

Enbridge Pipelines Inc.

Project Name: Line 11 Westover Segment
Replacement Project**Submission Information**

Submission Title:	Line 11 Westover Segment Replacement Project	Submission Date:	17/01/2014
Filer:	Irene Smith - Enbridge Pipelines Inc.	Role:	Applicant
Form Version:	9.00		

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 11 Westover Segment Replacement Project ("Project"). Because the application is made pursuant to Section 58, Enbridge requests exemption from the provisions of Sections 29 to 33. Note that the application herein contains an application for the decommissioning of the segment of replaced pipeline pursuant to OPR 45.1. Finally, Enbridge submits that the application is routine in nature from an engineering perspective and therefore requests exemption from Section 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 11 Westover Segment Replacement Project
Proposed Construction Date:	01/08/2014
Estimated Cost:	\$11,000,000
Project Purpose:	The Project is being undertaken as part of Enbridge's ongoing pipeline integrity management and maintenance program. Enbridge has, through the course of regular inspections, identified this segment of Line 11 for replacement.

Brief Description of Work:

Enbridge proposes replacement of an approximately 3.2 km segment of Line 11, a 508mm (20") outer diameter pipeline, from the downstream side of the Westover Station isolation valve at KP 2998 to KP 3001.50. The replacement segment of the Line 11 pipeline will be constructed and tested prior to tie-in to minimize the length of the outage time required to complete the Project.

The replacement involves three wetland areas, including two provincially significant wetlands. To mitigate the environmental impact in the wetlands, a 550m long Horizontal Directional Drill (HDD) along with a four Horizontal Directional Bores (HDB), two of 25m and two of 40m will be completed. The proposed new piping is 508mm (20") Outside Diameter with minimum 9.5 mm wall thickness. After the new Line 11 segment is commissioned, the segment of replaced pipeline will be decommissioned in place. The replaced pipeline segment will be purged and cleaned using in-line pipeline cleaning tools and nitrogen; following the purge and cleaning, welding caps will be installed and the existing cathodic protection system will be connected. The cathodic protection on the decommissioned segment of pipe will be maintained and the segment will be included in Enbridge Regional Operations annual surveys.

Given the scope of this project, the effect on Enbridge's abandonment cost estimates would be immaterial. Pursuant to the NEB's RH-2-2008 Decision, Enbridge's abandonment cost estimates will be subject to regular reviews (at least every five years) and updated accordingly. The combined impact of all of Enbridge's projects will be included in that periodic update and filing.

Technical Description**Proposed Facilities:**

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

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

The facility will be managed using the Enbridge Integrity Management Plan consisting of: routine internal inspection with in-line pipeline inspection tools, a corrosion inhibitor program as well as maintaining a properly designed and maintained cathodic protection system on the pipeline.

Construction & Inspection - Construction Techniques to be Employed:

Qualified personnel will inspect construction of the Project based on a documented inspection plan. Inspectors will monitor contractor compliance with all applicable regulations and ensure that contractual requirements are met with respect to engineering design, construction, safety and environmental protection. This will be accomplished with discipline inspectors assigned to each operation of the pipeline construction. All welds will undergo non-destructive testing by an independent third party contracted to Enbridge operation of the pipeline construction. For full details, please refer to the attached document titled "Line 11 Westover Segment Replacement Project - Construction and Inspection."

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

An Enbridge inspector will be on site during construction operation to ensure that the appropriate standards, policies and procedures are being followed. Construction inspection will be performed in accordance with Enbridge's procedures and standards. For full details, please refer to the attached document titled "Line 11 Westover Segment Replacement Project - Construction and Inspection."

Construction & Inspection - Major Milestones for the Project Schedule:

Construction Commences (pending regulatory approval) – Q3 2014

Construction Complete/Commissioning Commences – Q4 2014

In service – Q4 2014

Document Attachments:

Filename	Document Name	Language
L11 Replacement List of Manuals.pdf	L11 Replacement Manuals	English
Line11_Project Overall Map DOU FINAL.pdf	Line 11 Westover Segment Replacement Project Overall Project Map	English
Line 11 Westover Segment Replacement Project - Construction and Inspection.pdf	Line 11 Westover Segment Replacement Project - Construction and Inspection	English
Line 11 Westover Segment Replacement Project - Technical Description.pdf	Line 11 Westover Segment Replacement Project - Technical Description	English

Location**Document Attachments:**

Filename	DocumentName	Language
L11 Replacement Alignment map - 1 of 2.pdf	L11 Replacement Alignment Map - 1 of 2	English
L11 Replacement Alignment map - 2 of 2.pdf	L11 Replacement Alignment Map - 2 of 2	English
Line11_Project Overall Map DOU FINAL.pdf	Line 11 Westover Segment Replacement Project - Overall Project Map	English

Manuals

Title	Revision / Publication	On File
L11 Replacement Manuals	29/11/2012	yes

Comments List of applicable Enbridge Manuals attached as filename "L 11 Replacement Manuals." All are on file with the NEB.

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 or waterway users e.g. trappers, guide outfitters, recreational users, navigation user groups, etc.
- ✔ There are no potentially affected land or waterway users .
- All potentially affected land or waterway users have been consulted and there are no outstanding concerns.
- All potentially affected land or waterway users have been consulted and there are still some outstanding concerns.
- All potentially affected land or waterway 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 and Oceans 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:

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:

EC5; EC6: The Line 11 Westover Segment Replacement Project is a maintenance project. In that respect, there will be no impacts to tolls. Because the existing Line 11 will continue operations during the construction of the replacement pipeline, there is not expected to be any significant impact to access or service to third party shippers or commercial third parties. A short outage will occur while the new pipeline is tied in to the existing line at KP 3001.5. This outage will occur prior to the commissioning of the new line, expected in the fourth quarter of 2014. Once timing of this outage is confirmed, all third party shippers and commercial third parties will be notified in advance.

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:

E9: A Project Class Location Report and Map are attached to support the filing requirements.

Environment

- EV1.0 The proposed project involves an activity listed in the Canadian Environmental Assessment Act , 2012, Regulations Designating Physical Activities . NOTE: If the proposed project involves an activity designated under the Regulations Designating Physical Activities , the Online Application System cannot be used to prepare and file your application. Please prepare and file your application using the Board's electronic document submission tool (<http://www.neb-one.gc.ca/clf-nsi/rthnb/rgltrydcmnt/sbmtdcmntslctrnclly-eng.html>). If you have questions about this process, please contact the NEB at 403-292-4800 and ask for the Applications Business Unit Administrator who can put you in touch with the appropriate Director .
- 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:**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: Enbridge is in the process of acquiring through mutually negotiated agreements new permanent right-of-way. Prior to commencing construction, Enbridge will obtain all necessary land rights.

Security

- ✓ Sec1 The project will comply with the most recent version of all applicable acts, regulations, and standards, including CSA Z246.1 Security Management for Petroleum and Natural Gas Industry Systems and the National Energy Board Onshore Pipeline Regulations.
- ✓ 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:**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.
- ✓ S4 The project will not cross any navigable waterways or, if the project will cross navigable waterways, either all crossing activities will be conducted when water is not flowing (i.e., seasonally dry or frozen) or horizontal directional drilling (with geotechnical evidence of likely success) will be used for all crossings.

Rationale:

Document Attachments

Filename	Document Name	Language
L11 Westover Segment Replacement Class Location Report.pdf	Line 11 Westover Segment Replacement Project Class Location Report	English
L11 Westover Segment Replacement Class Location Map.pdf	Line 11 Westover Segment Replacement Project Class Location Map	English
Enbridge Ontario Easement Agreement NEB.pdf	Line 11 Westover Segment Replacement Project Easement Agreement sample	English
Ontario Work Space Agreement L11 FINAL.pdf	Line 11 Westover Segment Replacement Project Work Space Agreement sample	English
Section 87 Notice Line 11.pdf	Line 11 Westover Segment Replacement Project Section 87 Notice	English
Line10_Line11Replacement_Notification Letter_FINAL.pdf	Line 10 and Line 11 Segment Replacement Projects Notification letter May 2013	English
Line 10 Line 11 Westover_Project Area Map_FINAL.pdf	Line 10 and Line 11 Segment Replacement Projects Map	English
2013_159_enbridge_stakeholders_postcard_FINAL2.pdf	Line 10 and Line 11 Segment Replacement Projects Lunch Information Session invitation	English
Line 10 and 11 Lunch Presentation Invitation_FINAL.pdf	Line 10 and Line 11 Segment Replacement Projects Lunch and Learn Session invitation	English
Line 10_Line11_Decommissioning Letter_FINAL.pdf	Line 10 and Line 11 Segment Replacement Projects Decommissioning info letter	English
L10_L11 Updated Scope Notification_FINAL.pdf	Line 11 Westover Segment Replacement Project Scope Update Notification	English
Line 11 Westover_Map.pdf	Line 11 Westover Segment Replacement Project Scope Update Map	English
LINE11_UPDATED FACT SHEET_FINAL.pdf	Line 11 Westover Segment Replacement Project Updated Fact Sheet	English
Line 10-11 Westover Project Presentation.pdf	Line 10 and Line 11 Segment Replacement Projects Lunch Information Session Presentation	English
Economics EC5 EC6.pdf	Line 11 Westover Segment Replacement Project Economics EC5; EC6 rationale	English
Line 10 Line 11 Westover_Project Area Map_FINAL.pdf	Line 10 and Line 11 Segment Replacement Projects Map	English
Line 11 Westover_Map.pdf	Line 11 Westover Segment Replacement Project Scope Update Map	English
Engineering E9.pdf	Line 11 Westover Segment Replacement Project Engineering E9 Rationale	English
Lands section Line 11 Replacement FINAL.pdf	Line 11 Westover Segment Replacement Project Lands application supplement	English
LINE10_Fact Sheet_FINAL.pdf	Line 10 Replacement Fact Sheet	English
Line11_Fact Sheet_FINAL.pdf	Line 11 Westover Segment Replacement Project Fact Sheet	English
NEB Landowner Guide_Living and Working Near Pipelines.pdf	NEB Living and Working Near Pipelines	English
NEB_What You Need to Know.pdf	NEB What You Need to Know	English
Environmental Interactions Table - Enbridge -Line 11 Final Jan 2014.pdf	Line 11 Westover Segment Replacement Project Environmental Interactions Table	English
NEB pub Info for Proposed Pipeline or Powerline Project.pdf	NEB_Information for Proposed Pipeline or Powerline Projects That Do Not Involve a Hearing	English
L11 Westover Segment Replacement Stage 1 Archeological Report FINAL.pdf	Line 11 Westover Segment Replacement Project Stage Stage 1 Archaeological A	English
Line 11 aboriginal consultation summary FINAL.pdf	Line 11 Westover Segment Replacement Project Aboriginal Consultation Filing Supplement	English
Line 11 NEB Consultation Filing Supplement FINAL.pdf	Line 11 Westover Segment Replacement Project Consultation filing supplement	English

FINAL_-_Enbridge_-_Line_11_-_Report_-_16_Januar y_2014 - Section 1 of 2 with No Appendix.pdf	Line 11 Westover Segment Replacement Project ESA Part 1	English
FINAL_-_Enbridge_-_Line_11_-_Report_-_16_Januar y_2014 - Section 2 of 2 with No Appendix.pdf	Line 11 Westover Segment Replacement Project ESA Part 2	English
FINAL_-_Enbridge_-_Line_11_-_Report_-_16_Januar y_2014 - Appendix.pdf	Line 11 Westover Segment Replacement Project ESA Part 3	English