

CROWLEY | FLECK PLLP  
ATTORNEYS

Brian R. Bjella  
400 East Broadway, Suite 600  
P.O. Box 2798  
Bismarck, ND 58502-2798  
701.223.6585  
bbjella@crowleyfleck.com

September 30, 2011

Hand Delivered

Mr. Darrell Nitschke  
Executive Director  
PUBLIC SERVICE COMMISSION  
12th Floor, State Capitol  
600 E. Boulevard Ave.  
Bismarck, ND 58505-0480

Dear Mr. Nitschke:

In re: Enbridge Pipelines (North Dakota) LLC 2011 Ten-Year Plan  
Our File No. 31-411-000

On behalf of Enbridge Pipelines (North Dakota) LLC ("EPND"), we hereby submit ten copies of EPND's Ten-Year Plan pursuant to North Dakota Century Code § 49-22-04 and North Dakota Administrative Code Chapter 69-06-02.

Sincerely yours,

  
BRIAN R. BJELLA

bw

Enc.

Ten-Year Plan to:

County Auditors:

Benson, Bottineau, Burke, Divide, Grand Forks,  
McHenry, McKenzie, Mountrail, Nelson, Pierce,  
Ramsey, Renville, Ward, and Williams Counties

James Watts

Notice to:

State Agencies and Officers designated in  
§ 69-06-01-05, N.D. Adm. Code.

**ENBRIDGE PIPELINES (NORTH DAKOTA) LLC**  
(Referred to herein as "EPND")

TEN YEAR PLAN  
NORTH DAKOTA

SEPTEMBER 30, 2011

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION A: Existing Energy Conversion Facilities

This section does not apply to EPND.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION B: Energy Conversion Facilities Under Construction

This section does not apply to EPND.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION C: Proposed Energy Conversion Facilities on Which Construction is  
Intended Within the Ensuing Five Years

This section does not apply to EPND.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION D: Proposed Energy Conversion Facilities During the Next Ten Year  
Time Period

This section does not apply to EPND.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION E: Existing Transmission Facilities (Electric)

This section does not apply to EPND.

Enbridge Pipelines (North Dakota) LLC  
 Ten Year Plan  
 North Dakota

SEPTEMBER 30, 2011

SECTION F: Existing Transmission Facilities (Pipeline)

- 1) Enclosed is a System Map designated as Exhibit "A".
- 2) The pipeline consists of:
  - a) Product type – crude petroleum
  - b) Length of facility

Pipeline Segments	Miles
Canadian Border to Berthold	64.4
Berthold to Clearbrook (ND miles only)	233.7
Beaver Lodge to Berthold	54.7
Grenora to Beaver Lodge	53.0
Reserve to Grenora (ND miles only)	5.0
Flat Lake to Grenora	29.4
Alexander to Trenton	12.0
Trenton to Beaver Lodge	52.5
Sherwood to Maxbass	29.7
Newburg to Maxbass	13.4
Maxbass to Minot	33.8
Trenton to Beaver Lodge Loop	51.7
<b>TOTAL</b>	<b>633.3</b>

c) Pipe size

- i) 6-5/8" O.D.
- ii) 8-5/8" O.D.
- iii) 10-3/4" O.D.
- iv) 12-3/4" O.D.
- v) 16" O.D.

- d) Maximum design operating pressure
  - i) 1440 psig for 6-5/8"
  - ii) 1440 psig for 8-5/8"
  - iii) 1440 psig for 10-3/4"
  - iv) 1440 psig for 12-3/4"
  - v) 1440 psig for 16"
  
- e) Maximum design flow rate
  - i) Grenora to Beaver Lodge – 25,000 BPD (Barrels Per Day)
  - ii) Alexander to Trenton – 80,500 BPD
  - iii) Trenton to Beaver Lodge 127,600
  - iv) Berthold to Canadian Border – 25,000 BPD
  - v) Beaver Lodge to Stanley – 144,000 BPD
  - vi) Stanley to Minot – 171,000 BPD
  - vii) Sherwood to Maxbass – 7,000 BPD
  - viii) Newburg to Maxbass – 4,800 BPD
  - ix) Maxbass to Minot – 16,000 BPD
  - x) Minot to Clearbrook, MN – 185,000 BPD

f) Pump Stations

- i) Number (North Dakota) 18
- ii) Station horsepower
  - (1) Total installed horsepower – 56655 Hp
  - (2) 1 – 1500 horsepower diesel engine (back-up)
- iii) Discharge pressure – 1440 psig
- iv) Capacity – 4,800 –185,000BPD

g) Minimum cover over pipe – 36 inches

3) Facilities “in service” dates

- a) Grenora to Beaver Lodge – 1964
- b) Alexander to Beaver Lodge – 1983
- c) Berthold to Lignite - 1962
- d) Canadian Border to Lignite – 1996
- e) Beaver Lodge to Berthold – 1964
- f) Sherwood to Maxbass – 1962
- g) Newburg to Maxbass – 1960
- h) Maxbass to Minot – 1960
- i) Minot to Clearbrook Station, Minnesota – 1962
- j) Berthold to Minot – 1962
- k) Trenton to Beaver Lodge – Q4 2007

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION G: Proposed Transmissions Facilities on Which Construction is  
Intended Within the Ensuing Five Years (Electric)

This section does not apply to EPND.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION H: Proposed Transmission Facility on Which Construction is Intended  
Within the Ensuing Five Years (Pipeline)

Planned upgrades to the EPND pipeline system in 2011 are as follows:

1. **Q3 2011 - EOG Rail - Stanley Station** - connect Enbridge Stanley piping to deliver to EOG Rail Facility
2. **Q4 2011 - Beaver Lodge Station Expansion** - upgrade piping and manifold to connect to new shipper-owned and operated 7 Lot Truck Unloading Facility. (Approved on June 29, 2011 by Certification Letter in Docket PU-11-327)
3. **Q4 2011 - Stanley Station Expansion** - upgrade piping and manifold to connect to new shipper-owned and operated 6 Lot Truck Unloading Facility (Approved on June 29, 2011 by Certification Letter in Docket PU-11-327)
4. **Q4 2011 - Trenton Station Expansion** - upgrade piping and manifold and new pipeline connection to connect to new shipper-owned and operated 8 Lot Truck Unloading Facility
5. **Q4 2011 - Alexander Station Expansion** - upgrade piping and manifold to connect to new shipper-owned and operated 8 Lot Truck Unloading Facility
6. **Q4 2012 - Grenora Station Upgrade Project**
  - Connect new shipper-owned and operated 8 Lot Truck Unloading Facility
  - Hydrotest Grenora to Beaver Lodge line for increased capacity
  - Upgrades to pumping, piping and metering facilities
  - Construct one new 40,000 barrel tank
7. **Q4 2012 - Little Muddy Station and Pipeline Project**
  - Construct new Little Muddy Injection Station

- Approximately 6 miles of new 10-inch pipeline
  - Install (2) new 20,000 barrel tanks
  - Construct pump upgrades at existing East Fork Station
  - Connect new shipper-owned and operated 8 Lot Truck Unloading Facility
8. **Q4 2012 - Plaza-Makoti** - reactivate 30 miles of pipeline and accommodate new shipper-owned and operated 8 Lot Truck Unloading Facility
  9. **Q1 2013 - Beaver Lodge Loop Expansion Project** - construction of facilities at the Berthold and Stanley Stations to facilitate the early activation of the Beaver Lodge Loop Project
  10. **Q1 2013 - Bakken Pipeline Project** - adds 120,800 BPD of incremental export pipeline capacity to Line 26 to move Bakken production out of North Dakota (Approved on May 5, 2011 in Docket No. PU-10-612):
    - Two new pumping stations (Kenaston and Lignite, North Dakota)
    - Replace 11-mile segment of the existing 12-inch diameter pipeline (Line 26) between Kenaston and Lignite
    - Expansion at Berthold Station
  11. **Q1 2013 - Beaver Lodge Loop Project** - adds 145,800 BPD of incremental pipeline capacity ex-Beaver Lodge to Berthold (Approved on May 17, 2011 in Docket No. 10-613):
    - Approximately 26 miles of new 16-inch diameter pipeline between EPND's Beaver Lodge (Near Tioga, North Dakota) and Stanley Stations
    - Approximately 29 miles of new 16-inch diameter pipeline between EPND's Stanley and Berthold Stations

In addition to the construction of new pipelines, the project scope will also include expansions within EPND's existing terminal facilities in the following locations:

- Two new 80,000 barrel tanks at Berthold, North Dakota terminal
- One new 80,000 barrel tank at Stanley, North Dakota terminal
- One new 150,000 barrel tank at the Beaver Lodge terminal near Tioga, North Dakota

- Interconnection valves, pipes and metering stations will also be built.

**12. Q4 2013 - Sanish Pipeline Project (formally SORTI-Dunn – project scope has been revised)**

- Approximately 36 miles of new 12-inch mainline pipeline and associated facilities originating near Johnson's Corner, McKenzie County, North Dakota and terminating at Beaver Lodge Station near Tioga, North Dakota.
- Approximately 6 miles of new 10-inch pipeline and associated facilities to connect Saddle Butte Facility and Arrow Pipeline Facility
- Install new pump station and terminal at Johnson's Corner, McKenzie County, North Dakota
- Upgrade station facilities at existing Beaver Lodge Pump Station and Terminal Facility
- Install (2) new 30,000 barrel tanks at Johnson's Corner Station
- Initial target design rate of 67,000 BPD, with design considerations to allow easy upgrades to achieve an ultimate design rate of 100,000 BPD

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

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

EPND does not have any proposed projects beyond those reported on SECTION H.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION J: Regional Coordination

EPND is not attempting to coordinate our plans with other utilities serving the area. However, as expansion plans develop, affected utilities have and will be contacted.

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION K: Environmental Information

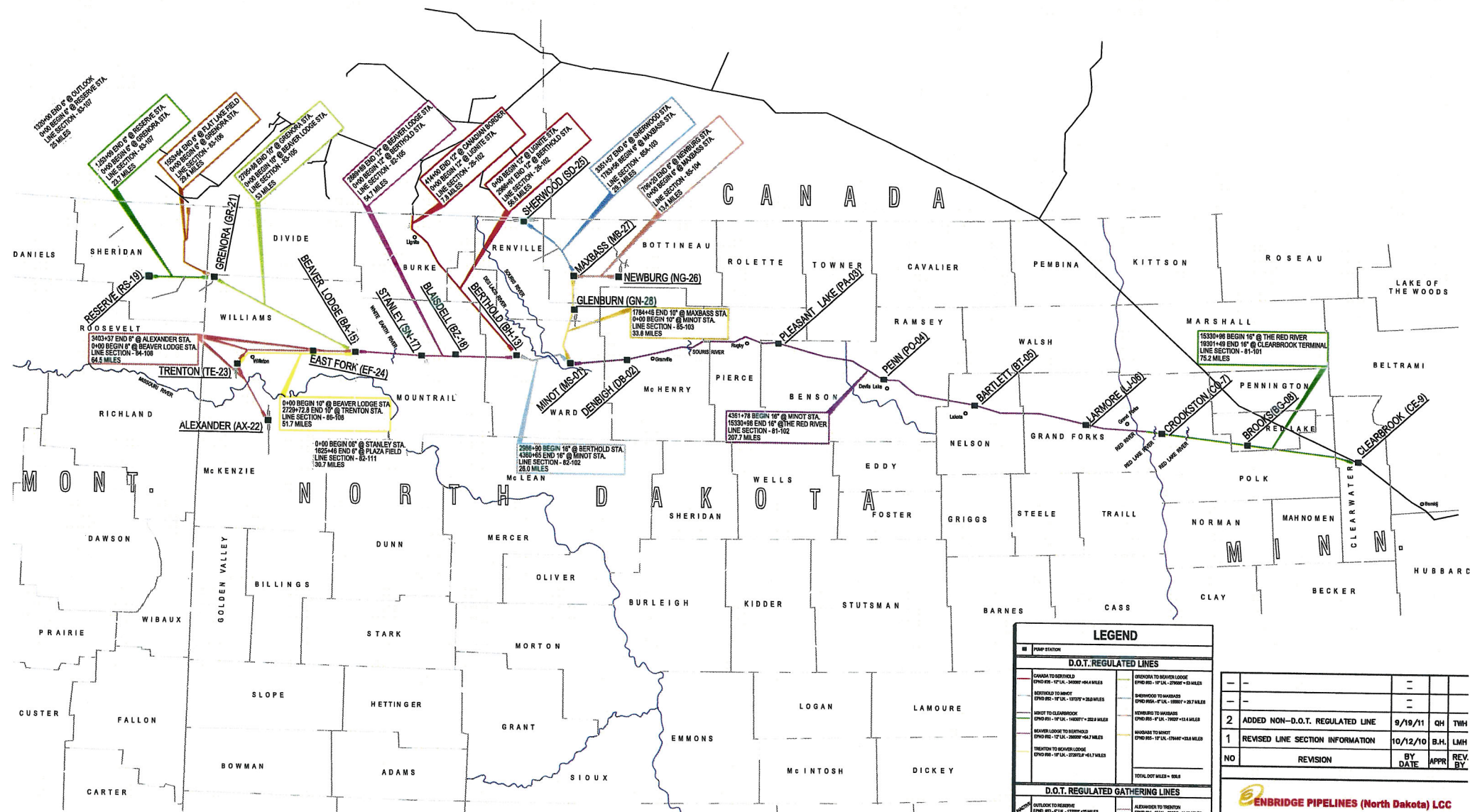
See attached policy described as Exhibit "B".

Enbridge Pipelines (North Dakota) LLC  
Ten Year Plan  
North Dakota

SEPTEMBER 30, 2011

SECTION L: Projected Demand for Service

Crude oil gathered into the EPND System is batched in Minot for transporting through EPND's mainline pipeline to Clearbrook, Minnesota. In 2011, EPND's mainline projection is 185,000 BPD. EPND's volume of business is directly related to production in the Williston basin, which is dependent on the extent of exploration being undertaken and crude oil usage, by others. Current North Dakota production is in excess of 423,000 BPD and is forecast to climb to 800,000 BPD in the future



2	ADDED NON-D.O.T. REGULATED LINE	9/19/11	QH	TWH
1	REVISED LINE SECTION INFORMATION	10/12/10	B.H.	LMH
NO	REVISION	BY DATE	APPR	REV. BY

**ENBRIDGE PIPELINES (North Dakota) LCC**

**MN, ND, MT SYSTEM**

**SYSTEM MAP**

LINE SECTION INFORMATION

PROJECT:

SCALE: NO SCALE DATE: 3/20/2003 DRAWN: G.H.

CHECK: G. HARRON APPR: G. HARRON DATE: 3/20/2003

B-0-0.5-10002-0-300-LNINFO



# Environmental Policy

## Liquids Pipelines

- The protection of the environment is an integral element in the conduct of company business.
- The company will ensure adverse environmental effects are minimized through careful planning, implementation of effective protection measures, and monitoring of company activities.
- The company will comply with government regulations and standards through internal rules and procedures for environmental protection that will be consistent with industry codes and guidelines.
- The company will minimize consequences of emergency events by ensuring prompt and effective response.
- The company will provide appropriate training to ensure employees understand their responsibility to protect the environment.
- Employees and contractors must follow company environmental rules and procedures, and must carry out work in an environmentally responsible manner at all times.
- The company will provide the public and government with relevant information regarding planned activities, and will actively respond to their concerns.
- Environmental damage resulting from company actions or actions of its contractors will be repaired in a timely and efficient manner.
- Environmental research will be encouraged, supported and undertaken when necessary to improve company environmental protection and reclamation procedures.

A handwritten signature in black ink, appearing to read 'Steve Wuori', is positioned above the printed name and title.

Steve Wuori  
Executive Vice President  
Liquids Pipelines