



## CERTIFICATE GC-125

**IN THE MATTER OF** the *National Energy Board Act* (NEB Act) and the regulations made thereunder;

**IN THE MATTER OF** an application under section 52, Part III of the NEB Act, dated 8 November 2013, by NOVA Gas Transmission Ltd. (NGTL), for a Certificate of Public Convenience and Necessity authorizing the construction and operation of the North Montney Mainline (Project) filed with the National Energy Board (NEB or Board) under File OF-Fac-Gas-N081-2013-10 02.

**BEFORE** the Board on 10 March 2015.

**AND WHEREAS** the Project components are fully described in the attached Schedule A;

**AND WHEREAS** the Project has an estimated capital cost of approximately \$1.67 billion;

**AND WHEREAS** the Board reviewed NGTL's application and all subsequent submissions made by NGTL and the participants in the proceeding, and conducted an environmental assessment of the Project;

**AND WHEREAS** pursuant to Hearing Order GH-001-2014, the Board held a public hearing in respect of the Project, which included an oral portion conducted in Calgary, Alberta on 14 to 17, 20 to 24 and 27 October 2014, and in Fort St. John, British Columbia on 18 to 22, 24 and 25 November 2014.

**AND WHEREAS** the Board had regard to all considerations pursuant to Part III of the NEB Act, and that were directly related and relevant to the Project, according to the list of issues the Board identified for the Project;

**AND WHEREAS** the Board prepared and submitted to the Minister of Natural Resources the *National Energy Board Report for NOVA Gas Transmission Ltd.'s North Montney Mainline Project* (Report) setting out the Board's recommendation for the Project;

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**AND WHEREAS** the majority of the Board recommended that the Project, constructed and operated in full compliance with the terms and conditions set out by the Board in Appendix II of the Report and with the implementation of NGTL's environmental protection procedures, is not likely to cause significant adverse environmental effects and is overall in the Canadian public interest;

**AND WHEREAS** the Governor in Council has decided, taking into account the implementation of mitigation measures specified in the report with respect to the environmental assessment, including the terms and conditions contained in Appendix II of the Report, that the designated Project is not likely to cause significant adverse environmental effects.

**AND WHEREAS** the Governor in Council by Order in Council No. P.C.2015-799 dated 10 June 2015, directed the Board to issue Certificate of Public Convenience and Necessity GC-125 for the Project, subject to the terms and conditions contained in Appendix II of the Report;

**NOW THEREFORE**, pursuant to section 54 of the NEB Act, the Board hereby issues this Certificate in respect of the Project.

This Certificate is subject to the terms and conditions outlined below.

In these conditions, where any condition requires a filing with the Board "for approval", NGTL must not commence that action until the approval is issued by the Board.

In this document, the terms or expressions below (in bold) have the following meanings:

**Commencing construction** - the clearing of vegetation, ground-breaking and other forms of right-of-way (RoW) preparation that may have an impact on the environment (activities associated with normal surveying do not constitute commencing construction).

**Section 52 Facilities** – NGTL's proposed construction and operation of the North Montney Mainline, a new 1067 mm nominal pipe size (NPS 42) outside diameter sweet natural gas pipeline totaling approximately 301 km in length, and its related facilities which include 3 compressor stations, 16 meter stations and associated facilities.

**Certificate** – The Certificate of Public Convenience and Necessity, applied-for pursuant to section 52 of the NEB Act), authorizing the construction and operation of the Section 52 Facilities.

## Certificate Conditions

### General

#### **1. Condition Compliance**

NGTL shall comply with all of the conditions contained in this Certificate, unless the Board otherwise directs.

#### **2. Engineering**

NGTL shall cause the approved Section 52 Facilities to be constructed and operated in accordance with the specifications, standards and other information referred to in its Application, or as otherwise agreed to during questioning and in its related submissions.

#### **3. Implementation of Environmental Protection**

NGTL shall implement or cause to be implemented all of the policies, practices, programs, mitigation measures, recommendations and procedures for the protection of the environment included in or referred to in its Application, or as otherwise agreed to during questioning and in its related submissions.

### Prior to Commencing Construction

#### **4. Project Confirmation and Contractual Commitments**

NGTL shall file with the Board, **at least 60 days prior to commencing construction**, a confirmation, by an officer of the Company, that:

- a) Progress Energy Canada Ltd. has made a positive final investment decision on the proposed Pacific NorthWest LNG Project;
- b) TransCanada is proceeding with construction of the Prince Rupert Gas Transmission pipeline; and
- c) The Progress Delivery Project Expenditure Authorization and associated Service Documents for FT-D delivery service at the Mackie Creek Interconnection continues to be in effect for the quantity of 2340 terajoules per day as detailed in Section 3 of NGTL's Application.

#### **5. Heritage Resources**

NGTL shall file with the Board, **at least 30 days prior to commencing construction**:

- a) for each of the Aitken Creek and Kahta Sections, copies of all archaeological and heritage resource permits and clearances obtained from the BC Archaeology Branch; and

- b) a statement on how NGTL intends to implement any recommendations contained in the permits and clearances referred to in a) above.

#### **6. *Traffic Control Management Plan***

NGTL shall file with the Board, **at least 60 days prior to commencing construction**, a final Traffic Control Management Plan specific to the Section 52 Facilities. This plan shall include, but not be limited to:

- a) a summary of any issues or concerns raised by municipalities and regional authorities; and
- b) a description of how these issues and concerns are addressed in the Traffic Control Management Plan.

#### **7. *Outstanding Traditional Land Use Investigations***

NGTL shall, **at least 60 days prior to commencing construction**, file with the Board for approval, and send copies to the Aboriginal groups included in consultation activities, a report outlining a plan for outstanding traditional land use (TLU) investigations for the Section 52 Facilities. The report must include, but not be limited to:

- a) a summary of the status of TLU investigations undertaken for the Section 52 Facilities, including Aboriginal group-specific TLU studies or planned supplemental surveys;
- b) a description of how NGTL has considered and addressed information from any TLU investigations that it did not report on during the GH-001-2014 proceeding;
- c) a description of any outstanding concerns raised by potentially-affected Aboriginal groups regarding potential effects of the section 52 Facilities on the current use of lands and resources for traditional purposes, including a description of how these concerns have been or will be addressed by NGTL; and
- d) a summary of any outstanding TLU investigations or follow-up activities that will not be completed prior to commencing construction, including an estimated completion date, if applicable, and a description of how NGTL has already identified, or will identify, any potentially-affected TLU sites or resources if the outstanding investigations will not be completed prior to construction.

#### **8. *Employment, Contracting and Procurement Monitoring Reports***

NGTL shall file with the Board, **at least 30 days prior to commencing construction**, and every 180 days thereafter until completion of construction, monitoring reports on employment, contracting and procurement of Aboriginal groups, businesses and individuals for the construction of the Section 52 Facilities. The reports must include:

- a) a summary of the total employment, contracting and procurement of Aboriginal groups, businesses and individuals for construction of the Section 52 Facilities during the reporting period, including:
  - i) the number of Aboriginal individuals employed and a summary description of the types of positions filled by Aboriginal employees during the reporting period;
  - ii) a summary description of the contracts awarded to or executed with Aboriginal groups, businesses or individuals during the reporting period, and the total monetary values of these;
  - iii) a summary description of procurement awarded to Aboriginal groups, businesses, or individuals during the reporting period, and the total monetary value of these; and
  - iv) a comparison of the totals and values described in i) through iii) above in relation to NGTL's stated commitments for employment, contracting and procurement of Aboriginal groups, businesses and individuals for the construction of the Section 52 Facilities; and
- b) a summary of NGTL's consultation with Aboriginal groups for the Project, businesses or representatives regarding employment, contracting and procurement for the reporting period, including any issues or concerns raised and how NGTL has addressed or responded to them.

NGTL shall file with the Board, within three months of completion of construction, and provide a copy to all affected Aboriginal groups, a final report on employment, contracting and procurement of Aboriginal groups, businesses and individuals during the construction phase.

**On or before 31 January after each of the first, third, fifth years following the commencement of operation of the Section 52 Facilities**, NGTL shall file with the Board, and provide copies to all affected Aboriginal groups, reports on employment, contracting and procurement regarding the Section 52 Facilities of Aboriginal groups, businesses and individuals for the Project, during each reporting period.

### ***9. Construction Training and Education Monitoring Reports***

NGTL shall file with the Board, **at least 30 days prior to commencing construction, and every 180 days thereafter until completion of construction**, monitoring reports for the implementation and outcomes of training and education initiatives and opportunities provided to Aboriginal groups and individuals for the Project.

The reports must include:

- a) a description of each training and education initiative and opportunity implemented during the reporting period, including duration, participant groups, delivery agency or institution, and intended outcomes;
- b) a description of any measures identified to address or meet the terms or commitments; and

- c) a summary of NGTL's consultation with relevant Aboriginal groups or representatives, government sponsors, industry associations, and delivery agencies or institutions regarding training and education initiatives and opportunities for the reporting period, including any issues or concerns raised and how NGTL has addressed or responded to them.

NGTL shall file with the Board, within three months of completion of construction, and provide copies to all affected Aboriginal groups, a final report on training and education initiatives and opportunities for Aboriginal groups and individuals during the construction phase.

**On or before 31 January after each of the first, third, fifth years following the commencement of operation of the Section 52 Facilities**, NGTL shall file with the Board, and provide copies to all affected Aboriginal groups, reports on training and education initiatives and opportunities provided to Aboriginal groups and individuals for the Project, during each reporting period.

#### ***10. Report on Consultations with Prophet River First Nation***

NGTL shall file with the Board, **at least 30 days prior to commencing construction at the Sikanni Chief River crossing location**, a report on consultation activities with Prophet River First Nation (PRFN) regarding any measures to reduce, eliminate or offset potential Project effects on traditional land and resource use sites and activities, including culture camps, identified near the Sikanni Chief River crossing location. The report must include, but not be limited to:

- a) a summary of the consultation activities undertaken, including:
  - i) the methods, dates and locations of consultation activities;
  - ii) a summary of the comments and concerns raised or information provided by PRFN;
  - iii) a summary of NGTL's response to all of the comments and concerns raised or information provided;
  - iv) a summary of any outstanding concerns about the Project's potential effects raised by PRFN, any steps that will be taken to address these outstanding concerns, or an explanation why no further steps are required; and
  - v) a description of the resources provided to PRFN that supported its participation in consultation activities; and
- b) for Board approval, a summary of the assessment of the Project's potential effects on any traditional land and resource use sites or activities identified at the Sikanni Chief River crossing location, including:
  - i) a description of any traditional land and resource sites or activities, including culture camps, that may be affected by the river crossing location and associated construction, reclamation or operation activities;

- ii) a description of the measures identified to reduce, eliminate or offset potential Project effects on identified traditional land and resource use sites or activities; and
- iii) a description of how any concerns raised or information provided by PRFN on are addressed by or incorporated into the measures identified to reduce, eliminate or offset potential Project effects on identified traditional land and resource use sites or activities.

### ***11. Peace Moberly Tract Protection Plan (PMTTP)***

Construction in the Peace Moberly Tract (PMT) shall not commence until NGTL has received approval of its PMTTP by the Board.

NGTL shall file with the Board for approval, **at least 60 days prior to commencing construction in the PMT**, a PMTTP. The plan shall include, but not be limited to, the following:

- a) the goals and measureable objectives of the PMTTP;
- b) an identification and rationale of biophysical and socio-economic elements to be included in the PMTTP;
- c) a description of mitigation measures proposed to eliminate or reduce any potential effects on the biophysical and socio-economic elements identified in b) within the PMT; including, but not limited to the following:
  - i) the hierarchy of mitigation and order of priority applied to the PMT and details on considerations made in moving from one level to the next;
  - ii) measures to avoid, minimize and restore impacts on the elements identified in b), including a discussion on the following:
    - a. trenchless pipe installation, including the criteria for determining when it will be used;
    - b. line of sight reduction;
    - c. linear feature disturbance reduction, including interactions with existing disturbances;
    - d. access management;
    - e. methods of reclamation and re-vegetation, including a discussion of woody material handling, site and soil treatment and active re-vegetation, where ground cover and full canopy trees have been impacted; and
    - f. measures to further reduce or eliminate potential effects on the use of traditional and land and resources by Aboriginal groups in the PMT; and
- d) a description of the construction and operational monitoring plans that will be used to assess and demonstrate implementation and report effectiveness of mitigation, including;

- i) a description of the criteria to assess effectiveness; and
  - ii) a plan for the participation of Aboriginal groups, including but not limited to the implementation of NGTL's Aboriginal Construction Training Program within the PMT; and
- e) a description and justification for how NGTL has incorporated the results of consultation with Aboriginal groups and government authorities into the plan, including:
- i) how available and applicable TLU studies were taken into consideration in developing mitigation within the PMT;
  - ii) how new or additional information provided through consultation was considered and addressed;
  - iii) how the final mitigation measures accounted for and addressed any concerns or requests from Aboriginal groups and government authorities; and
  - iv) a description and justification for why any concerns or requested measures were not incorporated into the plan;
- f) methods for determining the extent of non-avoidable effects on b) within the PMT;
- g) a discussion on possible enhancement or offset measures for all non-avoidable effects on socio-economic elements within the PMT including how any measures would be determined to be effective or adequate; and
- h) a summary of any outstanding issues or concerns raised by potentially affected Aboriginal groups or government authorities, including a description of how these concerns or issues have been or will be addressed by NGTL.

## ***12. Peace Moberly Tract Protection Plan (PMTTP) – Consultation Plan***

NGTL shall file with the Board for approval, **at least 120 days prior to commencing construction in the PMT**, a plan for consultation with West Moberly First Nations, Saulteau First Nations, and relevant provincial or federal departments or authorities for the development of the PMTTP. The consultation plan must include, but not be limited to:

- a) the goals, principles and objectives for consultation for the development of the PMTTP;
- b) a list of Aboriginal groups and government departments that have been identified for consultation;
- c) a schedule and description of consultation activities, including defined outcomes or objectives for the activities;
- d) a description of how information provided by Aboriginal groups and provincial or federal departments or authorities will be incorporated into the PMTTP, including:
  - i) how available and applicable traditional land and resource use studies will be considered and incorporated in the PMTTP;
  - ii) how new or additional information will be considered and addressed;



- iii) a description of the process and criteria that will be used to evaluate proposed or requested mitigation measures for the PMTPP, including the process and criteria for any concerns or proposed measures that will not be incorporated into the PMTPP;
- e) a description of the process to be used for review of the final plan by participating Aboriginal groups and government departments, including review of all final proposed mitigation measures; and
- f) a description of the resources that will be available to support the participation of Aboriginal groups in the development of the PMTPP.

### ***13. Visual Impacts Mitigation Plan for Groundbirch Compressor Station***

NGTL shall file with the Board, for approval, **at least 30 days prior to commencement of construction of the access road for the Groundbirch Compressor Station**, a plan to mitigate the visual impacts of the compressor station access road on affected landowners. This plan must include, but is not limited to:

- a) a detailed description of the measures NGTL will implement to fulfill its commitment to reducing visual impacts, including but not limited to retaining the tree line along the access road for the Groundbirch Compressor Station;
- b) a summary of consultations with the affected landowners regarding the measures to reduce visual impacts, including retaining and maintenance of the tree line. This must include a summary of any concerns raised by the affected landowners, how NGTL has addressed these concerns, and how any outstanding concerns raised by the affected landowners will be addressed or explanation why no further steps would be taken; and
- c) confirmation of:
  - i) the land tenure or ownership of the lands for the access road, including the land on which the tree line is located; and
  - ii) the length of time over which NGTL will implement mitigation measures, including retaining the tree line along the access road for the Groundbirch Compressor Station.

### ***14. Environmental Protection Plan (EPP)***

NGTL shall file with the Board for approval, **at least 60 days prior to commencing construction**, an updated EPP specific to the Section 52 Facilities that includes, but is not limited to, the following:

- a) environmental procedures including site-specific plans, criteria for implementation of these procedures, mitigation measures and monitoring applicable to all Project phases and activities;

- b) a reclamation plan, which includes a description of the condition to which NGTL intends to reclaim and maintain the RoW, once construction has been completed, and a description of measurable goals for reclamation;
- c) all mitigation related to caribou and caribou habitat which includes:
  - i) NGTL's commitments to adhering to specific provincial and federal best practices, requirements and timing restrictions;
  - ii) a list of all measures to minimize disturbance to caribou habitat, and measures to be taken before and during construction to help accelerate the restoration of caribou habitat; and
  - iii) the locations where those measures will be taken.
- d) all mitigation related to western toad and western toad habitat which includes:
  - i) a description of how NGTL will raise awareness of construction personnel of the potential presence of western toad on the RoW and ensure the implementation and compliance with its Wildlife Species of Concern Discovery Contingency Plan;
  - ii) a description of the frequency and location of sweeps that will be conducted to determine the presence of western toad on the RoW; and
  - iii) a description of the specific deterrent and relocation measures that will be implemented if western toad is discovered on the RoW during construction.
- e) environmental alignment sheets, for the construction and operation of the Section 52 Facilities; and
- f) evidence demonstrating that:
  - i) there is a management system in place, which ensures the updates of the environmental protection procedures, mitigation measures and monitoring are effectively communicated to employees, contractors and regulators; and
  - ii) consultation took place with relevant government authorities, where applicable.

The EPP shall be a comprehensive compilation of all environmental protection procedures, mitigation measures, and monitoring commitments, as set out in NGTL's application for the Section 52 Facilities, subsequent filings, evidence collected during the hearing process, or as otherwise agreed to during questioning and in its related submissions. The EPP shall describe the criteria for the implementation of all procedures and measures.

#### **15. *Caribou Habitat Restoration Plan (CHRP)***

NGTL shall file with the Board for approval, in accordance with the timelines below, preliminary and final versions of a CHRP for each of the Aitken Creek and Kahta Sections of the Section 52 Facilities. At the time of filing with the Board, NGTL shall provide a copy of the filings to Environment Canada and the appropriate provincial authorities.

- a) Preliminary CHRP to be filed **at least 90 days prior to commencing construction**. This version of the CHRP shall include, but not be limited to:
- i) the goals and measureable objectives of the CHRP;
  - ii) decision frameworks that will be used to prioritize potential caribou habitat restoration sites and to prioritize mitigative actions to be used at different types of sites, including consideration of typical site factors that may constrain implementation;
  - iii) a literature review on which the decision frameworks are based including:
    - a. an identification of temporal and special caribou habitat restoration methodologies applicable to mountain caribou;
    - b. an assessment of the relative effectiveness of the identified methodologies;
    - c. detailed methodology of how the literature review was conducted.
  - iv) the quantifiable targets and performance measures that will be used to evaluate the extent of predicted residual effects, the extent to which the goals and objectives have been met, and the need for consequent compensation offsets;
  - v) a schedule indicating when measures will be initiated and completed;
  - vi) a table summarizing any differences or updates from the last previous NGTL CHRP filed with the Board for other projects; and
  - vii) evidence and a summary of how consultation feedback from Environment Canada and appropriate provincial authorities is integrated into the CHRP.
- b) Final CHRP to be filed **on or before 1 November after the first complete growing season following the commencement of operation for the Section 52 Facilities**. This updated version of the CHRP shall include, but not be limited to:
- i) the preliminary CHRP, with any updates identified in a revision log that includes the rationale for any changes to decision making criteria;
  - ii) a complete table describing caribou habitat restoration sites, including but not limited to location, spatial area, description of habitat quality, site-specific restoration activities and challenges;
  - iii) specification drawings for the implementation of each restoration method;
  - iv) maps or Environmental Alignment Sheets showing the locations of the sites;
  - v) evidence of how further consultation feedback from Environment Canada and appropriate provincial authorities is integrated into the plan; and
  - vi) a quantitative and qualitative assessment of the total area of direct disturbance to caribou habitat that will be restored, the duration of spatial disturbance, and the

aerial extent of the resulting residual effects to be offset, which also includes indirect disturbance.

#### **16. Access Management Plan (AMP)**

NGTL shall file with the Board for approval, **at least 90 days prior to commencing construction**, an Access Management Plan (AMP) for non-parallel disturbances along the RoW for each of the Aitken Creek and Kahta Sections of the Section 52 Facilities, which includes, but is not limited to:

- a) the methodology used to develop the AMP, including baseline information to be used for assessing effectiveness;
- b) the goals for monitoring and managing access, and the measures and criteria to be used to achieve those goals;
- c) the method and frequency of inspections for access controls along the ROW during operations for the life of the Project;
- d) the criteria for determining the need for maintenance, repair, or installation of new access control measures, including:
  - i) a description of the contingency measures that will be implemented if existing access controls prove to be ineffective at preventing new access;
  - ii) an indication of the timeframe to implement contingency measures; and
- e) a schedule for reporting to the Board during construction and operation, including after the first, third and fifth year following the commencement of construction:
  - i) the relative amount of access (increase or decrease and by quantifiable amount over baseline or previous reporting period);
  - ii) steps taken when implementing the criteria identified in (d); and
  - iii) the results of the evaluation of the overall effectiveness of the AMP.

#### **17. Grizzly Bear Report**

For each of the Aitken Creek and Kahta Sections of the Section 52 Facilities, if the commencement of construction will occur between 15 November and 1 May, NGTL shall file with the Board a Grizzly Bear Report, **at least 14 days prior to commencing construction**. The Grizzly Bear Report shall provide a summary of the results of the grizzly bear den sweeps to identify potential grizzly bear dens within 750 m of the Section 52 Facilities. The Grizzly Bear Report shall also include:

- a) if a grizzly bear den is found during a sweep, any newly-developed or modified mitigation measures as well as evidence of consultation with the appropriate federal and provincial authorities regarding the proposed mitigation;

- b) confirmation that no changes to the EPP are required as a result of the findings of a sweep or mitigation measures identified in (a), or if changes are necessary, provide the EPP pages that have been amended.

For each of the Aitken Creek and Kahta Sections of the Project, if no construction will occur on or after 15 November, NGTL shall file with the Board, **at least 14 days prior to commencing construction**, a letter indicating that the grizzly bear den survey will not be required.

#### **18. *Navigation and Navigation Safety Plan***

For each of the Aitken Creek and Kahta Sections of the Section 52 Facilities, NGTL shall file with the Board for approval, **at least 60 days prior to commencing construction**, a Navigation and Navigation Safety Plan specific to the Section 52 Facilities that includes, but is not limited to:

- a) an updated listing of navigable waters to be crossed by the Section 52 Facilities or affected by the Section 52 Facilities;
- b) an updated listing of effects of the Section 52 Facilities on navigation and navigation safety;
- c) evidence and a summary of NGTL's consultation with potentially affected waterway users and Aboriginal groups regarding navigation use, including any concerns that were raised and how those have been addressed; and
- d) proposed mitigation measures to address effects of the Section 52 Facilities on navigation and navigation safety for each navigable waterway.

#### **19. *Programs and Manuals***

NGTL shall file with the Board the following programs and manuals within the time specified:

- a) Updated Construction Safety Manual, pursuant to section 20 of the *National Energy Board Onshore Pipeline Regulations*: **at least 14 days prior to commencing construction**;
- b) Field Joining Program: **at least 14 days prior to the commencement of joining activity**;
- c) Field Pressure Testing Program: **at least 14 days prior to the commencement of pressure testing**;
- d) Operation and Maintenance Manual: **at least 14 days prior to the commencement of operation**; and
- e) Three copies of an updated Emergency Procedures Manual(s) or confirmation that the existing Emergency Procedures Manual(s) are inclusive of the Section 52 Facilities and do not require updating: **at least 45 days prior to the commencement of operation**.

**20. Final Pipe Specifications**

NGTL shall file with the Board, **at least 14 days prior to commencing construction**, NGTL's final Pipeline Construction Specifications.

**21. Commitments Tracking Table (CTT)**

NGTL shall:

- a) file with the Board and post on its Project website, **within 90 days after the Certificate date and at least 30 days prior to commencing construction**, a Commitments Tracking Table listing all commitments made by NGTL in its Application, and as otherwise agreed to during questioning or in its related submissions, including reference to:
  - i) the documentation in which the commitment appears (for example, the Application, responses to information requests, hearing transcripts, permit requirements, condition filings, or other);
  - ii) the accountable lead for implementing each commitment; and
  - iii) the estimated timelines associated with the fulfillment of each commitment.
- b) update the status of the commitments in a) on its Project website on a:
  - i) monthly basis until the commencement of operation; and
  - ii) quarterly basis until the end of the fifth (5th) year following the commencement of operation; and
- c) maintain at its construction office(s):
  - i) the Commitments Tracking Table listing all regulatory commitments and their completion status, including but not limited to those commitments resulting from NGTL's Application and subsequent filings and conditions from permits, authorizations and approvals;
  - ii) copies of any permits, approvals or authorizations issued by federal, provincial or other permitting authorities, which include environmental conditions or site-specific mitigation or monitoring measures; and
  - iii) any subsequent variances to any permits, approvals or authorizations in ii).

**22. Construction Schedule**

NGTL shall file with the Board, **at least 14 days prior to commencing construction of the approved facilities**, a detailed construction schedule(s) identifying major construction activities, and shall notify the Board of any modifications to the schedule(s) as they occur.

**During Construction**

**23. Finalized Watercourse Crossing Designs**

For all watercourse crossings, NGTL shall file with the Board, **at least 60 days prior to commencing any watercourse crossing construction activities:**

- a) an updated inventory of all the watercourses to be crossed. This inventory shall include:
  - i) location(s) of the crossing(s);
  - ii) primary and contingency crossing methods;
  - iii) timing of construction;
  - iv) presence of fish and fish habitat;
  - v) fisheries timing window of least risk for each crossing; and
  - vi) whether all of Fisheries and Oceans Canada’s applicable “Measures to Avoid Causing Harm to Fish and Fish Habitat” will be implemented.
- b) detailed generic design drawings of trenchless, dry open-cut, frozen open-cut and isolation crossings of various watercourse types;
- c) for each non-trenchless watercourse crossing that will be conducted outside of the fisheries window of least risk (both primary and contingency methods), or any crossings that will be conducted in non-isolated flowing water conditions, include:
  - i) detailed crossing specific design drawings;
  - ii) the fish species that may be present and if fish spawning is likely to occur within the immediate area;
  - iii) mitigation to be used to minimize impacts to fish; and
  - iv) a discussion of potential impacts to local fisheries resources within the immediate area as a result of the crossing construction.

**24. Authorizations under subsection 35(2)(b) of the Fisheries Act**

- a) For those watercourse crossings that will require an authorization under subsection 35(2)(b) of the *Fisheries Act*, NGTL shall file with the Board for approval, **at least 120 days prior to commencing construction of those watercourse crossings:**
  - i) a draft *Application Form for Paragraph 35(2)(b) Fisheries Act Authorization* for those watercourses crossings that will require authorization under subsection 35(2)(b) of the *Fisheries Act*;
  - ii) a draft application package for authorization that includes all the information detailed in the *Applicant’s Guide to Submitting an Application for Authorization under Paragraph 35(2)(b) of the Fisheries Act*, including:

- a. contact information;
  - b. a description of the proposed work, undertaking or activity;
  - c. detailed design;
  - d. the timeline;
  - e. location;
  - f. a description of fish and fish habitat (aquatic environment);
  - g. a description of effects on fish and fish habitat;
  - h. measures and standards to avoid or mitigate serious harm to fish;
  - i. a description of the monitoring measures;
  - j. residual serious harm to fish after implementing avoidance and mitigation measures and standards;
  - k. an offsetting plan, including associated monitoring programs;
  - l. proof of the letter of credit; and
- iii) a summary of NGTL's consultation with government authorities, stakeholders, and any potentially affected Aboriginal groups, regarding the works proposed to be authorized, as well as any offsetting measures proposed. This summary must include any issues or concerns raised regarding these works and how NGTL has addressed or responded to them; and
- b) NGTL shall file with the Board, **at least 10 days prior to commencing construction of those watercourse crossings identified in a)**, a copy of the *Fisheries Act* subsection 35(2)(b) Authorization issued by Fisheries and Oceans Canada.

## 25. *Trenchless Crossings*

Should NGTL decide to use alternative crossing techniques from its proposed trenchless watercourse crossing method:

- a) for those watercourse crossings that will not require a *Fisheries Act* subsection 35(2)(b) Authorization, NGTL shall file at least 30 days prior to the undertaking of the contingency crossing method:
  - i) a summary of changes and the reasons for that change;
  - ii) copies of all correspondence from regulatory authorities relating to the change; and
  - iii) an assessment of effects to fish and fish habitat; and/or
- b) for those watercourse crossings that may require a *Fisheries Act* subsection 35(2)(b) Authorization, NGTL shall file at least 60 days prior to the undertaking of the contingency crossing method:



- i) a summary of changes and the reasons for that change;
- ii) copies of all correspondence from regulatory authorities relating to the change;
- iii) an assessment of effects to fish and fish habitat; and
- iv) a draft *Fisheries Act* Application package.

## **26. *Hydrostatic Testing Plan***

NGTL shall file with the Board, **at least 60 days prior to pressure testing**, a Hydrostatic Testing Plan for the Section 52 Facilities that includes:

- a) the location(s) of water withdrawal and discharge;
- b) clearing activities or any other associated works, if required, to allow for transport of the hydrostatic test water to the Section 52 Facilities;
- c) the rate(s) of water withdrawal;
- d) the volume(s) of water withdrawal;
- e) the flow rate/volume of water at withdrawal location(s); and
- f) any site-specific mitigation measures to be used at the water withdrawal and discharge locations, or at any other locations required to allow for the transport of hydrostatic test water.

## **27. *Construction Progress Reports***

NGTL shall file with the Board, **at the middle and end of each month during construction**, construction progress reports. The reports shall include information on the activities carried out during the reporting period; any environmental, socio-economic, safety and security issues and issues of non-compliance; and the measures undertaken for the resolution of each issue and non-compliance.

Each construction progress report, **filed after 15 December 2015 for the Aitken Creek Section and after 15 December 2016 for the Kahta Section**, shall also include:

- a) an update on the extent to which potential delays to the construction schedule filed with the Board risk the overlap of construction activities with caribou critical timing windows; and
- b) an explanation of whether any additional mitigation measures are required and will be implemented to reduce that risk.

## **28. *Welding and Non-Destructive Examination Procedures***

NGTL shall, during construction, maintain at each construction site:

- a) a copy of the applicable welding procedures;

- b) a copy of the applicable non-destructive examination and testing procedures used on the Project; and
- c) all supporting documentation related to non-destructive examination and testing.

**29. *Horizontal Directional Drilling***

NGTL shall file with the Board, **at least 30 days before commencement of horizontal directional drilling**, NGTL's horizontal directional drilling execution program.

**30. *Cathodic Protection***

NGTL shall file with the Board, **at least 14 days prior to installing cathodic protection in wetland areas**, a detailed description of the specific measures NGTL will implement to ensure cathodic protection is adequately maintained under the concrete coating or weights in wetland areas.

**31. *Slope and Bank Failures***

NGTL shall file with the Board, **at least 14 days prior to commencing geo-technical work**, a detailed description and the scope of the mitigation necessary to protect the Section 52 Facilities, the RoW, and to prevent future bank or slope failures.

**Post-Construction and Operations**

**32. *Quantification and Mitigation of Construction-Related Greenhouse Gas (GHG) Emissions***

NGTL shall file with the Board, **at least 30 days prior to requesting Leave to Open**, a quantitative assessment of GHG emissions directly related to the construction and clearing of each of the Aitken Creek and Kahta Sections of the Section 52 Facilities (presented separately), including but not limited to emissions generated by vehicles and equipment, land clearing and slash burning. In addition to the results of the assessment, the filing shall describe the calculation methodology used, identify assumptions and inputs, and describe what variables may affect the results. The filing shall also describe measures implemented to reduce GHG emissions and any measures implemented or planned to offset the GHG emissions.

**33. *Quantification of Operation-Related GHG Emissions***

NGTL shall file with the Board, **at least 60 days prior to requesting Leave to Open**, an updated quantitative assessment of GHG emissions directly related to the operation of each of the Aitken Creek and Kahta Sections of the Section 52 Facilities (presented separately), including but not limited to emissions generated by fossil fuel combustion, fugitive emissions and maintenance activities. In addition to the results of the assessment, the filing shall describe the calculation methodology used, identify assumptions and inputs, and describe what variables may affect the results. The filing must also describe mitigation measures implemented or

planned to reduce the GHG emissions and any measures implemented or planned to offset the GHG emissions.

#### **34. Noise Assessment**

NGTL shall, **within 120 days of the commencement of operation of the Groundbirch Compressor Station:**

- a) conduct post-construction noise monitoring at the Groundbirch Compressor Station;
- b) file the results of post-construction noise monitoring with the Board demonstrating compliance with the British Columbia Oil and Gas Commission's *British Columbia Noise Control Best Practices Guideline*; and
- c) if there is an increase in overall sound levels and/or low frequency noise, file a plan for how NGTL will achieve compliance with the *British Columbia Noise Control Best Practices Guideline*.

#### **35. Peace Moberly Tract - Monitoring Report**

**On or before 31 January after each of the first, third and fifth complete growing seasons following the commencement of operation of the pipeline,** NGTL shall file with the Board, a PMT monitoring report that:

- a) describes the methodology used for monitoring, the criteria established for evaluating success and the results found, for Board approval;
- b) identifies the environmental and socio-economic issues to be monitored, including but not limited to unexpected issues that arose during construction, and their locations;
- c) describes the current status of the issues (resolved or unresolved), any deviations from plans and corrective actions that were or will be undertaken;
- d) assesses the effectiveness of mitigation (planned and corrective) measures applied against the criteria for success;
- e) describes consultation undertaken with Aboriginal groups and appropriate provincial and federal authorities, including a summary of any concerns raised, any steps taken to address the concerns or an explanation why no further steps were required, and any outstanding concerns;
- f) a summary of activities undertaken to implement plans for monitoring by or with representatives from Aboriginal communities, including:
  - i) issues identified by representatives or monitors from Aboriginal communities;
  - ii) the status of the issues;
  - iii) a description of any recommendations made by representatives or monitors from Aboriginal communities, whether these were implemented, and explanation why any recommendations from Aboriginal communities were not implemented; and

- iv) a description of any resources provided to Aboriginal communities that supported their participation in activities, including monitoring; and,
- g) provides proposed measures and the schedule that NGTL would implement to address ongoing issues or concerns, for Board approval.

**36. *Offsets Measures Plan for Residual Impacts to Caribou Habitat***

NGTL shall file with the Board for approval, a plan to offset all residual effects of the Aitken Creek Section 52 Facilities resulting from directly and indirectly disturbed critical habitat for caribou, after taking into account the implementation of the EPP and CHRP measures (Offset Measures Plan). NGTL shall provide a copy of the Offset Measures Plan to Environment Canada and the appropriate provincial authorities. The Offset Measures Plan for the Section 52 Facilities shall include:

- a) a preliminary version, to be filed with the Board for approval **at least 90 days prior to requesting Leave to Open for the Aitken Creek section of the Section 52 Facilities**, including, but not limited to, a discussion of:
  - i) an initial quantification of the area of critical habitat for caribou directly and indirectly disturbed;
  - ii) a list of the potential on-the-ground offset measures available, the expected effectiveness of each, including a discussion of uncertainty, and how the measures align with criteria specified in the scientific literature specific to conservation offsets;
  - iii) the relative quantitative and qualitative value of each measure towards achieving the offset;
  - iv) the proposed offset ratios for each potential measure, based on consultation with expert agencies and on a review of the literature on conservation offsets; and
  - v) decision framework that will be used to select which specific offset measures and accompanying offset ratios would be used under what circumstances; and
- b) a final version, to be filed with the Board for approval **on or before 1 February after the second complete growing season following the commencement of operation for the Aitken Creek section of the Section 52 Facilities**, including:
  - i) the contents of the preliminary version, with any updates identified in a revision log that includes the rationale for any changes to decision making criteria;
  - ii) a complete table listing the offset measures and offset ratios to be implemented or already underway, including site-specific details and map locations, and an explanation of how they meet criteria in the scientific literature for offsets;
  - iii) a description of factors considered when determining the location for offset measures, including consideration of how the measures could maximize benefits to landscape variables;

- iv) a schedule indicating when offset measures will be initiated and the estimated date when implementation will be complete; and
  - v) an assessment of the predicted effectiveness of the measures, including a discussion of uncertainty, and a quantitative compilation showing how the offset measures have offset the previously calculated residual effects;
- c) Both the preliminary and final versions of the plan shall also include:
- i) evidence of how consultation feedback from Environment Canada, provincial authorities and any potentially affected Aboriginal groups is integrated into the plan; and
  - ii) any updates to applicable Recovery Strategy, Range and Action Plans, as well as range boundaries and identified critical habitat made prior and up to the date on which LTO is granted.

### ***37. Caribou Habitat Restoration and Offset Measures Monitoring Program***

NGTL shall file with the Board for approval, **on or before 1 February after the first complete growing season following the commencement of operation for each of the Aitken Creek and Kahta Sections of the Section 52 Facilities**, a Program for monitoring and verifying the effectiveness of the caribou habitat restoration and offset measures implemented as part of the CHRP and Offset Measures Plan. This Caribou Habitat Restoration and Offset Measures Monitoring Program shall be for a minimum of 10 years and include, but not be limited to:

- a) the scientific methodology or protocol for short-term and long-term monitoring of the restoration and offset measures, and the effectiveness of the measures;
- b) frequency, timing, locations and the rationale for each monitoring;
- c) protocols for how restoration and offset measures will be adapted, as required, based on the monitoring results from the implementation of either section of the Section 52 Facilities or other NGTL CHRPs and Offset Measures Plans; and
- d) a schedule for filing reports of monitoring results and the adaptive management responses, to the Board, Environment Canada and provincial authorities to be contained in the Caribou Habitat Restoration and Offset Measures Monitoring Program as well as at the beginning of each report filed.

### ***38. Caribou Monitoring Reports***

NGTL shall file with the Board, based on the schedule referred to in the Caribou Habitat Restoration and Offset Measures Monitoring Program, a report(s) outlining the results of the monitoring program.

### **39. *Post-Construction Monitoring Reports***

**On or before 31 January after each of the first, third and fifth complete growing seasons following the commencement of operation of the Section 52 Facilities**, NGTL shall file with the Board, a post-construction environmental monitoring report that:

- a) describes the methodology used for monitoring, the criteria established for evaluating success and the results found;
- b) identifies any modifications for the criteria established for evaluating reclamation success described in its EPP, as approved by the Board, and the rationale for any modifications;
- c) identifies the issues to be monitored, including but not limited to unexpected issues that arose during construction, and their locations (e.g. on a map or diagram, in a table);
- d) describes the current status of the issues (resolved or unresolved), any deviations from plans and corrective actions undertaken;
- e) assesses the effectiveness of the mitigation (planned and corrective) measures applied against the criteria for success;
- f) includes details of consultation undertaken with the appropriate provincial and federal authorities; and
- g) provides proposed measures and the schedule that NGTL would implement to address ongoing issues or concerns.

The report shall address, but not be limited to, the issues pertaining to soils, weeds, watercourse crossings, wetlands, rare plants, wildlife and wildlife habitat, fish and fish habitat, species at risk, and any activities associated with the hydrostatic testing plans.

### **40. *Geotechnical Report Regarding Slope Stability***

NGTL shall file with the Board, **within 90 days of the completion of construction**, a geotechnical report which includes:

- a) the geotechnical observations;
- b) the field recommendations;
- c) how NGTL implemented the field recommendations during construction of the Section 52 Facilities;
- d) the location of trench breakers, drainage and erosion control measures;
- e) all of the slope stabilization techniques implemented;
- f) its recommendations with respect to follow up monitoring, notably at locations where inactive slide areas have been noted;
- g) a plan to follow up on the recommendations made in f); and
- h) a rationale for circumstances where field or other recommendations have not been implemented.

**41. *Geotechnical Report Regarding Muskeg***

NGTL shall file with the Board, **within 90 days of the completion of construction**, a geotechnical report which includes, but is not limited to:

- a) the muskeg observations;
- b) the field recommendations;
- c) how NGTL implemented the field recommendations during construction of the Section 52 Facilities;
- d) its recommendations with respect to follow up monitoring;
- e) a plan to follow up on the recommendations made; and
- f) a rationale for any instance where recommendations have not been implemented.

**42. *Geotechnical Report Regarding Permafrost***

NGTL shall file with the Board, **within 90 days of the completion of construction**, a geotechnical report which includes, but is not limited to:

- a) the permafrost observations;
- b) the field recommendations;
- c) how NGTL implemented the field recommendations during construction of the Section 52 Facilities;
- d) its recommendations with respect to follow up monitoring;
- e) a plan to follow up on the recommendations made; and
- f) a rationale for any circumstances when recommendations are not followed.

**43. *Pipeline Geographic Information System (GIS) Data***

NGTL shall file with the Board, **within one year after commencing operations**, GIS data in the form of an Esri®shape file that contains pipeline segment centre lines, where each segment has a unique outside diameter, wall thickness, MOP, external coating, field-applied girth weld coating, and pipe manufacturing specification. If the above values of the pipeline change at any point along the length of the pipeline, the pipeline should be segmented at that point. NGTL shall also provide GIS locations and names of pump stations, terminals, custody transfer meters, and block valves, as applicable.

The datum must be NAD83 and projection must be geographic (latitudes and longitudes).

**44. Condition Compliance by a Company Officer**

**Within 30 days of the date that the approved Section 52 Facilities are placed in service,** NGTL shall file with the Board a confirmation, by an officer of the Company, that the approved Section 52 Facilities were completed and constructed in compliance with all applicable conditions in this Certificate.

If compliance with any of the applicable conditions cannot be confirmed, the officer of the Company shall file with the Board details as to why compliance cannot be confirmed. Any filing required by this condition shall include a statement confirming that the signatory to the filing is an officer of the Company.

**45. Sunset Clause**

Unless the Board otherwise directs prior to **10 June 2016**, this Certificate shall expire on **10 June 2016**, unless construction in respect of the Section 52 Facility has commenced by that date.

Issued at Calgary, Alberta, on the 11 June 2015.

NATIONAL ENERGY BOARD

*Original signed by L. George for*

Sheri Young  
Secretary of the Board



**SCHEDULE A**

**CERTIFICATE GC-125**

**NOVA Gas Transmission Ltd.**  
**Application dated 8 November 2013**  
**assessed pursuant to section 52 of the *National Energy Board Act***

**Section 52 Facilities of the North Montney Mainline Project**  
**File OF-Fac-Gas-N081-2013-10 02**

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Pipeline Specifications – Section 52 Facilities

<b>Project Type</b>	New Construction
<b>Location (endpoints)</b>	Beginning at the existing Saturn section on Groundbirch Mainline, British Columbia Legal Location - 14-21-80-20-W6M and Ending at Kahta Creek North Receipt Meter Station, British Columbia Legal Location - D-030-K/094-G-07
<b>Approximate Length</b>	301 km
<b>Outside Diameter</b>	NPS 42 (1,067 mm)
<b>Minimum Wall Thickness</b>	Line pipe 13.7 mm Heavy wall pipe 18.3 mm
<b>Pipe Material</b>	Steel
<b>Pipe Material Standard</b>	CSA Z245.1
<b>Pipe Grade</b>	483 MPa
<b>External Coating Type</b>	Fusion Bond Epoxy
<b>Maximum Operating Pressure</b>	9930 kPa
<b>Product</b>	Non-sour natural gas

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Groundbirch Compressor Station

<b>Project Type</b>	New construction					
<b>Facility Type</b>	Compressor station					
<b>Location</b>	Groundbirch Compressor Station, British Columbia Legal Location - SW-35-78-16-W6M					
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Total Power Rating (MW)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 42, 36, 24	15.0, 22.5, 26.2	30.0	483	TES-PIPE-SAW and CSA Z245.1-07
<b>Product</b>	Non-sour natural gas					

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Saturn Compressor Station

<b>Project Type</b>	New construction					
<b>Facility Type</b>	Compressor station					
<b>Location</b>	Saturn Compressor Station, British Columbia Legal Location - NE-6-81-20-W6M					
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Total Power Rating (MW)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 20, 30, 36	15.9, 19.1, 22.5	2 x 15.0 = 30.0	483, 414	TES-PIPE-SAW and CSA Z245.1-07
<b>Product</b>	Non-sour natural gas					

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Aitken Creek Compressor Station

<b>Project Type</b>	New construction					
<b>Facility Type</b>	Compressor station					
<b>Location</b>	Aitken Creek Compressor Station, British Columbia Legal Location - d-23B/94-B-16					
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Total Power Rating (MW)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 20, 30, 36	15.9, 19.1, 22.5	15.0	483, 414	TES-PIPE-SAW and CSA Z245.1-07
<b>Product</b>	Non-sour natural gas					

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications - Kahta Creek North Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Kahta Creek North Receipt, British Columbia Legal Location - D-030-K/094-G-07				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 10	12.7	241	ATSM-A333 Grade 6 Seamless
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications - Kahta Creek Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Kahta Creek Receipt, British Columbia Legal Location - D-030-K/094-G-08				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 12	12.7	359	CSA Z245.1 Gr 359, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Bucking Horse River Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Bucking Horse River Receipt, British Columbia Legal Location - D-025-F/094-G-07				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 12	12.7	359	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Mason Creek Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Mason Creek Receipt, British Columbia Legal Location - D-006-G/094-G-07				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 10	12.7	241	ATSM-A333 Grade 6 Seamless
<b>Product</b>	Non-sour natural gas				



**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Beaton River Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Beaton River Receipt, British Columbia Legal Location - C-011-K/094-G-02				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 12	12.7	359	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Lily Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Lily Receipt, British Columbia Legal Location - C-011-K/094-G-03				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 12	12.7	359	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Halfway River Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Halfway River Receipt, British Columbia Legal Location - A-013-H/094-G-02				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 12	12.7	359	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Blair Creek Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Blair Creek Receipt, British Columbia Legal Location - D-081-K/094-B-16				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 16	14.3	414	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Blair Creek East Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Blair Creek East Receipt, British Columbia Legal Location - A-094-J/094-B-16				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 4	6.0	241	ATSM-A333 Grade 6 Seamless
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Aitken Creek West Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Aitken Creek West Receipt, British Columbia Legal Location - D-057-I/094-B-16				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 10	12.7	241	ATSM-A333 Grade 6 Seamless
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Aitken Creek East Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Aitken Creek East Receipt, British Columbia Legal Location - B-044-L/094-A-13				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 10	12.7	241	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications - Aitken Creek Interconnect Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Aitken Creek Interconnect, British Columbia Legal Location - B-044-L/094-A-14				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 24	15.9	414	TES PIPE-SAW or Vendor Standard
<b>Product</b>	Non-sour natural gas				



**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications - Gundy Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Gundy Receipt, British Columbia Legal Location - B-044-L/094-A-15				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 12	12.7	359	CSA Z245.1, Cat. II
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications - Kobes Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Kobes Receipt, British Columbia Legal Location - D-082-A/094-B-16				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 10	12.7	241	ATSM-A333 Grade 6 Seamless
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications - Altares Receipt Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Altares Receipt, British Columbia Legal Location - B-054-J/094-B-09				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 10	12.7	241	ATSM-A333 Grade 6 Seamless
<b>Product</b>	Non-sour natural gas				

**SCHEDULE A**  
**CERTIFICATE GC-125**

Facilities Specifications – Mackie Creek Interconnection Meter Station

<b>Project Type</b>	New construction				
<b>Facility Type</b>	Metering station				
<b>Location</b>	Mackie Creek Interconnection, British Columbia Legal Location - B-079-H/094-B-08				
<b>Description</b>	<b>MOP (kPa)</b>	<b>Pipe Diameter (mm)</b>	<b>Wall Thickness (mm)</b>	<b>Pipe Material Grade (MPa)</b>	<b>Pipe Material Standard</b>
	9930	NPS 36	19.7	483	TES PIPE-SAW or Vendor Standard
<b>Product</b>	Non-sour natural gas				