

**PUBLIC VERSION**

**STATEMENT D**

**COMPETITIVE ALTERNATIVES**

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## **ENTERPRISE TE PRODUCTS PIPELINE'S COMPETITIVE ALTERNATIVES**

### **I. Destination Market Competition Alternatives**

#### **A. Little Rock Destination Market**

The suppliers to the Little Rock Destination Market under the 1% criteria delivered price test are three refineries, three pipelines at four locations, and four barge locations. The refineries are Delek with a truck rack at Tyler, TX, Lion Oil with a truck rack at El Dorado, AR, and Valero with a truck rack at Memphis, TN. The pipelines are ConocoPhillips pipeline at Mt. Vernon, MO, Magellan pipeline at Fort Smith, AR and Springfield, MO, and TransMontaigne pipeline at Rogers, AR. Locations served by barges are Little Rock/Pine Bluff, AR, Memphis, TN, Greenville, MS, and Vicksburg, MS. When a 2% criteria delivered price test is applied, the Calumet refinery at Shreveport, LA, the Sunoco pipeline at Center, TX and Waskom, TX, and barges at Arcadia, LA, and Cape Girardeau, MO are added as competitors. Table D.1, page 1, lists the competitive alternatives to Enterprise TE Products Pipeline within the Little Rock Destination Market under the two delivered price test criteria. Table D.1 and the other tables referred to in this Statement are located at the end of this Statement.

#### **B. Arcadia Destination Market**

Under the 1% criteria delivered price test, Enterprise TE Products Pipeline faces competition in the Arcadia Destination Market from the Calumet refinery in Shreveport, LA, Delek refinery in Tyler, TX, Lion Oil refinery in El Dorado, AR, barges delivering to Arcadia and Vicksburg, MS, and the Sunoco pipeline at Center and Waskom, TX. Under the 2% criteria delivered price test, the Valero refinery at Memphis, Magellan pipeline at Fort Smith, AR, barges

at Greenville, MS, Little Rock/Pine Bluff, AR, and Memphis are added as competitors. Table D.1 on page 1 lists the competitive alternatives to Enterprise TE Products Pipeline in the Arcadia Destination Market under the two delivered price test criteria.

### **C. Jonesboro Destination Market**

The suppliers in the Jonesboro Destination Market under the 1% criteria delivered price test are the Lion Oil refinery at El Dorado, AR, the Valero refinery at Memphis, TN, the ConocoPhillips pipeline at Mt. Vernon, MO, Magellan pipeline at Springfield, MO, and barges at Cape Girardeau, Little Rock/Pine Bluff, and Memphis. Under the 2% criteria delivered price test, Magellan pipeline at Fort Smith, AR, TransMontaigne pipeline at Rogers, AR, and barges at Greenville and Vicksburg, MS are added as competitors. Table D.1, page 2, lists the competitive alternatives to Enterprise TE Products Pipeline in the Jonesboro Destination Market under the two delivered price test criteria.

## **II. Measuring Capacity for the Competitive Alternatives to Enterprise TE Products Pipeline**

### **A. Market Data Used**

The relevant measures of capacity for Enterprise TE Products Pipeline, its competitors, and other market participants include the capacity to deliver into the destination markets and the capacity of refineries to produce refined petroleum products in the destination markets.

1 The competitors and other market participants whose market presence must be measured  
2 are:

- 3 • Other pipelines delivering product into and around Enterprise TE Products Pipeline's  
4 destination markets;
- 5 • Refineries in and around Enterprise TE Products Pipeline's destination markets; and
- 6 • Waterborne shipments into and around Enterprise TE Products Pipeline's destination  
7 markets.

## 8 **B. Estimating Current and Potential Market Presence**

### 9 **1. Refinery Capacity and Production**

10 Refineries in the destination markets are direct competitors to Enterprise TE Products  
11 Pipeline. The overall capacity of refineries is estimated by first identifying the relevant refineries  
12 and compiling their crude oil distillation capacity.<sup>1</sup> To account for the fact that not all of the  
13 output of a refinery is pipelineable refined products, the ratio of pipelineable refined products  
14 output to crude oil input for each refinery's refinery district is used to estimate pipelineable

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<sup>1</sup> The Energy Information Administration (EIA) lists refineries by refiner and location and each refinery's crude oil distillation capacity in barrels per calendar day, as of January 1, 2010. Crude oil distillation is the refining process of separating crude oil components at atmospheric pressure by heating the crude oil and subsequent condensing of the fractions by cooling. Distillation capacity per calendar day is amount of crude oil that a distillation facility can process under usual operating conditions. The amount accounts for limitations that may delay, interrupt, or slow down production (*e.g.*, the capability of downstream facilities to absorb the output of the crude oil processing facilities, the types and grades of inputs to be processed; the types and grades of products to be produced; environmental constraints; scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns). See the EIA's Refinery Capacity Report at [http://www.eia.doe.gov/oil\\_gas/petroleum/data\\_publications/refinery\\_capacity\\_data/refcapacity.html](http://www.eia.doe.gov/oil_gas/petroleum/data_publications/refinery_capacity_data/refcapacity.html).

refined product production.<sup>2</sup> Crude oil capacity multiplied by the ratio of pipelineable refined product production to crude oil input is the measure of a refinery's pipelineable refined product production capacity.

Actual refinery production of pipelineable refined products generally is less than capacity (*i.e.*, capacity utilization is less than 100%). To estimate actual refinery production of pipelineable refined products, each refinery's estimated pipelineable refined product capacity is multiplied by the average crude oil utilization rate in its refinery district.<sup>3</sup> Pipelineable refined product capacity multiplied by capacity utilization provides an estimate of refinery pipelineable refined product production. Table D.2 presents these calculations for the refineries in and around Enterprise TE Products Pipeline's destination markets.

## **2. Waterborne Capacity and Shipments**

The Army Corps of Engineers publishes data on the capabilities (capacity) of port facilities which can be used to determine whether current deliveries through a port facility are near full capacity levels. Capacity to ship refined petroleum products into a port is estimated based on the number of docks within each port that handle petroleum products.<sup>4</sup> For each such dock, the size of the

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<sup>2</sup> The EIA lists total refinery input of crude oil and production of finished petroleum products by refinery district. Finished petroleum products which are pipelineable are finished motor gasoline, finished aviation gasoline, jet fuel, kerosene, and distillate fuel oil. Data from 2009 are used to estimate the pipelineable production to crude oil input ratio. See the EIA's Refinery Utilization and Capacity at ([http://tonto.eia.doe.gov/dnav/pet/pet\\_pnp\\_unc\\_a\\_EPXXX2\\_YIY\\_mbbldpd\\_m.htm](http://tonto.eia.doe.gov/dnav/pet/pet_pnp_unc_a_EPXXX2_YIY_mbbldpd_m.htm)) and Refinery Net Production ([http://tonto.eia.doe.gov/dnav/pet/pet\\_pnp\\_refp2\\_dc\\_r3a\\_mbbldpd\\_m.htm](http://tonto.eia.doe.gov/dnav/pet/pet_pnp_refp2_dc_r3a_mbbldpd_m.htm)).

<sup>3</sup> The 2009 utilization rate by refinery district is reported by the EIA at its Refinery Utilization and Capacity webpage ([http://tonto.eia.doe.gov/dnav/pet/pet\\_pnp\\_unc\\_dcu\\_nus\\_m.htm](http://tonto.eia.doe.gov/dnav/pet/pet_pnp_unc_dcu_nus_m.htm)).

<sup>4</sup> The Port Series of the U.S. Army Corps of Engineers details the characteristics of each dock by port, <http://www.iwr.usace.army.mil/ndc/index.htm>.

berthing space and the water depth of the space at the mean low water were compiled. Based on the berthing space's size and water depth, the dock's capacity to handle petroleum products is estimated to be the capacity of the barge or tanker that the dock could handle. The petroleum product capacity of a port is then the sum of its docks' capacities. Many docks handle more than petroleum products. For example, many of the docks at refineries are used to receive crude oil as well as to ship out refined products. Such docks are assumed to be able to ship or receive petroleum products half of the time. Each dock is assumed to be able to handle one barge per day.<sup>5</sup> Table D.3 summarizes the waterborne capacity calculation for the destination market ports and shows the detailed information for each relevant dock in the destination market ports.

Actual waterborne receipts of pipelineable petroleum products for the Enterprise TE Products Pipeline destination markets are compiled from data collected by the U.S. Army Corps of Engineers.<sup>6</sup> Table D.4 shows the receipts at docks in and around Enterprise TE Products Pipeline's destination markets. The most recent waterborne data cover 2008.

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<sup>5</sup> Although many docks have multiple berths, for safety reasons only one berth is used at any time to load or unload petroleum products.

<sup>6</sup> U.S. Army Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 2008, Part 2-Waterways and Harbors Gulf Coast, Mississippi River System and Antilles*, <http://www.iwr.usace.army.mil/ndc/index.htm>.

1 The Army Corps' waterborne movement classifications included are:

- 2 • Foreign imports and exports: traffic between a U.S. foreign trade zone and foreign  
3 countries other than Canada.
- 4 • Canadian imports and export: traffic between a U.S. foreign trade zone and Canada.
- 5 • Domestic receipts and shipments: domestic traffic receiving carriage over the ocean or  
6 the Gulf of Mexico or on internal waterways such as the Mississippi River. Domestic  
7 traffic occurs among Hawaii, Alaska, the 48 contiguous states, Puerto Rico, the Virgin  
8 Islands, Guam, American Samoa, Wake Island, and the U.S. Trust Territories.

9 The Army Corps' classes of commodities that include pipelineable refined petroleum  
10 products are: gasoline (including jet fuel), kerosene, and distillate fuel oil. Petroleum products  
11 loaded from shore facilities directly into bunkers of vessels for fuel are not included in the Army  
12 Corps' compilation of domestic commerce.

### 13 **3. Enterprise TE Products Pipeline's Adjusted Capacity**

14 Enterprise TE Products Pipeline is a large capacity pipeline which receives a large amount  
15 of product in the Gulf Coast and makes deliveries in the South and Midwest. Since a significant  
16 portion of Enterprise TE Products Pipeline's capacity is designed for deliveries in downstream  
17 destination markets, treating all of its capacity as available to make deliveries to upstream markets  
18 (e.g., Little Rock, Arcadia, and Jonesboro) overstates Enterprise TE Products Pipeline's real  
19 ability to make deliveries in these upstream markets. To take into account Enterprise TE  
20 Products Pipeline's downstream commitments to deliver product, Enterprise TE Products  
21 Pipeline capacities for the three destination markets have been adjusted to reflect Enterprise TE



Products Pipeline's actual ability to deliver to the three destination markets. The adjusted capacity for a destination market is the amount of product that could be delivered to that market given the deliveries and receipts that have been made in downstream markets.

The adjusted capacity of the pipeline to make deliveries to a destination market is the excess capacity of the pipeline when it enters the market (*i.e.*, capacity which could have been used to ship product to this market) plus the amount actually delivered to the destination market. The excess capacity of the pipeline when it enters the market is the total capacity of the pipeline when it enters the market less the amount of product already in the pipeline (*i.e.*, throughput entering the market).

Enterprise TE Products Pipeline's adjusted capacity to deliver to its destination markets is shown in Table D.5.

#### **4. Other Pipelines' Capacities**

Other pipelines' capacities to move product into and around Enterprise TE Products Pipeline's three destination markets are estimated using reported capacities or, when these are not available, estimated capacities which are based on the pipelines' diameters. Capacities of many of the pipelines in and around Enterprise TE Products Pipeline's destination markets are reported by the National Petroleum Council (NPC).<sup>7</sup> In the cases where the capacity is not reported by the NPC, it is estimated based on the pipeline's diameter and the normal relationship between capacity and diameter. Capacities of new and proposed pipelines and capacity expansions of

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<sup>7</sup> National Petroleum Council, *Petroleum Storage & Transportation*, Volume V Petroleum Liquids Transportation, Table D-2 "Intra-PADD Petroleum Product Pipeline Capacities as of December 31, 1987." The summer normal mix is used as the measure of capacity.

- 1 existing pipelines are tracked through recent news articles and corporate press releases. Table
- 2 D.6 shows the capacities of all the relevant pipelines in and around Enterprise TE Products
- 3 Pipeline's destination markets.

**Table D.1 - Page 1 of 2**  
**Destination Markets Competitive Alternatives**

**I. Little Rock, AR**

- a. Under the 1% criteria delivered price test
  - Delek Refinery at Tyler, TX
  - Lion Oil Refinery at El Dorado, AR
  - Valero Refinery at Memphis, TN
  - ConocoPhillips Pipeline at Mt. Vernon, MO
  - Magellan Pipeline at Fort Smith, AR
  - Magellan Pipeline at Springfield, MO
  - TransMontaigne Pipeline at Rogers, AR
  - Barges at Little Rock/Pine Bluff, AR
  - Barges at Greenville, MS
  - Barges at Memphis, TN
  - Barges at Vicksburg, MS
- b. Additional competitors under the 2% criteria
  - Calumet Refinery at Shreveport, LA
  - Sunoco Pipeline at Center, TX
  - Sunoco Pipeline at Waskom, TX
  - Barges at Arcadia, LA
  - Barges at Cape Girardeau, MO

**II. Arcadia, LA**

- a. Under the 1% criteria delivered price test
  - Calumet Refinery at Shreveport, LA
  - Delek Refinery at Tyler, TX
  - Lion Oil Refinery at El Dorado, AR
  - Sunoco Pipeline at Center, TX
  - Sunoco Pipeline at Waskom, TX
  - Barges at Arcadia, LA
  - Barges at Vicksburg, MS
- b. Additional competitors under the 2% criteria
  - Valero Refinery at Memphis, TN
  - Magellan Pipeline at Fort Smith, AR
  - Barges at Greenville, MS
  - Barges at Little Rock/Pine Bluff, AR
  - Barges at Memphis, TN

**Table D.1 - Page 2 of 2**  
**Destination Markets Competitive Alternatives**

**III. Jonesboro, AR**

- a. Under the 1% criteria delivered price test
  - Lion Oil Refinery at El Dorado, AR
  - Valero Refinery at Memphis, TN
  - ConocoPhillips Pipeline at Mt. Vernon, MO
  - Magellan Pipeline at Springfield, MO
  - Barges at Cape Girardeau, MO
  - Barges at Little Rock/Pine Bluff, AR
  - Barges at Memphis, TN
- b. Additional competitors under the 2% criteria
  - Magellan Pipeline at Fort Smith, AR
  - TransMontaigne Pipeline at Rogers, AR
  - Barges at Greenville, MS
  - Barges at Vicksburg, MS

**Sources:**

MapSearch, *Refined Products Atlas of the United States and Canada*, 5th Edition, 1997;  
OPIS/Stalsby, *Petroleum Terminal Encyclopedia*, 2010.

**Table D.2**  
**Estimated Pipelineable Petroleum Product Capacity And Output By Refinery**

Company	Location	Refinery District	January 1, 2010 Crude Capacity (MBD)	Percent Output of Pipelineable Refined Products	Pipelineable Refined Product Capacity (MBD)	Operable Utilization Rate	Estimated Output of Pipelineable Refined Products (MBD)
Lion Oil	El Dorado, AR	NLA-AR	75.0	58.5%	43.9	70.5%	30.9
Calumet	Shreveport, LA	NLA-AR	60.0	58.5%	35.1	70.5%	24.8
Valero	Memphis, TN	IN-IL-KY	180.0	52.4%	94.3	85.1%	80.2
Delek	Tyler, TX	TX Inland	58.0	56.2%	32.6	85.5%	27.9

**Addenda:**

**Refining District Statistics (Annual Thousands of Barrels), 2009**

	Refining District		
	IN-IL-KY	NLA-AR	TX Inland
Refinery Input of Crude Oil	731,339	62,200	203,507
Refinery Net Production			
Finished Motor Gasoline	138,532	11,878	93,769
Finished Aviation Gasoline	74	2,933	531
Jet Fuel	55,835	2,933	14,083
Kerosene	146	75	82
Distillate Fuel Oil	188,449	18,584	5,880
Total Pipelineable Petroleum Products	383,036	36,403	114,345
Percent Output of Pipelineable Petroleum Products	52.4%	58.5%	56.2%
Operable Utilization Rate	85.1%	70.5%	85.5%

Sources:

Energy Information Administration ([www.eia.doe.gov](http://www.eia.doe.gov)) 2010 Refinery Capacity Report, 2009 Refinery Net Input, 2009 Refinery Net Production, and Refinery Utilization and Capacity; Calumet 2009 10-K, p.10.

**Table D.3 - Page 1 of 3**  
**Estimated Waterborne Pipelineable Petroleum Product Capacity**  
**For Enterprise TE Products Pipeline's Destination Markets**

	Daily Total Port Capacity (Barrels)	Storage Capacity (Barrels)	Number of <u>Docks</u>
Little Rock Area	70,000	411,000	3
Arcadia Area	70,000	967,000	3

**Table D.3 - Page 2 of 3**  
**Estimated Waterborne Pipelineable Petroleum Product Capacity For Enterprise TE Products Pipeline's Destination Markets**

PWD	Owner	Purpose	Depth Alongside at MLW (Feet)	Minimum Berthing Space (Feet)	Daily Capacity (barrels)	Storage Capacity (barrels)	Remarks
<b>Little Rock-Pine Bluff, AR (Ports on the Arkansas, Red, and Ouachita Rivers Systems and Missouri River)</b>							
64	Little Rock Port Authority Oil Pier - Little Rock, AR	Receipt of fuel oil; receipt of bulk cement.	12	225	17,500	198,000	Safety-Kleen Corp.: Three 10-inch pipelines extend from wharf to 5 steel storage tanks at terminal 2,500 feet in rear, total capacity 198,000 barrels. River Co.: One 8- and one 6-inch pneumatic pipelines extend from wharf to 2 cement storage tanks at rear, total capacity 3,400 tons, unloading rate 80 tons.
71	Center Point (formerly owned by Petroleum Fuel and Terminal Co.), North Little Rock Division Dock	Receipt of petroleum products	14	195	35,000	138,000	N.A.
51	Center Point (formerly owned by Petroleum Fuel and Terminal Co.), Pine Bluff Terminal Dock - Pine Bluff, AR	Receipt of diesel fuel and caustic soda.	13	300	17,500	75,000	One 8-inch pipeline extends from wharf to 2 diesel fuel storage tanks, total capacity 75,000 barrels, and one 8-inch pipeline extends to 2 caustic soda storage tanks, total capacity 2,100,000 gallons.
Daily Total Port Capacity (Barrels)					70,000	411,000	
Daily Capacity per Dock (Barrels)					23,333	137,000	
Number of Docks					3		
<b>Arcadia-Shreveport, LA (Ports on the Arkansas, Red, and Ouachita Rivers Systems and Missouri River)</b>							
24	Sunshine Oil & Storage Dock - Rilla, LA	Receipt and shipment of petroleum products	19	195	17,500	500,000	One 10- four 8 and two 6-inch pipelines extend to wharf from 8 steel storage tanks at rear, total capacity 500,000 barrels.
13	Caddo/Bossier Port Commission Liquid Commodities Dock - Shreveport, LA	Receipt of petroleum products, caustic soda and ethylene glycol.	12	500	17,500	127,000	Two 12- and one 6- inch pipelines extend from wharf to 7 steel storage tanks at terminal in rear, total capacity 127,000 barrels. One 4-inch compressed air pipeline also serves wharf.
15	Caddo/Bossier Port Commission Petroleum Dock - Shreveport, LA	Receipt of petroleum products	12	500	35,000	340,000	Four 12-inch pipelines extend from wharf to 10 steel storage tanks at terminal in rear, total capacity 340,000 barrels. One 6-inch slop-; one 3-inch steam- and one 1-inch nitrogen lines also serves wharf.
Daily Total Port Capacity (Barrels)					70,000	967,000	
Daily Capacity per Dock (Barrels)					23,333	322,333	
Number of Docks					3		

**Table D.3 - Page 3 of 3**  
**Estimated Waterborne Pipelineable Petroleum Product Capacity For Enterprise TE Products Pipeline's Destination Markets**

Sources: U.S. Army Corps of Engineers, Navigation Data Center, Summarized Port Series Reports, Port Series No. 68, Ports on the Arkansas, Red, and Ouachita Rivers Systems and Missouri River (<http://www.iwr.usace.army.mil/ndc/ports/ps/psbooks.htm>); World Point Terminals, Inc., Annual Information Form, Fiscal Year Ended December 31, 2007, March 26, 2008

Note: The size of the barge which can berth at a dock is assigned based on the depth at the dock and the berthing space. A dock is assumed to be able to handle one barge each day. The table below shows the size and capacity of the barge according to the dock characteristics.

If depth alongside is less than 8 feet:			Small barge (20.0 MB capacity)	
If depth alongside is greater than 8 feet:				
			pipelines are smaller than 8"	pipelines are 8" or larger
berthing space < 200 ft.	195-ft. barge (25.0 MB capacity)			275-ft. barge (50.0 MB capacity)
200 ft. < berthing space < 350 ft.	275-ft. barge (50.0 MB capacity)			350-ft. barge (100.0 MB capacity)
berthing space > 350 ft.	275-ft. barge (50.0 MB capacity)			350-ft. barge (100.0 MB capacity)

If a dock handles other commodities in addition to petroleum products, then the dock is assumed to handle petroleum products half the time and the dock capacity listed in the above table is divided in half. The largest barge able to navigate the Arkansas or Ouachita Rivers is assumed to have a capacity of 35,000 barrels.



**Table D.4**  
**Waterborne Traffic, 2008**

**I. Little Rock-Pine Bluff Area**

	Thousand Short Tons			MBD
	Gasoline	Kerosene	Distillate	Total
McClellan-Kerr Arkansas River	0	0	309	5.714

**II. Arcadia- Shreveport Area**

	Thousand Short Tons			MBD
	Gasoline	Kerosene	Distillate	Total
Ouachita and Black Rivers, AR and LA	214	0	121	6.762
J. Bennett Johnston Waterway (Red River)	0	0	14	0.259
<b>Total</b>	<b>214</b>	<b>0</b>	<b>135</b>	<b>7.021</b>

**III. Barge/Tanker Terminals At Other Locations**

	Thousand Short Tons			MBD
	Gasoline	Kerosene	Distillate	Total
Memphis, TN	639	1,322	21	39.228
Metropolitan St. Louis, MO	118	0	401	9.910
Greenville, MS	293	0	277	11.317
Vicksburg MS	206	0	136	6.870

**Notes:**

The Army Corps includes jet fuel with gasoline

Receipts: Short tons are converted to barrels using conversion factors below and divided by the 366.

Conversion Factors (Barrels per Short Ton)

Motor Gasoline	7.738
Kerosene	7.013
Distillate	6.768

Sources: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States, Part 2- Waterways and Harbors Gulf Coast, Mississippi River System and Antilles, 1997-2008*,

<http://www.iwr.usace.army.mil/ndc/data/datawcus.htm>.

Energy Information Administration, *International Energy Annual 2006*,

Petroleum Conversion Factors, <http://www.eia.doe.gov/emeu/iea/tablec1.html>.

**Table D.5 [PUBLIC]  
Enterprise TE Products Pipeline Capacity Available  
in the Arcadia to Jonesboro Area**

**I. Excess capacity from Beaumont to El Dorado**

Capacity	Confidential Information Redacted
+Receipts at Arcadia	
-Deliveries to Arcadia of Refined Products and LPGs	
Throughput at El Dorado	
<hr/> Available to All Markets	52.721

**II. Plus: Total Deliveries Less: Deliveries from Local Sources  
Constrained by Pipeline Capacity**

	<u>Arcadia</u>
Total Deliveries of Refined Products	Confidential Information Redacted
Total Local Deliveries of Refined Products	
Non-Local Deliveries of Refined Products	
Available Capacity	
Pipeline Capacity	
<hr/> Available Capacity Constrained by Pipeline Capacity	69.801

	<u>Little Rock</u>
North Little Rock	Confidential Information Redacted
Little Rock AFB	
Total Deliveries of Refined Products	
El Dorado Deliveries of Refined Products to North Little Rock	
Total Local Deliveries of Refined Products	
Non-Local Deliveries of Refined Products	
Available Capacity	
Pipeline Capacity	
<hr/> Available Capacity Constrained by Pipeline Capacity	121.558

	<u>Jonesboro</u>
Total Deliveries of Refined Products	Confidential Information Redacted
El Dorado Deliveries of Refined Products to Jonesboro	
Non-Local Deliveries of Refined Products	
Available Capacity	
Pipeline Capacity	
<hr/> Available Capacity Constrained by Pipeline Capacity	60.162

Sources: Enterprise TE Products Pipeline.

**Table D.6**  
**Destination Markets Estimated Pipeline Capacities**

Pipeline	Estimated Capacity (MBD)	Terminal City	Source
ConocoPhillips	55.0	Mt. Vernon, MO	ConocoPhillips Factbook 2009
Magellan Pipeline	57.0	Fort Smith, AR	NPC
Magellan Pipeline	14.0	Mount Pleasant, TX	NPC
Magellan Pipeline	34.0	Springfield, MO	NPC
Sunoco	90.0	Center, TX	Sunoco Logistics website
Sunoco	80.0	Waskom, TX	Sunoco Logistics website
TransMontaigne	32.0	Rogers, AR	Estimate (8" diameter)

Other Sources:

NPC: National Petroleum Council (NPC), *Petroleum Storage & Transportation, Volume V Petroleum Liquids Transportation*, April 1989, Table D-2;

MapSearch, *Refined Product Atlas of the United States & Canada*, 5th edition, 1997.

**Estimate Table**

Pipeline Diameter (inches)	Capacity (MBD)	Calculation Method
6	18	$\text{Diameter}^2 \times 500$
8	32	$\text{Diameter}^2 \times 500$
10	50	$\text{Diameter}^2 \times 500$
12	77	$\text{Diameter}^2 \times 533$
14	111	$\text{Diameter}^2 \times 566$
16	154	$\text{Diameter}^2 \times 601$
18	195	$\text{Diameter}^2 \times 601$
20	225	Average of NPC data
24	290	Average of NPC data