



**Dakota Access, LLC  
Crude Oil Pipeline Project  
ND/ SD Pipeline Seminar**

**Chad Arey  
Sr Manager, Operations  
Longview, TX  
903-295-0555**



# Agenda

- Company Overview
- Project Overview
- Pipeline Operations and Safety
- Leak Prevention
- Emergency Response Planning

# Company Overview

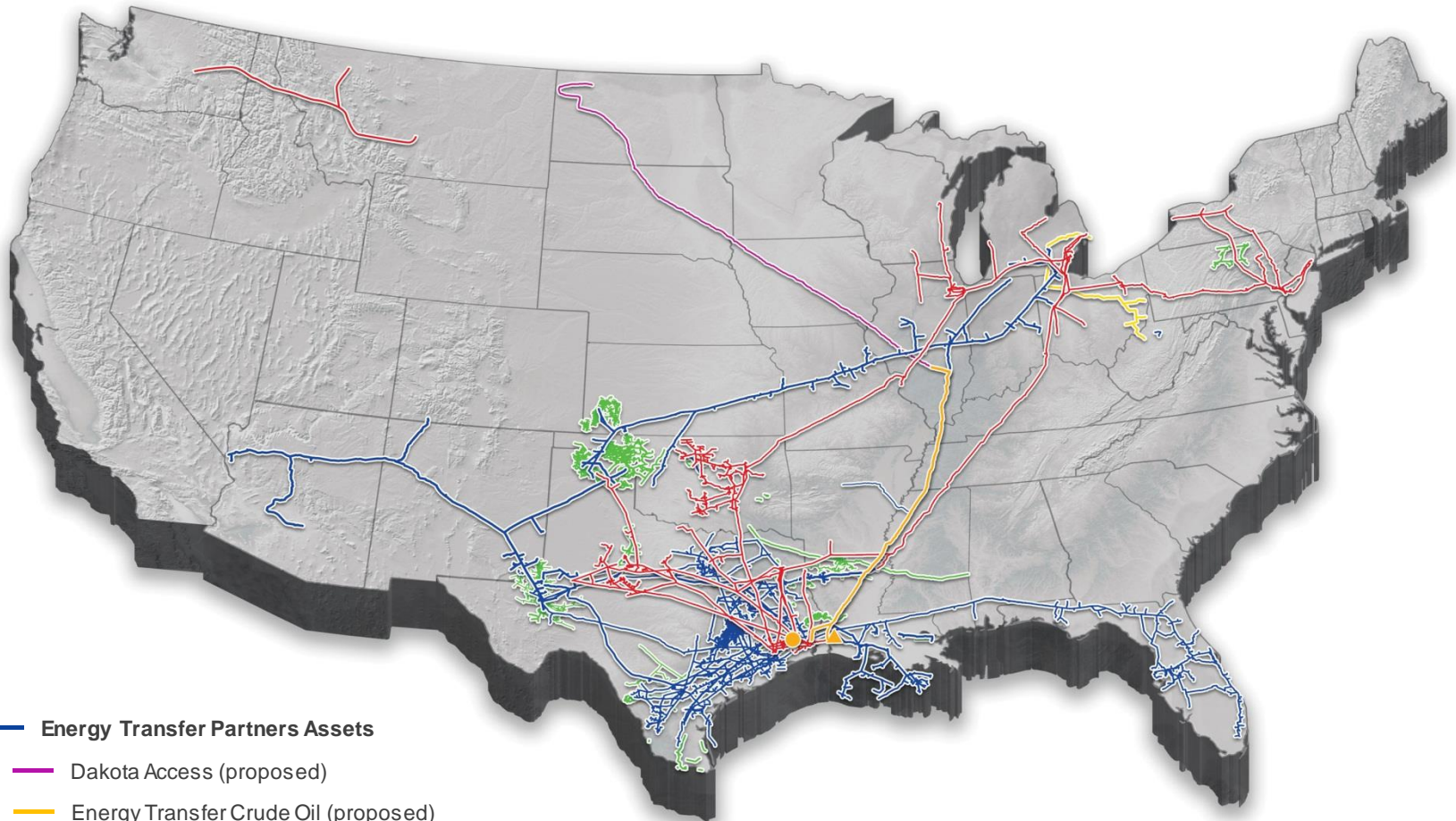


- The Energy Transfer family is a diversified organization comprised of:
- Energy Transfer Equity, L.P. (NYSE:ETE) is a master limited partnership which owns the general partner of ETP
- Energy Transfer Partners, L.P. (NYSE:ETP) is a master limited partnership owning one of the largest and most diversified portfolios of energy assets in the United States with intrastate transportation and storage, interstate transportation, midstream operations and fractionation and liquids transportation operations.
- Sunoco Logistics Partners, L.P. (NYSE:SXL) is a master limited partnership that owns and operates a diverse mix of crude oil and refined products pipelines, terminals and storage facilities, as well as crude oil acquisition and marketing assets.

## **Fully consolidated, ETE owns:**

- Approximately 71,000 miles of natural gas and Natural Gas Liquids (NGL), refined products, and crude oil pipelines today.
- Fifty-one (51) natural gas processing, conditioning, and treating facilities
- One hundred forty-two (142) Billion cubic feet (Bcf) of natural gas storage capacity
- Forty-seven (47) million barrels of crude oil terminal capacity
- Two (2) NGL fractionators (one (1) more under construction)
- One of North America's largest liquefied natural gas import terminals

# Company Overview



- Energy Transfer Partners Assets
- Dakota Access (proposed)
- Energy Transfer Crude Oil (proposed)
- ET Rover Pipeline (proposed)
- Regency Energy Partners Assets
- Sunoco Logistics Assets



## Project Objective

- New Pipeline to Deliver 100% Domestically Produced Crude to U.S. Refineries. 1,134 mile pipeline system to safely carry up to 570,000 barrels per day of U.S. crude from rapidly expanding Bakken and Three Forks production areas through the states of North Dakota, South Dakota, Iowa and Illinois terminating at a crude oil hub near Patoka, Illinois
- Interconnect with third-parties for re-delivery of crude oil to processing facilities and refineries located in the Midwest and Gulf Coast for production of motor fuels and other crude oil derivatives that support the U.S. economy

## Project Scope

- Overall, construct approximately 1,134 miles of 12-inch to 30-inch diameter pipeline through the states of North Dakota, South Dakota, Iowa and Illinois ultimately terminating near Patoka, Illinois. Scope also includes building up to 6 terminals in North Dakota as gathering or pool points for receipt and delivery into the proposed pipeline
- Maximum Operating Pressure of 1,440 psi

# Project Overview



# DAPL Project North Dakota

**Legend**

- ★ DAPL Terminals
- ⋯ Dakota Access Pipeline
- Project Counties
- Project States

Trenton  
Williams  
Epping  
Ramberg  
Stanley  
Watford City  
Johnson Corner

North Dakota

Morton

Emmons

ENERGY TRANSFER

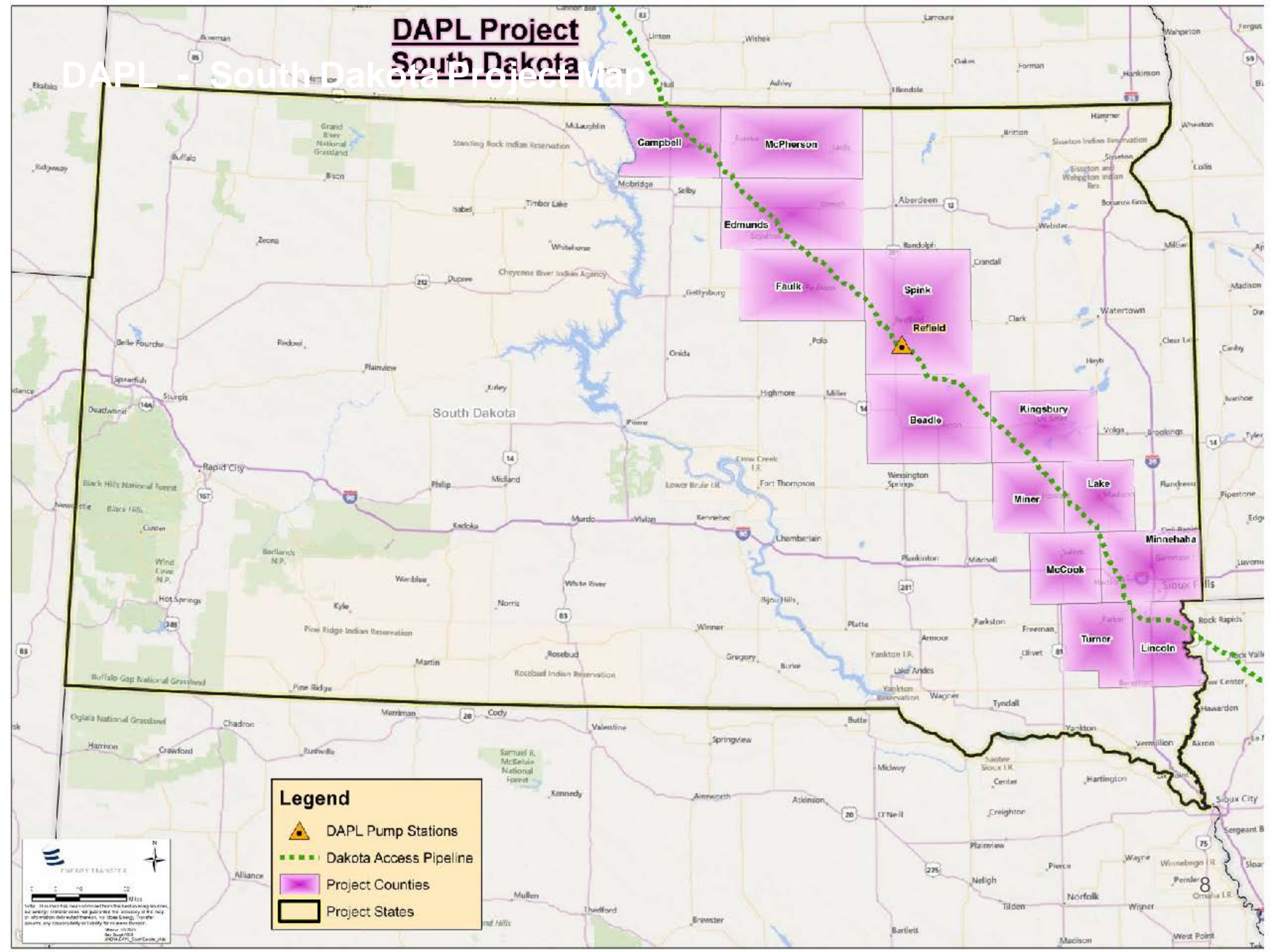
0 5 10 20 Miles

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Gas Supply/GIS  
60014-DAPL\_NorthDakota

# DAPL Project South Dakota Project Map

## DAPL - South Dakota Project Map



**Legend**

- DAPL Pump Stations
- Dakota Access Pipeline
- Project Counties
- Project States

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Scale: 0 5 10 20 Miles

North arrow

Note: This map has been prepared from the best available information. Energy Transfer does not warrant the accuracy of the map or information displayed hereon, its use, or the results of any use. Energy Transfer is not responsible for liability for its use. © 2010 Energy Transfer Partners LP. All rights reserved.





## Project Benefits

- \$3.78 Billion investment into the overall US economy
- Gulf Coast and Midwest refineries will have additional access to North American crude oil production which will reduce our reliance on unreliable foreign oil imports
- Reduces truck and rail utilization for crude oil transportation which increases overall safety to the public and the environment
- Free-up rail capacity for commodity crop transportation currently curtailed by crude cargos



## The pipeline route was selected considering the following

- Length of pipeline
- Following existing pipeline / utility ROW corridors to the extent possible to minimize potential impacts
- Avoiding environmentally sensitive areas
- Major water crossings
- Topography constraints
- Population Density
- Industrial Development Areas



## Pipeline Control

- Located in Sugar Land, TX
- 24/7 Pipeline Controller Monitoring
- Trained pipeline control operators continuously monitor pressure, flow, temperature, and other operating data to provide real time oversight of pipeline operations

## Supervisory Control and Data Acquisition (SCADA)

- Provides pressure, flow, temperature, and other operating data in real time to allow continuous oversight of pipeline operations
- Monitors Over Pressure Safety Devices (OSD) such as pressure switches, surge relief valves, pressure and temperature transmitters and flow measurement devices to protect the Maximum Operating Pressure (MOP)
- Provides warnings and alarms when operating data nears minimum and maximum operating set points
- Allows for the remote operation of key equipment including pump stations and isolation valves



## Leak Detection – Computational Pipeline Monitoring (CPM)

- CPM uses SCADA data to perform real time hydraulic modeling for leak detection warning

## Main Line Block Valves

- Valves throughout pipeline system designed for emergency response and shut off
- Located to minimize impact in the event of an incident
  
- Current design:
  - ND: 42 MLVs, all automated for remote operation
  - SD: 31 MLVs, all automated for remote operation

# DAPL – Leak Prevention



**Will maintain and follow numerous written programs and plans that are required under 49 CFR 194, 195 and 199**

**Provide framework to construct, operate and maintain DAPL in a manner that protects the safety of our employees, customers and the public**

## **Major programs and plans include**

- DOT Maintenance Manual
- Integrity Management Plan
- Operator Qualification Plan
- Public Awareness Plan
- Damage Prevention Plan
- Control Room Management Plan
- Facility Response Plans
- Anti-Drug Plan and Alcohol Misuse Prevention Plan



## Integrity Management Plan (IMP)

- DAPL's IMP will meet or exceed the regulatory requirements in 49 CFR 195.452
- Pipeline will be on a five year integrity assessment cycle
- Integrity assessments
  - In Line Inspections via specialty pigs: capable of detecting deformations, corrosion and other defects in the pipe
  - hydrostatic pressure tests
- Repairs are completed proactively as areas of concern are identified

## Maintenance Pigging Program

- DAPL will employ a routine maintenance pigging program
- Cleaning pigs will be selected based upon the characteristics of the pipeline and run on a routine basis
- Assists in maintaining the internal surface and overall integrity of the pipeline

# DAPL – Emergency Response Planning



- DAPL will have an Emergency Response Plan in place that must be submitted to both the Federal DOT and the State before the pipeline begins operations
- The Plan will identify trained company personnel, contractors, equipment, and supplies to be used in a leak response
- The Plan will identify all notifications to be made at the local, State, and Federal levels
- Emergency response drills, ranging from table top simulations to full equipment deployment, will be conducted on a regular basis as determined by the Emergency Response Plan



## Incident Management Team (IMT)

- 4 Teams across US
- Available for 24/7 response
- Highly trained both in specific ICS roles and company assets
- Staffed with all key Incident Command System (ICS) positions
- Backups for each position trained and available
  
- Drill annually as a team across company assets
- Utilize industry companies to train and drill teams



# DAPL – Emergency Response Planning



## **We are committed to outreach to emergency responders in the communities where DAPL is located**

*Includes mutual aid companies*

- Hold annual sessions on pipeline awareness & emergency response
- Review the fundamentals of responding to pipeline incidents
  - Avoiding pipeline incidents
  - Spills
  - Fires
  - ICS/Unified Command
  - What we will do during an incident and what we need local responders to do
- Annual distribution of pipeline safety material to emergency response organizations



**Initial County Meetings have been held in every county along the proposed pipeline route**

## **Examples of Questions / Dialogue with Counties:**

- What resources are available in your county to respond to a pipeline incident?
  - Foam capabilities
  - Booming
  - Industrial/petroleum CO-OP with resources in the county
  - Any local OSROs (Oil Spill Response Organizations) you are familiar with
  - Major local civil contractors that have heavy equipment that might be useful for spill response
  
- What is the best way to reach emergency responders in your county and offer training and pipeline information?
  
- What organizations and individuals should we work with for future outreach to responders

Thank You!

