

Enbridge Pipelines Inc.

Project Name: Line 7 Capacity Expansion Project

Submission Information

Submission Title: Line 7 Capacity Expansion Project **Submission Date:** 05/06/2013
Filer: Mikki Rizvi - Enbridge Pipelines Inc. **Role:** Applicant
Form Version: 7.00

Applicant Information

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This application is pursuant to the following sections of the NEB Act and OPR Regulations:

Sections of the NEB Act that apply:

Section 45 - deviation, change or alteration of facilities

Section 48 - exemption from OPR



Section 58 - facilities exemption order

Exemptions / Relief Requested:

Enbridge Pipelines Inc. ("Enbridge") submits that any potential adverse environmental or socio-economic effects are not likely significant and are outweighed by the benefits of the Line 7 Capacity Expansion Project (the "Project"). Furthermore, these effects will not be a cause for public concern. Therefore, Enbridge requests exemption from the provisions of paragraph 30(1)(b) and sections 31 and 47 of the NEB Act in regards to the construction of the Project.

OPR-99 Regulations that apply:

OPR 43 - increase in MOP

OPR 44 - deactivation of facilities

OPR 45 - reactivation of facilities

Project Description

Project Name: Line 7 Capacity Expansion Project
Proposed Construction Date: 02/12/2013
Estimated Cost: \$15,100,000
Project Purpose: Demand by Eastern refineries for North American light crude oil, from areas such as the Western Canadian Sedimentary Basin and the Bakken Region, continues to increase. The Project, which will expand Line 7's annual capacity from 147,000 barrels per day ("bpd") to 180,000 bpd, will ensure that more domestic crude oil capacity is available to those refineries utilizing Line 7.

The Line 7 Capacity Expansion Project will increase the capacity of Line 7 from 147,000 bpd to 180,000 bpd through the following modifications to the existing Enbridge facilities below.

Sarnia Terminal:

- Install two new DRA skids
- Install one new batch detection skid (25 m2)
- Install one new Pressure Control Valve ("PCV") and actuator
- Modify PCV piping and remove PCV bypass piping and valves
- Install 50 kVA backup diesel generator
- Upgrade existing control systems
- Install new leak detection instruments
- Civil and structural work as required

Keyser Station:

- Install one new 1865 kW (2500 HP) pump and motor unit
- Install new unit piping and valves
- Install two new DRA skids
- Review existing PCV and install new PCV and actuator, if required
- Modify PCV piping and remove PCV bypass piping and valves
- Install 50 kVA backup diesel generator
- Install pump shelter (300 m2)
- Install new leak detection instruments
- Upgrade backup communications equipment
- Civil and structural work as required

Bryanston Station:

- Install one new 1865 kW (2500 HP) pump and motor unit
- Install new unit piping and valves
- Install new arc-resistant switchgear
- Install two new DRA skids
- Install new PCV and actuator
- Modify PCV piping and remove PCV bypass piping and valves
- Install 50 kVA backup diesel generator
- Upgrade existing control systems
- Replace existing below grade 1000 gallon sump tank with one new below grade 5000 gallon sump tank and install associated pumps, instrumentation and piping
- Install new leak detection instruments
- Upgrade backup communications equipment
- Civil and structural work as required

Wolverton (RSV Site):

- Install new pressure transmitter
- Install two new programmable logic controllers
- Civil and structural work as required

KP 2989 (MP 1857):

- Install one new batch detection skid (25 m2)
- Civil and structural work as required

North Westover Station:

- Install one new batch detection skid (25 m2)
- Install new leak detection instruments
- Civil and structural work as required

Westover Terminal:

- Install one new PCV and actuator
- Modify PCV piping and remove PCV bypass piping and valves
- Civil and structural work as required

Technical Description

Proposed Facilities:

- ✓ Pipeline
- Pigging
- ✓ Compressor
- Metering Station
- ✓ Tank

Integrity Management - Program Elements to be Employed on the Facility:

The Project facilities will be managed according to Enbridge's Integrity Management Program Guideline for Management of Corrosion of Facility Piping (February 2008) currently on file with the Board.

Construction & Inspection - Construction Techniques to be Employed:

All work will be completed within existing Enbridge facilities. All ground disturbances will be done in accordance with all respective standards and regulations. On-site inspection personnel will monitor all construction activities to ensure all design measures are properly implemented throughout the construction phase of the Project. Construction techniques to be employed will be in accordance with Enbridge's Specification for Facility Construction (Canada), CSA Z662-11 and the National Energy Board Onshore Pipeline Regulations.

Construction & Inspection - Inspection Techniques and Relative Frequency of Inspection to be Employed:

A site inspector will be on-site during construction, testing and commissioning of the Project. Construction inspection will be performed in accordance with Enbridge's Field Inspection Procedure Guide for Station Construction.

Construction & Inspection - Major Milestones for the Project Schedule:

The Project is targeted to be in service by late Q3 2014. To meet this in-service date, construction activities are scheduled to commence in late Q4 2013, subject to regulatory approval.

Document Attachments:

Filename	Document Name	Language
Engineering Matters.pdf	Engineering Matters	English
Abandonment Matters.pdf	Abandonment Matters	English
Document of Understanding (DOU).pdf	Document of Understanding	English
Plot Plans.pdf	Plot Plans	English
Technical Description Chart.pdf	Technical Description	English

Location

Document Attachments:

Filename	DocumentName	Language
Aerial and Regional Maps.pdf	Aerial and Regional View Maps	English

Manuals

Title	Revision / Publication	On File
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Comments

Applicant Self Assessment of Risk**Aboriginal Matters**

- ✓ A1 The Project does not traverse any Indian Reserve Land.
- A2 The Project traverses claimed Aboriginal Traditional Territory and/or Crown Lands.
This statement applies to the Project.
✓ This statement does not apply to the Project.
- A3 Consultation with Aboriginal Groups. Please check one of the following:
There are no potentially affected Aboriginal groups.
✓ All potentially affected Aboriginal groups have been consulted and there are no outstanding concerns.
All potentially affected Aboriginal groups have been consulted and there are still some outstanding concerns.
All potentially affected Aboriginal groups have not been consulted.
- A4 Notice to Aboriginal groups of the Project Application to the Board. Please check one the following:
✓ The applicant can demonstrate that it has provided to all potentially affected Aboriginal groups all of the following:
Notice of their intention to file an application to the Board for approval of the project;
Notice of the anticipated date of filing;
Notice to all Aboriginal groups that they can raise outstanding concerns regarding the project with the Board within 14 days of the Board's receipt of the application.
All potentially affected Aboriginal groups have not received one or more of the following:
Notice of their intention to file an application to the Board for approval of the project;
Notice of the actual date of filing;
Notice to all Aboriginal groups that they can raise outstanding concerns regarding the project with the Board within 14 days of the Board's receipt of the application.
There are no potentially affected Aboriginal groups to serve notice upon.

Rationale:**Consultation**

- ✓ C1 The applicant can demonstrate that it has provided, at least 14 days prior to filing its application with the Board, notice to all potentially affected parties of its intention to file an application to the Board for approval of the project.
- ✓ C2 The applicant can demonstrate that it has provided, at least 14 days prior to filing its application with the Board, notice to all potentially affected parties of how they can raise outstanding application-related concerns with the Board in a timely manner.
- C3 Landowners and/or Tenants are potentially affected where the project footprint is on their property or negotiated lands agreement is required.
There are no potentially affected landowners and/or tenants.
✓ All potentially affected landowners and/or tenants have been consulted and there are no outstanding concerns.

- All potentially affected landowners and/or tenants have been consulted and there are still some outstanding concerns.
- All potentially affected landowners and/or tenants have not been consulted.
- C4 Nearby residents are potentially affected if they may see, hear or smell the facility.
- There are no potentially affected nearby residents.
- ✓ All potentially affected nearby residents have been consulted and there are no outstanding concerns.
- All potentially affected nearby residents have been consulted and there are still some outstanding concerns.
- All potentially affected nearby residents have not been consulted.
- C5 Land users e.g. trappers, guide outfitters, recreational users, etc.
- ✓ There are no potentially affected land users.
- All potentially affected land users have been consulted and there are no outstanding concerns.
- All potentially affected land users have been consulted and there are still some outstanding concerns.
- All potentially affected land users have not been consulted.
- C6 Municipalities
- There are no potentially affected Municipalities.
- ✓ All potentially affected Municipalities have been consulted and there are no outstanding concerns.
- All potentially affected Municipalities have been consulted and there are still some outstanding concerns.
- All potentially affected Municipalities have not been consulted.
- C7 Provincial and Territorial Departments e.g. resource development, environment, heritage resources, etc.
- There are no potentially affected Provincial departments.
- ✓ All potentially affected Provincial departments have been consulted and there are no outstanding concerns.
- All potentially affected Provincial departments have been consulted and there are still some outstanding concerns.
- All potentially affected Provincial departments have not been consulted.
- C8 Federal Departments e.g. Fisheries & Oceans Canada, Transport Canada, Environment Canada, Indian & Northern Affairs, etc.
- There are no potentially affected Federal departments.
- ✓ All potentially affected Federal departments have been consulted and there are no outstanding concerns.
- All potentially affected Federal departments have been consulted and there are still some outstanding concerns.
- All potentially affected Federal departments have not been consulted.
- C9 Non-Government Organizations (NGOs)

- ✓ There are no potentially affected NGOs.

All potentially affected NGOs have been consulted and there are no outstanding concerns.

All potentially affected NGOs have been consulted and there are still some outstanding concerns.

All potentially affected NGOs have not been consulted.

- ✓ C10 There are no other potentially affected people or parties in addition to those listed above.

Rationale:

C1 / C2: Enbridge distributed a notification package to potentially affected landowners and nearby residents on May 1, 2013. The notification package included a Project overview letter, proposed Project map and the following National Energy Board (NEB) documents: "A Proposed Pipeline or Power Line Project: What You Need to Know" and "Living and Working Near Pipelines".

C3: There is one directly affected landowner at Project site KP 2989 (MP 1857) who received the Project notification package. Enbridge will be constructing a small new facility on this landowner's privately owned land for the Project. The landowner entered agreements with Enbridge for the facility construction and required temporary workspace in November, 2012.

C4: To determine potentially affected nearby residents, Enbridge based its consultation radius on which Project work would have the greatest impact on what a stakeholder potentially sees, hears or smells during construction and normal operation of the Project. Using this parameter, Enbridge identified stakeholders within 250 m of the Keyser and Bryanston Stations and notified them with the notification package. Because these two stations will have a pump installed and a pump shelter constructed and based on the stations' locations in rural Ontario, these two Project sites will have the most noticeable increase in activity.

Enbridge also delivered notification packages to nearby residents within 250 m of the Project Site KP 2989 (MP 1857) as work happening at this Site is on privately owned land and the area is not marked as Enbridge property (as is the case with the other Project Sites). Townships, counties and municipalities within which the Line 7 pipeline is located also received the notification package.

Enbridge determined that the scope and location of the Project work at the remaining Project facilities are not anticipated to affect nearby residents as the activities are of a small scale, will take place entirely within the boundaries of Enbridge's facilities and will likely be indistinguishable from the facilities' day-to-day operations.

To date, there have been no concerns raised through notification. Engagement with all Project stakeholders will be ongoing until the Project is in-service.

C7: The Ministry of Natural Resources has been notified of the Project to identify any additional Species at Risk or mitigation measures not already included in the Environmental and Socio-Economic Impact Assessment. No response has been received to date. The Ministry of Environment will be consulted if water taking is required in excess of 50,000 litres per day. No other potentially affected provincial departments were identified or consulted for the Project.

C8: Environment Canada was notified of the Project to identify any additional Species at Risk or mitigation measures for Species at Risk. No response has been received to date. Enbridge will consult with Fisheries and Oceans Canada (DFO) if hydrostatic test water will be released to fish bearing habitat at any of the Project Sites. If hydrostatic test water is released onsite or to a municipal source, DFO will not be consulted. No other potentially affected federal departments were identified or consulted for the Project.

Economics

- ✓ EC1 The applicant has undertaken an assessment to determine that there is or there will be adequate supply to support the use of the pipeline.
- ✓ EC2 The applicant has undertaken an assessment to determine that the volumes to be transported are appropriate for the applied-for facilities and the facilities are likely to be utilized at a reasonable level over their economic life.

- ✓ EC3 The applicant has undertaken an assessment to determine that adequate markets exist for the incremental volumes that would be available to the marketplace as a result of the applied-for facilities.
- ✓ EC4 The applicant has undertaken an assessment to determine it has the ability to finance the proposed facilities.
- EC5 Third party shippers are potentially affected if the Project will have an impact on tolls, access or service. Select the option that best applies to the Project.
The pipeline does not have any third party shippers.
- ✓ All potentially affected third party shippers have been notified of the Project and do not have any outstanding concerns.
All potentially affected third party shippers have been notified of the Project and there are still some outstanding concerns.
All potentially affected third party shippers have not been notified.
- EC6 Commercial third parties can include commodity suppliers, end users and other pipelines. Select the option that best applies to the Project.
There are no potentially affected commercial third parties.
- ✓ All potentially affected commercial third parties have been notified and there are no outstanding concerns.
All potentially affected commercial third parties have been notified and there are still some outstanding concerns.
All potentially affected commercial third parties have not been notified.

Rationale:**Emergency Management**

- ✓ EM1 The applicant is aware and will follow the NEB letter dated 24 April 2002 entitled Security and Emergency Preparedness and Response Programs.
- ✓ EM2 The applicant has developed an Emergency Preparedness and Response program that includes this project.

Rationale:**Engineering**

- ✓ E1 The Project will comply with the most recent version of all applicable acts, codes and regulations, including CSA Z662 Oil and Gas Pipeline Systems and the Onshore Pipeline Regulations 1999 (OPR-99).
- ✓ E2 The Project employs conventional materials, design and construction approach and does not involve new or unproven technology.
- ✓ E3-1 The Project does not involve the reuse of pipeline materials, reactivation of an existing pipeline or flow reversal.
- ✓ E3-2 The Project does not involve a change in service fluid.
- ✓ E3-3 The Project does not involve an increased MOP to an existing pipeline.

- ✓ E3-4 The Project does not involve an increased capacity for purpose of transporting hydrogen sulphide products.
- ✓ E5 The Project does not involve the use of any substance other than water for facility pressure testing (including air or alternative integrity verification measures).
- ✓ E6 Project facilities will not be used for sour service.
- ✓ E7 Project facilities are not designed to transport CO₂, slurry or commodities.
- ✓ E8 Project facilities do not traverse geotechnically sensitive terrain (continuous or discontinuous permafrost and areas of high probability ground movement).
- ✓ E9 Project facilities are designated Class 1 Location under CSA Z662-11.

Rationale:**Environment**

- EV1.0 The Project is on the Canadian Environmental Assessment Act exclusion list. Note: This criterion references the Exclusion List Regulations, 2007 under the former Canadian Environmental Assessment Act, which has now been repealed. The criteria and guidance provided in the Online Application System are currently under review and will be updated. For now, please continue to consult the Exclusion List Regulations, 2007 to determine whether this criterion has been met and apply all other criteria as they are stated.
- EV1.1 The Project will not extend beyond the existing approved property limits or right-of-way; no new land will be acquired for the construction of the Project.
- EV1.2 The Project will not result in an increase in air airbourne emissions or noise during the operation of the facility.
- EV1.3 The Project will not be located within 30 m of a water body.
- ✓ EV1.4 The Project does not take place within a national park.
- ✓ EV2 The Applicant has identified and documented potential environmental effects based on conventionally accepted methodologies.
- ✓ EV3 The Project does not take place within a provincially or federally designated environmentally sensitive area.
- ✓ EV4 There are no schedule 1 Species at Risk Act species (plant and/or wildlife) or habitat that will be impacted by the Project.
- ✓ EV5 The Project will not impact wetlands.
- ✓ EV6 The Applicant has consulted with relevant federal and provincial departments/ agencies and there are no unresolved issues.
- ✓ EV7 The Applicant confirms that there are not any potential environmental effects that involve the use of non-standard methodology and/or require the use of non-standard mitigation to resolve.
- ✓ EV8 The Applicant commits to having and implementing an Environmental Protection Plan, or equivalent, onsite.
- ✓ EV9 There are no proposed chemical/contaminant liquid or solid discharges from the operation of the Project.
- ✓ EV10 The Project sites can be reclaimed through the use of standard cost-effective mitigation measures.

Rationale:

EV1.1: The Project will take place within existing, previously disturbed facilities and the Enbridge ROW. Temporary workspace will be required in an adjacent agricultural field at one Project Site (batch detection site KP 2989). With the implementation of mitigation measures, no adverse effects are anticipated.

EV1.2: Based on an Environmental Noise Assessment (ESEIA Appendix C) conducted for the Project, an increase in noise emissions is anticipated at three Project Sites: Sarnia Terminal, Bryanston Station, and Keyser Station. However, the predicted increases are anticipated to be within the applicable noise guideline limits and no additional mitigation measures are required. As such, no adverse effects are anticipated.

EV1.3: The Project will take place within 30 m of a Provincially Significant Wetland (PSW) at Westover Terminal and within 30 m of a watercourse at Bryanston Station and Sarnia Terminal. Works will be restricted to the fenced-in areas. Mitigation measures will be implemented as per Table D-1 of the Environmental and Socio-economic Impact Assessment (ESEIA). No impacts are anticipated to the waterbodies after the implementation of mitigation measures.

Lands

L1 Select the option which describes the Project:

✔ No new land rights need to be acquired for the Project; or

The lands acquisition process for the Project will comply with the applicable sections of the National Energy Board Act, including sections 86 and 87.

✔ L2 The Project can be described by one or more of the following statements:

The Project is entirely on Crown land.

The purpose of the Project is to resolve a landowner complaint.

No new permanent land rights are required for the Project (either for new footprint or for new/modified rights over existing footprint), and there are no outstanding concerns related to the Project remaining with any landowners and/or tenants within the Project footprint.

New permanent land rights are required for the Project (either for new footprint or for new/modified rights over existing footprint), there are no outstanding concerns related to the Project remaining with any landowners and/or tenants within the Project footprint, and all such land rights have been successfully acquired through mutually negotiated agreements prior to completing this form.

Rationale:

L2: All station and terminal modifications required for the Project will occur within existing site boundaries on lands owned by Enbridge. No new permanent land rights, including new footprint or new or modified rights over existing footprint are required for the Project. Temporary workspace (approximately 0.33 ha in size) will be required to construct a new batch detection skid along the Line 7 ROW at KP 2989 (MP 1857). Enbridge has entered an agreement for this temporary workspace with the landowner.

Security

✔ Sec1 The applicant is aware of and will follow the Proposed Regulatory Change (PRC) 2010-01 and CSA Z246.1-09.

✔ Sec2 The applicant has conducted and documented a security assessment for the project.

✔ Sec3 Based on the security assessment, the applicant has developed a Security Plan that is applicable to the project.

Rationale:

Sec 1 - The applicant is aware of and will follow the Proposed Regulatory Change (PRC) 2010-01 and CSA Z246.1-13.

Socio Economics

✔ S1 The Applicant has identified and documented potential socio-economic effects based on conventionally accepted methodologies and has committed to implement standard mitigative measures to address and resolve those effects.

S2 Regarding heritage resources, select the option that most closely describes the project:

The Project will be located entirely on previously disturbed land.

The applicant will obtain letter(s) of clearance with respect to heritage/archaeological resources from province(s) prior to commencement of ground clearing.

Neither of the above statements apply.

S3 During operation, the Project will not result in an increase in noise level at the fence line.

Rationale:

S3: Based on the Environmental Noise Assessment (ESEIA Appendix C) completed, the Project will result in an increase in noise levels at three Project Sites: Sarnia Terminal, Bryanston Station and Keyser Station. The predicted noise increases during Project operations at these Project Sites will be within the applicable noise guideline limits and no additional mitigation measures are required.

Document Attachments

Filename	Document Name	Language
NEB Interactions Table.pdf	NEB Interactions Table	English
ESEIA Part I.pdf	ESEIA Part I	English
ESEIA Part II.pdf	ESEIA Part II	English
Aboriginal Matters.pdf	Aboriginal Matters	English