



**ORDER MO-045-2015**

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

**AND IN THE MATTER OF** Order XO-E101-003-2014 issued by the National Energy Board (Board) under file OF-Fac-Oil-E101-2012-10 02;

**AND IN THE MATTER OF** promoting the safety and security of a pipeline operated by Enbridge Pipelines Inc. (Enbridge) National Energy Board;

**BEFORE** the Board on 4 June 2015.

**WHEREAS** on 29 November 2012 Enbridge filed an application, pursuant to section 58 and Part IV of the NEB Act, for the Line 9B Reversal and Line 9 Capacity Expansion Project (Project);

**AND WHEREAS** on 10 February 2014 the Board issued Order XO-E101-003-2014, the effect of which was to permit the construction and operation of the Project;

**AND WHEREAS** on 6 February 2015 Enbridge filed its final Partial Leave to Open application with respect to the Project, Leave to Open Application No. 6, dealing with new piping and assemblies at the North Westover 'B', Hilton 'A', Cardinal 'A' and Montreal 'A' facilities, pursuant to section 47 of the Act;

**AND WHEREAS** on 18 June 2015 the Board issued Order OPSO-E101-011-2015 granting Enbridge Leave to Open the facilities set out in Enbridge's Partial Leave to Open Application No. 6;

**AND WHEREAS** the effect of Order OPSO-E101-011-2015 would be allow Enbridge to immediately operate the expanded Line 9 and Line 9B in reverse flow;

**AND WHEREAS** the Board has considered whether the pipeline would be safe to operate under these conditions;

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**IT IS ORDERED** that, pursuant subsections 13(a) and 48(1.1) of the NEB Act, and section 6 of the *National Energy Board Onshore Pipeline Regulations*:

### **Hydrostatic Tests**

1. Enbridge must conduct validation hydrostatic tests, consistent with the test specifications set out in condition 2 of this Order, at the following segments on Line 9B, and file the results for Board approval. The segments are:
  - a. valve segments number 26 and 28 (i.e.; from KP 3167.65 to KP 3185.25);
  - b. valve segments number 41 and 42 (i.e.; from KP 3354.97 to KP 3375.65); and
  - c. valve segment number 55 (i.e.; from KP 3580.71 to KP 3601.64).
2. Enbridge must test each segment to a stress level of 100% SMYS at the highest point in the segment with the test pressure held for one hour after pressure stabilization. This test must be followed by a four hour leak test at the segment MOP as specified in CSA-Z662-11.
3. Enbridge must provide the Board with 5 business days' notice before conducting additional investigative or repair work to the segments set out in condition 1, if the work commences before those segments are tested.

### **Enhanced Leak Detection**

4. In the first two years after the pipeline commences operation, Enbridge must:
  - a. conduct ground patrols, at minimum of every two weeks, of each high consequence area (as identified by Enbridge in its response dated 5 September 2013 to NEB Information Request No 4.10) to inspect for potential leaks and provide the Board with an analysis of its findings upon request;
  - b. conduct acoustic in-line inspection tool runs of Line 9 on a quarterly basis and provide those results to the Board upon request; and
  - c. update its list of high consequence areas, described in condition 4(a), to integrate future changes in the environmental components of the landscape. The list must be provided to the Board when it is updated.

### **Enhanced Crack Detection**

5. Enbridge must conduct a crack in-line inspection tool run within the first year of operation.

### **Updated Engineering Assessment**

6. Enbridge must file an updated Engineering Assessment within 18 months of placing the pipeline into service. The updated Engineering Assessment must include the results of the crack in-line inspection tool run ordered pursuant to condition 5 with a run-to-run comparison with the information obtained the Enbridge's previous in-line inspection.

7. Enbridge must also file any relevant information from observations made related to the pipeline's actual operating conditions in reverse flow.

**Commencement of Operation**

8. Enbridge must commence operation of the expanded Line 9 in reverse flow at 72% of the pipe material's specified minimum yield strength, and notify the board 10 business days before each staged increase in operating pressure.

NATIONAL ENERGY BOARD

*Original signed by*

Sheri Young  
Secretary of the Board