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Filed Electronically

Canada Energy Regulator  
Suite 210, 517 Tenth Avenue SW  
Calgary, AB T2R 0A8

**Attention: Mr. Jean-Denis Charlebois, Secretary of the Commission**

Dear Mr. Charlebois:

**Re: NOVA Gas Transmission Ltd. (NGTL)  
Leismer Ethane Extraction Plant Tie-in (Project)  
Order XG-009-2022 (Order)  
Condition 4: Technical Specification Updates  
File No.: OF-Fac-Gas-N081-2022-03 02**

On October 3, 2022, the Canada Energy Regulator (CER or Commission) issued the Order approving the construction and operation of the Project.<sup>1</sup> Pursuant to Condition 4 of the Order, NGTL provides the following technical specification updates, shown on the attached blacklined Attachment 1, and Schedule A of the Order.

If the CER requires additional information with respect to this filing, please contact me by phone at (403) 920-7396 or by email at [jennifer\\_godecki@tcenergy.com](mailto:jennifer_godecki@tcenergy.com).

Yours truly,  
**NOVA Gas Transmission Ltd.**

*Original signed by*

Jennifer Godecki  
Regulatory Project Manager  
Regulatory Facilities, Canadian Natural Gas Pipelines

Enclosures

cc: Rachel Savoie, Canada Energy Regulator

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<sup>1</sup> CER Filing ID: C21194.

**Pipeline Technical Description**

Size	Locations	Pipe Grade (MPa)	Wall Thickness (WT) (mm)	Estimated Length (m)
NPS 30 (762.00 mm)	Assembly Pipe	CSA Z245.1 Grade 483 CAT II Submerge Arch Weld (SAW), M45C	16.4	<del>110</del> <u>124.5</u>
<del>NPS 12</del> <del>(323.85 mm)</del> NPS 30 (762.00 mm)	Assembly Pipe	CSA Z245.1 Grade 483 CAT II Submerge Arch Weld (SAW), M45C <del>ASTM A333 Grade 6, Seamless, M45C</del>	<u>10.5 (transitioned from 16.4mm for tie-in)</u> <del>2.7</del>	<del>6</del> <u>0.5</u>
<del>NPS 12</del> <del>(323.85 mm)</del>	<del>Assembly Pipe</del>	<del>ASTM A333 Grade 6, Seamless, M45C</del>	<del>12.7</del>	<del>4.8</del>
NPS 1.5 (38.1 mm)	Assembly Pipe	ASTM A333 Grade 6, Seamless, M45C	<u>5.08</u>	<u>10.4</u>
Pipeline Design Specification	Pipe Material Selection will be compliant to CSA Z662-19, as well as per TC Energy specification TEN-MA-STD-GL			
MOP	9,930 kPa			
Length	Approximately <del>116 m</del> <u>125 m</u>			
Project Start and End Locations	The Project is located at NE 33-080-13 W4M			
Burial Depth	Depth of cover will be in accordance with CSA Z662-19, and relevant TC Energy specifications Minimum depth of cover will be between 0.9m and 1.2m			
Coatings	External Coating: <ul style="list-style-type: none"> <li>Above grade piping and assemblies: painted as per TC Energy specification TES-CO-PAINT-GL (e.g., epoxy primer with polyurethane topcoat or zinc-rich primer with polysiloxane topcoat)</li> <li>Below grade assemblies: liquid coating as per TC Energy specification TES-CO-EPU-GL (e.g., 100% solids epoxy). Specification meets or exceeds CSA Z245.30</li> <li>Below grade piping: fusion bond epoxy as per TC Energy specification TES-CO-FBE-GL or liquid coating as per TC Energy specification TES-CO-EPU-GL (e.g., Specifications meet or exceeds CSA Z245.20 and CSA Z245.30, respectively)</li> </ul>			
Product Carried	The proposed facilities will transport sweet natural gas that meets NGTL's Gas Quality Specifications outlined in its Tariff, General Terms and Conditions, Article 3, Gas Quality.			
Description of Corrosion Control Elements	Cathodic protection will be provided by existing and/or new NGTL facilities. Cathodic protection test stations will also be installed, where required.			
Crossings	<ul style="list-style-type: none"> <li>NGTL NPS 30 Leige Lateral Loop No. 2</li> <li>NGTL NPS 16 Leismer Lateral</li> </ul>			
Valve Sites	The Project will include three large-diameter valve assemblies: <ul style="list-style-type: none"> <li>Valve Assembly 1 (Tag #: LG10-2-RT): Above-ground NPS 30 Receiver Isolation Valve</li> <li>Valve Assembly 2 (Tag #: LG10-2-MU): Above-ground NPS 30 Supply Tie-In Valve</li> <li>Valve Assembly 3 (Tag #: LKX35-0-MD): Above-ground NPS 30 Return Tie-In Valve</li> </ul>			

Materials Grades for Valves, Flanges, Fittings and Assembly Pipe	The selection of materials for valves, fittings, and assembly piping will also be in accordance with CSA and TC Energy specification TEN-MA-STD-GL. Fittings will also be in accordance with TC Energy specification TES-MA-FITG-GL where applicable to incorporate additional TC Energy requirements for large diameter fittings.
Pressure Control (PC)/Overpressure Protection (OPP)	Pressure control (PC) and overpressure protection (OPP) are not included in the design of the Project as PC and OPP are installed upstream of the Project by the upstream connecting pipeline operator, and the pipeline system as a whole is designed in compliance with CSA Z662-19, Clause 4.18: Pressure Control and Overpressure Protection of Piping, to protect the NGTL System against overpressure incidents. The Project does not introduce a new source of pressure capable of creating overpressure conditions. There are three existing sources of upstream pressure for this Project: compressor stations, pipeline specification breaks (i.e., a point at which a single pipeline's MOP changes or a point at which intersecting pipelines have an unequal MOP) and a customer ethane extraction plant. For compressor stations, PC and OPP include maintaining speed control of compression units, compressor suction and discharge valves. For pipeline specification breaks, PC and OPP include control valves, relief valves and high-pressure slam shut valves. For customer facilities, NGTL requires each upstream connecting pipeline operator to ensure that the design, operation, maintenance and upgrading of the operator's OPP complies with all applicable legislation and standards, including the OPR and CSA Z662-19, clauses 4.18 and 10.9.5, to protect the NGTL System against upstream overpressure incidents. NGTL ensures that a reliable OPP system conforming to CSA Z662-19 is in place before new facilities are opened for service. NGTL also has an initial and annual OPP verification process to validate that each upstream connecting pipeline operator designs, installs, inspects, assesses and tests the PC and OPP systems in accordance with CSA Z662-19.
Note: Material grade meets or exceeds minimum requirements. Other CSA Z662-19 compliant or higher grades of steel could be used depending on material availability and in accordance with standard TEN-MA-STD-GL. All values, including but not limited to pressure, length, grade, coating, and wall thickness, are based on preliminary design and might be subject to change. Design is at a preliminary stage and parameters could change as design is refined.	

**Revised SCHEDULE A**

**Order XG-0009-2022**

**NOVA Gas Transmission Ltd. (NGTL)**  
**Application dated 26 April 2022 assessed**  
**pursuant to section 214 of the *Canadian Energy Regulator Act***

**Application for Leismer Ethane Extraction Plant Tie-in Project**  
**File OF-Face-Gas-N081-2022-03 02**

**Pipeline Specifications – Leismer Ethane Extraction Plant Tie-in**

<b>Project Type</b>	Modifications			
<b>Location (endpoints)</b>	At Leismer Ethane Extraction Plant			
<b>Approximate Length</b>	<del>110 m</del> 124.5 m	<del>6 m</del> 4.8 m	0.5 m	10.4 m
<b>Outside Diameter</b>	762 mm (NPS 30)	323.85 mm (NPS 12)	762 mm (NPS 30)	38.1 mm (NPS 1.5)
<b>Wall Thickness (minimum)</b>	16.4 mm	12.7 mm	10.5 (transitioned from 16.4 mm for tie-in)	5.08
<b>Pipe Material</b>	Carbon steel			
<b>Pipe Material Standard and Grade</b>	CSA Z245.1 Grade 483 CAT II Submerge Arch Weld (SAW) M45C	ASTM A333 Grade 6 Seamless M45C	CSA Z245.1 Grade 483 CAT II Submerge Arch Weld (SAW) M45C	ASTM A333 Grade 6 Seamless M45C
<b>External Coating Type</b>	Above Ground: Paint Below Grade: Liquid Epoxy Coating and/or Fusion Bond Epoxy			
<b>Maximum Operating Pressure</b>	9 930 kPa			
<b>Product</b>	Non-Sour Natural Gas			