Inc. Application Submission Date: February 7, 2018

Application Determination number: 100104894 Date Issued: April 11, 2018

5. 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.

#### Clearing

6. 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**

- 7. Works within streams, lakes and wetlands must be constructed in accordance with the methods and any mitigations, as specified in the application.
- 8. In-stream activities within a fish bearing stream, lake or wetland must occur:
  - b) during the applicable reduced risk work windows as specified in the Region 6 Skeena Reduced Risk In-stream Work Windows and Measures ; or
  - in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the Commission; or
  - d) in accordance with an authorization or letter of advice from Fisheries and Oceans Canada that is provided to the Commission.
- 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 the Permit Holder that works may resume.
- 10. The permit holder must ensure that, to the extent practicable:
  - riparian management areas, determined in accordance with 11 below, are developed and maintained on each side of compensatory streams; and
  - b) infrastructure and operating areas associated with the facility, except those intended to facilitate the crossing of a stream, are not located within the riparian management areas.
- 11. For the purposes of 10 above, classification of compensatory streams, as identified by Fisheries and Oceans Canada and minimum riparian management areas must be determined in accordance with the criteria set out in Part 4, Division 1 of the Environmental Protection and Management Regulation.
- 12. The permit holder must submit, to the satisfaction of the Commission, a Habitat Effectiveness Monitoring Report, via email to postpermitrequests@bcogc.ca at the end of each monitoring year (Years 1, 2, 3, 5, 7 and 10), that includes the following:
  - a) riparian plant inspection summary;
  - b) fish sampling summary;
  - c) water quality summary;
  - d) physical stability and hydraulic connectivity summary; and
  - e) maintenance and management recommendations, if any.

The permit holder must also submit, to the satisfaction of the Commission, via email to postpermitrequests@bcogc.ca, a summary report developed after year 10 verifying the success of the measures taken.

- 13. The permit holder must design and install adequate berms and barriers such that deleterious substances are prevented from entering streams.
- 14. A qualified specialist must be on site during all land clearing and infilling of stream operations. This individual must have the authority to stop or modify all construction operations as necessary to minimize impact to adjacent areas of aquatic habitat that are not subject to clearing and infilling.

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Facsimile: (250) 794-5200
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Permit Holder: LNG Canada Development Inc. Application Submission Date: February 7, 2018

Application Determination number: 100104894 Date Issued: April 11, 2018

- 15. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
  - a) Only bridges or culverts may be constructed at stream crossings;
  - b) 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.
  - c) Except with leave of the Commission, the Permit Holder must ensure that:
    - i. any culverts used are designed and fabricated in compliance with the applicable:
      - (a) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
      - (b) Canadian Standards Association Standard CSA B1800, Section B182.2, 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.
  - d) Except with leave of the Commission, the Permit Holder must ensure that bridges and 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 the table below for the period the Permit Holder anticipates the structure will remain on site, as set out in column 1in the table below:

Column 1	Column 2
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:
  - (a) 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
  - (c) 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;
  - (c) 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
  - (e) is removed before any period of high flow begins.

Permitting and Authorizations Page 3 of 4 Telephone: (250) 794-5200 Physical Address: 6534 Airport Road, Fort St. John, BC Facsimile: (250) 794-5379 Mailing Address: Bag 2, Fort St. John, BC V1J 2B0 24 Hour: (250) 794-5200

Permit Holder: LNG Canada Development Inc. Application Submission Date: February 7, 2018

Application Determination number: 100104894 Date Issued: April 11, 2018

e) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width;

f) Equipment used for activities under this approval must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity.

# **ADVISORY GUIDANCE**

- 1. Construction plan Figure No. 4-4, Date: 27-Jul-17 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. For the purpose of interpreting this authorization, the term "Qualified Specialist" means a member in good standing of a profession regulated in British Columbia and who is recognized by that profession as being qualified to work in an area of practice for which an opinion or advice is required. A Qualified Specialist must possess an appropriate combination of formal education, knowledge, skills, and experience to conduct a technically sound and rationally assessment for the area of practice, and be familiar with applicable regulation, standards, policies, protocols and guidelines.
- 3. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.

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

Mayka Kennedy, P.Eng.

Executive Vice President, Chief Engineer Commission Delegated Decision Maker

Copied to:

First Nations - Haisla Nation

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