

# **ENBRIDGE ENERGY, LIMITED PARTNERSHIP**

## **TEN YEAR PLAN REPORT**

**2010**

Prepared for submission to the North Dakota Public Service Commission

**Section A: Existing Energy Conversion Facilities**

1. Enbridge Energy, Limited Partnership (formerly Lakehead Pipe Line Company, Limited Partnership ("Enbridge Energy") is a common carrier engaged in the transportation of liquid hydrocarbons via its pipeline system, which runs from North Dakota to New York. Enbridge Energy is not a utility, does not operate any energy conversion facilities and therefore does not file Federal Energy Regulatory Commission Form No. 67.
2. Not Applicable (See Item 1. above).

**Section B: Energy Conversion Facilities Under Construction**

1. Not Applicable.
2. Not Applicable.

**Section C: Proposed Energy Conversion Facilities on which Construction is Intended Within the Ensuing Five Years**

1. Not Applicable.
2. Not Applicable.
3. Not Applicable.
4. Not Applicable.

**Section D: Proposed Energy Conversion Facilities During the Next Ten-Year Time Period**

1. Not Applicable.
2. Not Applicable.
3. Not Applicable.

**Section E: Existing Transmission Facilities (Electric)**

1. Not Applicable.
2. Not Applicable.
3. Not Applicable.

**Section F: Existing Transmission Facilities (Pipeline)**

1. Location of each facility within the state. See Exhibit "A." (2 Parts)

2. Type and Capacity: design specifications of each facility:

a.	<u>Facility</u>	<u>Product Type</u>
	18 inch pipeline	Crude Petroleum
	26 inch pipeline	Crude Petroleum
	34 inch pipeline	Crude Petroleum
	20 inch pipeline	Crude Petroleum/Natural Gas Liquid
	20 inch pipeline	Crude Petroleum
	36 inch pipeline	Crude Petroleum
	36 in pipeline (AC)	Crude Petroleum
b.	<u>Facility</u>	<u>Length of Facility (miles)</u>
	18 inch pipeline	28
	26 inch pipeline	28
	34 inch pipeline	28
	20 inch pipeline	28
	20 inch pipeline	28
	36 inch pipeline	28
	36 inch pipeline (AC)	28
c.	<u>Facility</u>	<u>Pipe Size</u>
	18 inch pipeline	18 inches
	26 inch pipeline	26 inches
	34 inch pipeline	34 inches
	20 inch pipeline	20 inches
	20 inch pipeline	20 inches

**Section F: Existing Transmission Facilities (Pipeline) (cont.)**

	<u>Facility</u>	<u>Pipe Size</u>
	36 inch pipeline	36 inches
	36 inch pipeline (AC)	36 inches
d.	<u>Facility</u>	<u>Maximum Design Operating Pressure</u>
	18 inch pipeline	837 psi
	26 inch pipeline	809 psi
	34 inch pipeline (16 miles)	619 psi
	1997 34" pipeline Replacement (12 miles)	757 psi
	20 inch pipeline	1,460 psi
	20 inch pipeline	1,260 psi
	36 inch pipeline	991 psi
	36 inch pipeline (AC)	1,313 psi
e.	<u>Facility</u>	<u>Maximum Design Flow Rate</u>
	18 inch pipeline	200,000 BBLs./Day*
	26 inch pipeline	491,000 BBLs./Day
	34 inch pipeline	559,000 BBLs./Day
	20 inch pipeline	263,000 BBLs./Day
	20 inch pipeline	206,000 BBLs./Day
	36 inch pipeline	884,000 BBLs./Day
	36 inch pipeline (AC)	500,000 BBLs./Day

\*Change in flowrate as of July 1, 2010.

**Section F: Existing Transmission Facilities (Pipeline) (cont.)**

- f. Compressor or pumping station specifications including type, horsepower, output pressure, and capacity:

Joliette, North Dakota Pump Station:

Operates on the 20-inch pipeline (and 18-inch pipeline as required).  
Three units - electric, motor-driven centrifugal pumps with VFD (variable frequency drive) and selectable start and run capabilities:

- Unit 1.1: 3,800 horsepower, flowrate: 309,000 BBLs. /Day BEP (Best Efficiency Point), in service: January 1987
- Unit 1.2: 3,800 horsepower, flowrate: 326,000 BBLs. /Day BEP, in service: October 1990
- Unit 1.3: 3,800 horsepower, flowrate: 326,000 BBLs. /Day BEP, in service: December 1997

The Joliette, ND Pump Station has high discharge shutdown: 1,385 psi.

- g. Facility Minimum Cover over Pipe

18 inch pipeline	36 inches
26 inch pipeline	36 inches
34 inch pipeline	36 inches
20 inch pipeline	36 inches
20 inch pipeline	36 inches
36 inch pipeline	36 inches
36 inch pipeline (AC)	36 inches

3. Facility In Service Date
- |                                |                |
|--------------------------------|----------------|
| 18 inch pipeline               | November 1950  |
| 26 inch pipeline<br>(3 miles)  | October 1954   |
| 26 inch pipeline<br>(25 miles) | September 1956 |
| 34 inch pipeline<br>(16 miles) | September 1967 |

**Section F: Existing Transmission Facilities (Pipeline) (cont.)**

<u>Facility</u>	<u>In Service Date</u>
1997 34" pipeline Replacement (12 miles)	October 1, 1997
20 inch pipeline	November 1994
20 inch pipeline*	February 27, 2009
36 inch pipeline	January 15, 1999
36 inch pipeline (AC)	April 1, 2010

\*This 20 inch pipeline was constructed by Enbridge Pipelines (Southern Lights) L.L.C. pursuant to approval from the North Dakota Public Service Commission. It was obtained by Enbridge Energy, Limited Partnership as part of a like-kind exchange transaction in 2009 from Enbridge Pipelines (Southern Lights) L.L.C. in exchange for the 18 inch pipeline listed above. Enbridge Energy, Limited Partnership currently leases that 18 inch pipeline from Enbridge Pipelines (Southern Lights) L.L.C.

4. Projected retirement date of any transmission facility within the next ten-year period: None at this time.

**Section G: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Electric)**

1. Not Applicable.
2. Not Applicable.
3. Not Applicable.
4. Not Applicable.

**Section H: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Pipeline)**

1. Enbridge Energy does not have any approved plans to construct additional pipeline facilities in North Dakota in the next 5 years unless repairs or maintenance require replacement.
2. See Item 1. above.
3. See Item 1. above.
4. See Item 1. above.

**Section I: Proposed Transmission Facilities During the Next Ten-Year Time Period (Electric and Pipeline)**

1. Enbridge Energy does not have any additional plans to construct additional pipeline facilities in North Dakota in the next 10 years unless repairs or maintenance require replacement.
2. See Item 1. above.
3. See Item 1. above.

**Section J: Regional Coordination**

1. Not Applicable.
2. Not Applicable.
3. Not Applicable.
4. Not Applicable.

**Section K: Environmental Information**

1. Attached hereto as Exhibits "B", "C" and "D", respectively, please find the following material:  
  
Exhibit B      A copy of Enbridge Energy's Environmental Policy Statement.  
  
Exhibit C      A document entitled "Environmental Protection" which sets forth Enbridge Energy's philosophy and procedures with respect to protection of the environment.  
  
Exhibit D      Parts of Enbridge Energy's Emergency Response Plan.

**Section L: Projected Demand for Service**

1. Not Applicable (no deliveries of liquid hydrocarbons in North Dakota).
2. Not Applicable.
3. Not Applicable.