



Enbridge Gas Inc.
50 Keil Drive North
Chatham, Ontario, Canada
N7M 5M1

July 15, 2019

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Imperial Oil Limited
Application for Leave to Construct - Waterdown to Finch Project
Ontario Energy Board File No. EB-2019-0007**

Enbridge Gas Inc. hereby submits interrogatories on the evidence of Imperial Oil Limited pursuant to Procedural Order No. 2 to the above noted proceeding.

Should you have any questions on this submission, please do not hesitate to contact me.

Yours truly,

[Original Signed By]

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Encl.

c.c. (email only):

Jessie Malone, Imperial Oil	Ian Laing, Imperial Oil
Warren Woodhurst, Imperial Oil	Robert Anderson, Bell Mobility
Alex Greco, CME	Mathew Wilson, CME
Justyna Hidalgo, City of Hamilton	Guy Paparella, City of Hamilton
Auryn Soares, City of Mississauga	Patrick Murphy, City of Mississauga
Nicholas Rolfe, City of Toronto	Katherine Frankl, City of Toronto
John Kelly, City of Toronto	Atul Sharma, GTAA
Linda Gibbons, Hydro One Networks	
Peter Virtanen	Tim Virtanen
Tony Oliveri, Regional Municipality of Halton	
Meredith Baker, Regional Municipality of Halton	
Rachel Godley, Regional Municipality of Peel	

ENBRIDGE GAS INC.
INTERROGATORIES TO IMPERIAL OIL LIMITED

1. **Reference:** Imperial Oil Application, Exhibit A, Part 3, Paragraph 4
“Pipelines owned by other operators inside the ROW will continue to operate without disruption as crossing agreements and safety buffers will be put in-place.”

Questions:

- (a) Please provide details of and assessment forms all equipment that may cross Enbridge pipe or will be working in the Enbridge easement, especially the Vermeer tracked equipment being used to complete the Horizontal Directional Drills.
- (b) Please provide all detailed construction drawings as per Schedule C standards (attached).
- (c) Please provide details of projected construction duration and timing, and clarify if there will be any evening construction activities.

SCHEDULE C

Plan Showing Approved Crossing

A drawing of each crossing shall be prepared in accordance with sub-sections A, B and D below. The drawing shall show the location and dimensions of the crossing and the clearance between the lowest catenary and the surface of the ground within the pipeline right-of-way or its projected limits.

Standard Drawing Requirements

Note: ALL VIEWS TO BE COMBINED IN ONE DRAWING.

A. *PLAN VIEW*

Scale

- in metric - scale of 1:500 or at a scale which clearly defines all details of the crossing.

Dimensions

- distance along the Union Pipeline easement to the crossing from a definable legal limit; ie. lot line, river, road allowance limit, etc.
- width of the Union Pipeline easement to one-tenth (0.0) of a metre.
- location of the Union Pipeline(s) within the easement to one-tenth (0.0) of a meter at right angles to the pipeline easement.
- angle of the crossing (measured to the Union Pipeline easement)
- show the width of the utility easement(s) to one tenth (0.0) of a metre.
- width of streets in vicinity of crossing.

Note: Parallel Utility easements shall not encroach on the Union Pipeline easement without the written consent of Union.

Identify

- legal description of the crossing location; ie. lot, section, concession, township, town, village, etc.

- all additional Union Pipeline appurtenances; ie' concrete slabs, weights, pipeline markers, etc.
- north arrow
- scale

B. *SECTION VIEW*

The section view is to be along the proposed utility that crosses the Union Pipeline.

Scale

- in metric, vertical 1:100, horizontal 1:200 or to a scale that clearly identifies all details of the crossing.
- Dimensions
 - depth of the Union Pipeline(s) to one-tenth (0.0) of a metre
 - Vertical distance of the proposed utility below grade to one-tenth (0.0) of a metre
 - clearance to the Union Pipeline
 - diameter of each Union Pipeline to be crossed
 - easement or right-of-way limits

Identify

- if elevations are assumed, then reference the point of the assumed datum
- distance of the pipeline(s) to the Union Pipeline easement limits
- ground surface profile for 20m on either side of crossing
- scale

C. *PROFILE VIEW*

The profile view is to be along the Union Pipeline and is only required if the encroachment is on the Union Pipeline easement for a definable distance; ie. parallel encroachments such as roads and any grading of the easement, etc.

Scale

- in metric, vertical 1:100, horizontal 1:200 or to a scale that clearly identifies all details of the crossing

Dimensions

- depth of the Union Pipeline(s) to one-tenth (0.0) of a metre
- depth of the proposed utility to one-tenth (0.0) of a metre
- clearance to the Union Pipeline
- diameter of each Union Pipeline to be crossed
- easement or right-of-way limits

Identify

- if elevations are assumed, then reference the point of the assumed datum
- distance of the pipeline(s) to the Union Pipeline easement limits to one-tenth (0.0) of a meter
- ground surface profile for 20m on either side of crossing
- scale
- existing Union Pipeline markers

D. *LOCATION PLAN VIEW*

Scale

- in metric, scale of 1:12000 or to a scale that clearly identifies the location

Dimensions

- distance to the nearest town or major geographic feature to 0.1 of a kilometre

Identify

- township, town, village, city, county, regional municipality, etc.
- lot, concession, street, highway, road, etc.
- north arrow

TITLE BLOCK

Identify

- name of the Applicant and the name of the engineering company who compiled the drawing (where applicable)
- drawing number and the date of the drawing
- revision dates (if applicable)
- signature of the applicant and the engineering company
- legal description of the crossing location
- description of the utility
- date of the survey

ADDITIONAL INFORMATION

Identify

- all specifications of the utility, ie. diameter, wall thickness, material to be conveyed, minimum yield strength, operating pressure, field test pressure, mill test pressure, materials comprising the utility, protective devices to be installed and the proper method of installation.
- show a note referencing compliance with the applicable CSA standards, Union Gas Limited's Specifications for Pipeline Crossings and the National Energy Board Pipeline Crossing Regulations.
- date of the proposed crossing