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The section contains trade secret and privileged information that has been excised from the Certificate of Need Application available to the public. The publicly available Application will identify the excised material as provided under Minn. Rules 7829.0500, subpart 3, and the MPUC's procedures for handling trade secret data.

**7853.0510 HISTORICAL ENERGY DATA**

**Subpart 1. Products, usage, and suppliers. For the geographical area to be served by the proposed facility, the applicant shall provide the following:**

**A. a list of the petroleum products by major categories (such as crude oil, gasoline, fuel oil, and so forth) transported or distributed by the applicant in that geographical area during the five most recent calendar years;**

Sandpiper will be operationally integrated as part of the NDPC System. This section provides historical data for the crude oil transported on the NDPC System, which is owned and operated by NDPC.

As defined in its FERC Tariff on Rules and Regulations, NDPC transported Light Sweet Crude Oil (SW) and Light Sour Crude Oil (SO) until 2011. In 2011, NDPC announced that it would no longer accept Light Sour Crude Oil for transport on the NDPC System. Since 2011, only Light Sweet Crude has been transported on NDPC.

**B. for each category listed in response to item A and for each of the five most recent calendar years, a list of the annual and peak day quantities transported or distributed in the appropriate units of measure;**

Table 7853.0510-B.1 provides the historical annual daily average volumes for each of the years 2007 to 2012 by the crude types listed in response to Subpart 1.A above. Note that Table 7853.0510-B.1 reflects the volumes of SO that was transported from 2007 to 2011.



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<b>Table 7853.0510-1-B.1</b>						
<b>Disposition of Crude Oil in the State of Minnesota on the NPC System</b>						
<b>Average Daily Volumes entering Minnesota</b>						
<b>(000) bpd</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
SO	9.41	7.54	5.17	5.40	0.63	---
SW	80.61	96.96	104.45	157.62	182.68	187.43
Average Total Daily Volumes	90.02	104.51	109.62	163.02	183.32	187.43
<b>Average Daily Volumes delivered in-state from the NDPC System</b>						
<b>(000) bpd</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
SO	2.79	3.03	2.32	2.43	0.24	---
SW	23.78	23.85	34.93	56.34	49.21	58.77
Average Total Daily Volumes	26.57	26.88	37.25	58.77	49.45	58.77
<b>Percentage of in-state delivery</b>						
	29.52%	25.72%	33.98%	36.05%	26.97%	31.36%
SO	3.10%	2.90%	2.12%	1.49%	0.13%	---
SW	26.42%	22.82%	31.86%	34.56%	26.84%	31.36%

**C. a list of sources of supply of petroleum products for transportation or distribution during the five most recent calendar years, designated as either in-state or as out-of-state, the dates and durations of the contracts with the 25 largest suppliers or shippers, the categories of petroleum products and quantities involved, and for sources of crude oil, the geographical areas of origin of the crude oil; and**

**C.1 a list of sources of supply of petroleum products for transportation or distribution during the five most recent calendar years, designated as either in-state or as out-of-state,**

All of the crude which is transported on the NDPC System is sourced from the Bakken or Three Forks formations in North Dakota and eastern Montana respectively. This crude oil is designated as out-of-state.



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**C.2 the dates and durations of the contracts with the 25 largest suppliers or shippers,**

There are no contracts for shipment on the existing NDPC System in Minnesota; it is operated as a common carrier. Common carriers do not have contracts for shipment. Instead, all shipments are governed by the tariff maintained by Enbridge with the FERC. The tariff is a statement of the “rules and regulations governing the rates and charges” for crude oil transportation and not an individual agreement to ship crude oil for particular shippers.”<sup>1</sup>

The FERC has recognized the difference between providing service as a common carrier under a tariff and under a contract for committed service with a particular shipper. The FERC has clarified that non-contract common carrier shippers “may choose to ship on [the pipeline] during a month or not to do so.”<sup>2</sup> Because NDPC’s shippers are not under contract, they are also not obligated to ship any set volume per month or year.

If a shipper chooses to use the NDPC system, the movement is on a monthly basis through the nomination process. The Notice of Shipment Date (typically the 20th of each month) is the deadline for any shipper that desires to transport oil on the NDPC System to nominate barrels. The duration of each nomination is one month or approximately 30-days. Following the Notice of Shipment Date, NDPC builds the schedule for the following month, and if nominations exceed capacity, apportionment is declared.

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<sup>1</sup> See 18 C.F.R. § 341.0(b).

<sup>2</sup> Enbridge (U.S.) Inc. and ExxonMobil Pipeline Co., 124 FERC ¶ 61,199, at P 28 (2008).



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**C.3 the categories of petroleum products and quantities involved,**

Table 7853.0510-1-C.3-1 provides the categories of crude oil shipped by the 25 largest shippers from 2009 to 2013.

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Table 7853.0510-1-C.3-1 Top 25 Shippers and Product Type		
	Shipper	Product Type
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Table 7853.0510-1-C.3-2 provides the historical annual barrels on an aggregate basis shipped by the 25 largest shippers for 2009 to 2013 by the crude types listed in response to Subpart 1.A above.

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Table 7853.0510-1-C.3-2 Historical Annual Barrels on an Aggregate Basis Shipped by 25 largest Shippers.		
Year	SW Volume (bbl)	SO Volume (bbl)
2009		
2010		
2011		
2012		
2013		

**C.4 for sources of crude oil, the geographical areas of origin of the crude oil; and,**

The primary source of crude oil supply for the NDPC System is the Bakken and Three Forks formations, which span portions of North Dakota and Montana.

**D. for each of the five most recent calendar years and for each category of petroleum product, the percentage of in-state delivery of the annual amounts given in response to item B.**

See Table 7853.0510-1-B.1 above, as it provides the aggregate volumes entering the State of Minnesota and in-state crude oil deliveries at Clearbrook on an annual average basis. As noted, all of the annual amounts identified on Table 7853.0510-1-B.1 are in-state deliveries at the Enbridge Clearbrook, Minnesota terminal. Currently, the NDPC volumes that are not delivered to the Minnesota Pipeline Company are delivered to the Enbridge Mainline System at Clearbrook, Minnesota and for further transportation to the Superior, Wisconsin terminal. However, once the Project begins operation, the current NDPC connection to the Enbridge Mainline System at Clearbrook will be terminated and NDPC volumes will be transported on the Project to the Superior Terminal on Sandpiper.

**Subpart 2. Facilities; maps.**

**List each large oil or LPG storage facility location, gas plant, large pipeline facility, and oil refinery associated with the transportation or distribution of the categories of petroleum products named in response to subpart 1, item**



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**A. Provide maps that represent the locations and interconnections of these facilities.**

Table 7853.0510-2.1 lists the crude oil breakout tankage facility locations on the NDPC System. Table 7853.0510-2.2 provides the current configuration of NDPC's pipeline facilities. Appendix G.2 of the EIR shows the location of these facilities as well as interconnecting receipt and delivery locations.

<b>Table 7853.0510-2.1 NDPC Crude Oil Breakout Tankage Facilities</b>		
<b>Location</b>	<b>Number of Tanks</b>	<b>Total Volume (Barrels)</b>
Alexander Station	2	75,000
Beaver Lodge Station	4	360,000
Berthold Station	3	240,000
Berthold Rail & West Station	2	300,000
Glenburn Station	1	5,000
Grenora Station	2	70,000
Reserve Station	1	5,000
Little Muddy Station	2	60,000
Maxbass Station	2	15,000
Minot Station	3	280,000
Sherwood Station	1	5,000
Stanley Station	3	190,000
Trenton Station	2	40,000
Clearbrook, MN <sup>A</sup>	9	1,315,000
Superior, WI <sup>A</sup>	40	8,745,152
<sup>A</sup> These terminals are associated with the Enbridge Mainline System. All other		



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Table 7853.0510-2.1 NDPC Crude Oil Breakout Tankage Facilities		
Location	Number of Tanks	Total Volume (Barrels)
facilities are located in North Dakota.		

Table 7853.0510-2.2 NDPC System Configuration			
Location	Line Number	OD (Inches)	Length (Miles)
Reserve Station to Grenora Station	83	6.625	23.7
Flat Lake to Reserve Station	83	6.625	29.4
Grenora Station to Beaver Lodge Station	83	10.75	53
Alexander Station to Beaver Lodge Station	84	8.625	64.5
Trenton Station to Beaver Lodge Station	86	10.75	51.7
Little Muddy Station to East Fork Station	88	10.75	5.9
Beaver Lodge Station to Berthold Station	82	12.75	54.7
Beaver Lodge Station to Berthold Station	87	16	55.5
Berthold Station to Minot Station	82	16	26



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<b>Table 7853.0510-2.2 NDPC System Configuration</b>			
<b>Location</b>	<b>Line Number</b>	<b>OD (Inches)</b>	<b>Length (Miles)</b>
Minot Station to Clearbrook Station	81	16	282.9
Sherwood Station to Maxbass Station	85A	6.625	29.7
Newburg Station to Maxbass Station	85	6.625	13.4
Maxbass Station to Minot Station	85	6.625	33.8
Canadian Border to Berthold Station	26	12.75	64.5

**Subpart 3. Use of design capacity.**

**For each large energy facility or location listed in response to subpart 2, located in Minnesota and owned or operated by the applicant, provide the average percentage of use of its full design capacity during the summer season and during the winter season.**

Table 7853.0510-3.1 lists the average percentage of use for the NDPC System in Minnesota during the summer and winter season.

<b>Table 7853.0510-3.1 NDPC System 2012 Percentage of Annual Capacity (Minnesota)</b>		
	<b>Summer</b>	<b>Winter</b>
Line 81	94.8%	86.8%





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**7853.0530 DESCRIPTION OF PROPOSED FACILITY**

**Subpart 1. Design.** The applicant shall provide the following information pertaining to the design of the proposed construction of a large petroleum pipeline:

**A. if known, the complete name and address of the engineer and firm to be responsible for the design:**

Company Engineering Managers	
Barry Simonson	Greg Schelin
Enbridge Energy, Limited Partnership	Enbridge Energy, Limited Partnership
1409 Hammond Ave., Ste. 200	1409 Hammond Ave., Ste. 200
Superior, WI 54880	Superior, WI 54880

**B. the estimated tariffs, capital cost, annual operating and maintenance costs, and economic life;**

**B.1. Estimated Tariff**

As an interstate common-carrier of crude oil and natural gas liquids, the applicable rates, tariffs, and accounting practices for the pipeline are subject to the regulatory authority of the FERC under the Interstate Commerce Act. NDPC plans to file its tariff for the Project approximately 60 days prior to placing the facilities in-service. Additionally, the current NDPC tariffs are available on the FERC website and are also posted on the company web site at <http://www.enbridgeus.com/Informational-Postings/North-Dakota/North-Dakota-Tariffs-and-Tolls/> no less than 30 days prior to the pipeline going into service.

**B.2. Capital Cost**

NDPC estimates the cost of constructing the proposed 24- and 30-inch pipeline to be \$2.6 billion, including \$1.2 billion in Minnesota.



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### **B.3. Operating and Maintenance Costs**

The NDPC System has an established operation and maintenance program and will share other expenses, including labor costs, with Sandpiper. NDPC expects any new operating and maintenance expenses to be vastly less than the operation expenses and cost of additional labor associated with alternatives to the Project, such as rail or truck transportation, as detailed in Section 7853.0540. The cost of the Project, including operating and maintenance costs, will be recovered through the tariff filed with FERC no less than 30 days prior to the pipeline going into service.

Further, NDPC does not yet have the final cost of the Project, only the estimates disclosed in this Application. The tariff will be filed with the FERC no less than 30 days before the Project is placed into operation. Including a preliminary FERC filing at this time would prejudice NDPC's future filing with the FERC, which has exclusive jurisdiction over the tariff.

### **B.4. Economic Life**

The anticipated economic life for the Sandpiper Pipeline Project will be no less than 30 years.<sup>1</sup>

### **C. a list of the categories of petroleum products the large pipeline is intended to transport;**

Sandpiper is expected to transport Light Sweet Crude Oil.

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<sup>1</sup> The economic life of a pipeline or pump station is not the same as the physical life of the facility, which is indefinite with proper construction and maintenance practices.



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D. its initial and ultimate design capacities in barrels per day, its diameter, length in Minnesota, maximum number of pumping stations in Minnesota, and nominal station spacing; and

Table 7853.0530-1-D.1 Sandpiper Pipeline Project Capacity Definitions			
		24" Pipeline from Berthold, ND to Clearbrook, MN (bpd)	30" Pipeline from Clearbrook, MN to Superior, WI (bpd)
Ultimate Capacity	Maximum economic expansion capacity of individual line. Requires additional pumping horsepower over current design to meet this capacity	406,000	711,000
Ultimate Annual Capacity	Maximum economic expansion capacity of individual pipeline that is sustainable average daily rate per day over a year	365,000	640,000
Initial Design Capacity	Theoretical capacity	250,000	417,000
Initial Annual Capacity (90%)	Average sustainable rate: average barrels per day over a year (90% of Design Capacity)	225,000	375,000

**Length in Minnesota:**

The Project length will be 302 miles in Minnesota.

**Maximum number of pumping stations:**

NDPC plans to install one new pump station near Clearbrook, Minnesota.



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**Nominal station spacing:**

The distance from the North Dakota/Minnesota border to the Clearbrook Station is approximately 73 miles. The distance from the Clearbrook Station to the Minnesota/Wisconsin border is approximately 229 miles.

**E. Engineering data, including the following:**

**E(1). a pipeline system map showing the route, mileage, location of pumping stations, mainline valves, petroleum storage facilities and interconnections;**

As depicted on the route maps (see Exhibit G.5 of the EIR), in Minnesota the preferred route follows the NDPC System from the North Dakota border south of Grand Forks, North Dakota to Clearbrook, Minnesota. The preferred route then turns south and generally follows the existing Minnesota Pipe Line Company right-of-way to Hubbard, Minnesota. From Hubbard, the preferred route turns east, following parts of existing electrical transmission and railroad lines and pipeline rights-of-way, including some greenfield parcels, before terminating in Superior, Wisconsin. The preferred route in Minnesota traverses Polk, Red Lake, Clearwater, Hubbard, Cass, Crow Wing, Aitkin, and Carlton counties.

As stated above, one new pump station will be installed at the new NDPC Clearbrook Terminal near Clearbrook, Minnesota. Station plat maps depicting the location of the new pump station are included in Appendix G.3 of the EIR.

Approximately 15 mainline valves will be installed in Minnesota. The preliminary engineering design complies with industry standards, federal regulations, and the operational needs of the NDPC System. Valves will be near major rivers, other environmentally sensitive areas, population centers, and pumping stations. Proposed valve locations are depicted on the attached route maps (see Appendix G.5 of the EIR). The number and location of the valves may change as a result of a detailed engineering and environmental study currently underway.

In Minnesota, the only interconnection with other pipeline systems will be located at Enbridge's existing Clearbrook Terminal, where the existing NDPC System delivers crude oil into the Minnesota Pipe Line Company System (see Appendix G.3 of the EIR). NDPC's existing Line 81 currently makes crude oil deliveries via this interconnection and Sandpiper will



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provide redundant service for the Line 81 deliveries. This connection allows crude oil deliveries to Minnesota refineries.

**E(2). specifications for pipe (diameter, length, wall thickness, grade) and valves (diameter and American National Standards Institute rating) with the maximum allowable operating pressure for each;**

<b>Table 7853.0530-1-E.2-1 Sandpiper Pipeline Project Pipe Specifications</b>		
<b>Explanation</b>	<b>ND Border to Clearbrook, MN</b>	<b>Clearbrook, MN to WI Border</b>
Diameter	24-inch outside diameter (NPS 24)	30-inch outside diameter (NPS 30)
Length	73 miles	229 miles
Wall Thickness	0.375 inch	0.469 inch
Coating	Fusion Bond Epoxy	Fusion Bond Epoxy
Specified Minimum Pipe Yield Pressure	1,480 psig	1,480 psig
Grade	X70 Carbon steel pipe manufactured according to American Petroleum Institute (API) Specifications 5L PS2	X70 Carbon steel pipe manufactured according to American Petroleum Institute (API) Specifications 5L PS2

<b>Table 7853.0530-1-E.2-2 Sandpiper Pipeline Project Valve Specifications</b>		
<b>Explanation</b>	<b>ND Border to Clearbrook, MN</b>	<b>Clearbrook, MN to WI Border</b>
Diameter	24-inch outside diameter (NPS 24)	30-inch outside diameter (NPS 30)
ANSI Rating	ANSI Class 600	ANSI Class 600

The valves to be installed will be 24-inch and 30-inch ANSI 600, weld end by weld end, full port, rising stem gate valves. These valves will be manufactured in accordance with API Standard 6D "API Specification for



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Steel, Gate, Plug, Ball and Check Valves for Pipeline Service". The MAOP of the valve will be 1,480 psig.

**E(3). for the pumps, representative specifications including diameter, allowable maximum operating pressures, and maximum capacities; and**

As stated in Section 7853.0230, NDPC proposes to install new pumping units at the pump station at the new NDPC Clearbrook Terminal near Clearbrook, Minnesota. The specifications of the proposed new unit are provided in Table 7853.0530-1-E.3:

<b>Table 7853.0530-1-E.3 Sandpiper Pipeline Project Pump Station Specifications Clearbrook Pump Station</b>					
<b>Unit</b>	<b>Inlet Diameter (Inches)</b>	<b>Impeller Diameter (Inches)</b>	<b>Pump Maximum Allowable Operating Pressure (psig)</b>	<b>Maximum Annual Capacity (kbpd)</b>	<b>Maximum Power Capacity of Motors (hp)</b>
1	24	28.45	1,480	640	5,500
2	24	28.45	1,480	640	5,500
3	24	28.45	1,480	640	5,500
4	24	28.45	1,480	640	5,500

**E(4). for the prime movers, representative specifications including type, allowable maximum power capacity in horsepower, efficiency, allowable maximum and minimum operating temperatures, and energy requirement in Btu per barrel per mile of petroleum product pumped.**

The maximum power capacity of the prime movers is shown in Table 7853.0530-1-E.3. All prime movers are 4,160 volt, three-phase electrical motors. The minimum design efficiency of these motors is 96% at 100% load. They are designed to operate (both start and run) at ambient temperatures of 104°F to -49°F. The energy requirement to operate these



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motors is approximately 13 Btu/barrel/mile. This is based on an annual throughput of 375,000 bpd for the 30-inch pipeline.

**Subpart 2. Construction**

The applicant shall provide the following information pertaining to the proposed construction of the facility:

- A. if known, the complete name and address of the company to be responsible for the construction;**

The construction contractor(s) will be determined by competitive bid, considering only qualified mainline pipeline contractors.

- B. the proposed date for commencement of construction and the proposed in-service date; and**

Construction is anticipated to commence in the fourth quarter of 2014, and to be complete on or before the first quarter of 2016. The proposed in-service date is the first quarter 2016.

- C. an estimate of the in-service date if the construction were to be on a fully expedited basis.**

If construction were on a fully expedited basis, the estimated in-service date is fourth quarter 2015.

**Subpart 3. Operation.**

The applicant shall provide the following information pertaining to the operation of the proposed facility:

- A. the expected average percentage of use of the full design capacity of the proposed facility during each of the five years of operation;**

NDPC expects that the annual capacity will be fully utilized over each of the first five years of operation.

- B. the expected maximum operating pressure and capacity of the proposed facility at peak demand;**



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The maximum annual flow capacity is 225,000 bpd and 375,000 bpd (west and east of Clearbrook, respectively) using a MAOP of approximately 1,480 psig at the Clearbrook pump station. Controls are in place so that the mainline MAOP is not exceeded.

**C. the expected power requirement from the prime movers at each station at peak demand (in kilowatts, thousands of cubic feet per hour, or gallons per hour);**

One new pump station will be installed at the new NDPC Clearbrook Terminal near Clearbrook, Minnesota. The expected power requirement from the prime movers at this station at peak demand is:

<b>Table 7853.0530-3-C.1 Power Requirement for the Prime Movers</b>	
<b>Minnesota Station</b>	<b>Power Requirement (MVA)</b>
Clearbrook	8,950

**D. a list of expected sources of supply or shippers of petroleum products for transportation during the first five calendar years of operation, designated either as in-state or as out-of-state, the expected dates and durations of the contracts with the 25 largest suppliers or shippers, the categories of petroleum products and quantities expected to be involved, and for sources of crude oil, the expected geographical areas of origin of the crude oil; and**

**D.1 a list of expected sources of supply or shippers of petroleum products for transportation during the first five calendar years of operation, designated either as in-state or as out-of-state,**

NDPC recently completed a successful open season and executed Transportation Service Agreements for a total of 155,000 bpd (56,575,000 annual bbls) of capacity. The remaining capacity will be offered on a month-to-month basis and each month shippers will nominate the crude oil volumes they seek to transport. Because NDPC's shippers are not under contract, they are not obligated to ship any set volume per month or year. As such NDPC is unable to provide a definitive list of the shippers who will utilize the available capacity for monthly nominations. However, NDPC has compiled a list of the top 25 shippers over the past five calendar years





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(2009-2013) and anticipates that these shippers will continue to utilize the NDPC System to meet their crude oil transportation needs. Further, since NDPC was apportioned during the period from 2009 to 2013, the volumes shipped by these 25 shippers will increase to take the amount that they were otherwise apportioned by. Using an aggregate percentage of 20% and the aggregate volumes for the top 25 shippers in 2013 as a starting point, this would mean that approximately **[TRADE SECRET DATA HAS BEEN EXCISED]** are expected to flow as uncommitted capacity in 2017 and will increase each year as supply grows. Accordingly, the cumulative volume anticipated to flow in 2017 would be **[TRADE SECRET DATA HAS BEEN EXCISED]** for the top 25 shippers.

The top 25 shippers anticipated to ship on the NDPC System over the next five calendar years are randomly listed in Table 7853.0530-3-D.1.

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<b>Table 7853.0530-3-D.1<sup>2</sup></b>		
<b>Top 25 Anticipated Shippers and Anticipated Product Type</b>		
	<b>Shipper</b>	<b>Product Type</b>
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<sup>2</sup> Table 7853.0530-3-D.1 contains Trade Secret data and is available only subject to Protective Order.



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All of the crude oil that will be transported on Sandpiper originates outside Minnesota and is designated as out-of-state.

**D.2 the expected dates and durations of the contracts with the 25 largest suppliers or shippers,**

NDPC anticipates that the shippers, who have signed up for capacity on Sandpiper will enter into contracts for a specified capacity to be transported (or paid for) over a 10-year term beginning when Sandpiper is placed into service.

The remaining capacity will be offered on a common carrier month-to-month basis. Common carriers do not have contracts for shipment. Instead, all shipments are governed by the tariff maintained by Enbridge with the FERC. The tariff is a statement of the “rules and regulations governing the rates and charges” for crude oil transportation and not an individual agreement to ship crude oil for particular shippers.”<sup>3</sup>

If a shipper chooses to utilize common carrier capacity available on Sandpiper, the movement will be on a monthly basis through the nomination process. The Notice of Shipment Date (typically the 20th of each month) is the deadline for any shipper that desires to transport oil on the NDPC System to nominate barrels. The duration of each nomination is one month or approximately 30-days.

**D.3 the categories of petroleum products and quantities expected to be involved, and**

Sandpiper will transport Light Sweet Crude Oil (SW) as listed in NDPC’s FERC Tariff on Rules and Regulations.

<sup>3</sup> See 18 C.F.R. § 341.0(b).



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Commitments of 155,000 bpd were made by shippers for capacity on the NDPC System. The remaining capacity will be offered on a common carrier month-to-month basis. NDPC is unable to provide the volumes of crude that will be transported via monthly nominations but anticipates that the shippers identified in Table 7853.0530-3-D.1 will utilize the additional capacity made available by the Project. In addition, looking at the fact that NDPC was apportioned during the period from 2009 to 2013, the volumes shipped by these 25 shippers is expected to increase to take the amount that they were otherwise apportioned by. Using an aggregate percentage of 20% and the aggregate volumes for the top 25 shippers in 2013 as a starting point, this would mean that approximately **[TRADE SECRET DATA HAS BEEN EXCISED]** are expected to flow as uncommitted capacity in 2017 and will increase each year as supply grows. Accordingly, the cumulative volume anticipated to flow in 2017 would be **[TRADE SECRET DATA HAS BEEN EXCISED]** for the top 25 shippers.

**D.4 for sources of crude oil, the expected geographical areas of origin of the crude oil;**

The primary source of crude oil supply for the NDPC System is the Bakken and Three Forks formations, which span portions of North Dakota and Montana.

**E. a list of expected recipients of the transported petroleum products during the first five calendar years of operation, designated either as in-state or as out-of-state, the expected dates and durations of the contracts with the 25 largest recipients, and the categories of petroleum products and quantities expected to be involved.**

**E.1 a list of expected recipients of the transported petroleum products during the first five calendar years of operation, designated either as in-state or as out-of-state,**

NDPC will deliver crude oil via Sandpiper at the Clearbrook, Minnesota and Superior, Wisconsin terminals. The Clearbrook deliveries are designated as in-state and the Superior deliveries are designated as out-of-state. At these locations crude is delivered to affiliated or third-party pipeline systems and the destinations after delivery are not known to NDPC. While NDPC is not privy to the final destinations of the crude that will be transported, the final destination could be any number of directly or



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indirectly connected refineries shown in Table 7853.0240-C.1 in Section 785.0240.

**E.2 the expected dates and durations of the contracts with the 25 largest recipients, and**

The majority of shippers will move on a month to month basis. Therefore, the expected date and duration of the contracts for the 25 largest recipients would be 30 days. With respect to the commitments received for 155kbpd of capacity, these contracts will begin on the in-service date of Sandpiper and will remain in effect for a 10 year period.

**E.3 the categories of petroleum products and quantities expected to be involved.**

Sandpiper will transport Light Sweet Crude Oil as listed in NDPC's FERC Tariff on Rules and Regulations. See also response to D.3 above, regarding quantities of crude petroleum.