

**AGENCY CONSULTATION AND COORDINATION**

**GLOSSARY**

**REFERENCES**

## Agency Consultation and Coordination

### FEDERAL

U.S. Army Corps of Engineers – Kansas City District  
U.S. Army Corps of Engineers – St. Louis District  
U.S. Army Corps of Engineers – Omaha District  
U.S. Army Corps of Engineers – North Dakota Regulatory Program  
U.S. Army Corps of Engineers – South Dakota Regulatory Program  
U.S. Army Corps of Engineers – Nebraska Regulatory Program  
U.S. Army Corps of Engineers – Missouri Regulatory Program  
U.S. Army Corps of Engineers – Tulsa District  
U.S. Fish and Wildlife Service  
U.S. Department of Agriculture – NRCS  
National Parks Service

### NORTH DAKOTA

North Dakota Department of Health  
North Dakota Public Service Commission  
North Dakota Game and Fish Dept  
North Dakota State Heritage Program  
NRCS North Dakota State Office  
North Dakota State Water Commission/Office of State Engineer  
North Dakota State Historical Society/State Historical Preservation Office (SHPO)  
North Dakota Board of Registration for Professional Soil Classifiers  
North Dakota Farm Service Agency

### SOUTH DAKOTA

South Dakota Dept of Environment and Natural Resources  
South Dakota Game, Fish and Parks  
South Dakota State Heritage Program  
South Dakota Public Utilities Commission  
South Dakota Office of School and Public Lands  
South Dakota Governor's Office of Economic Development  
South Dakota Department of Transportation  
South Dakota Farm Service Agency  
South Dakota State Historical Society/State Historical Preservation Office (SHPO)  
NRCS South Dakota State Office

### NEBRASKA

Nebraska Dept of Natural Resources  
Nebraska Dept of Environmental Quality  
Nebraska State Heritage Program  
Nebraska Game and Parks Commission  
Nebraska Natural Resource District  
Nebraska Department of Roads  
Nebraska Farm Service Agency

Nebraska State Historical Society/State Historical Preservation Office (SHPO)  
NRCS Nebraska State Office

### **KANSAS**

Kansas Department of Health & Environment  
Kansas Department of Wildlife and Parks  
Kansas State Heritage Program  
Kansas Department of Agriculture  
Kansas Department of Transportation  
Kansas Corporate Commission  
Kansas Farm Service Agency

Kansas State Historical Society/State Historical Preservation Office (SHPO)  
NRCS Kansas State Office

### **MISSOURI**

Missouri Department of Conservation  
Missouri State Heritage Program  
Missouri Department of Transportation  
Missouri Department of Natural Resources  
Missouri Farm Service Agency

Missouri State Historical Society/State Historical Preservation Office (SHPO)  
NRCS Missouri State Office

### **ILLINOIS**

Illinois Department of Natural Resources  
Illinois Department of Transportation  
Illinois Commerce Commission  
Illinois Environmental Protection Agency  
Illinois Department of Agriculture  
Illinois Farm Service Agency  
Illinois Historic Preservation Agency (SHPO)  
NRCS Illinois State Office

### **OKLAHOMA**

Oklahoma Department of Environmental Quality  
Oklahoma Department of Transportation  
Oklahoma State Heritage Program  
Oklahoma Department of Wildlife Conservation  
Oklahoma Farm Service Agency  
Oklahoma Archaeological Survey  
NRCS Oklahoma State Office

## **NATIVE AMERICAN CONSULTATION**

### **NORTH DAKOTA**

Three Affiliated Tribes  
Spirit Lake  
Standing Rock Sioux  
Turtle Mountain Chippewa

### **SOUTH DAKOTA**

Cheyenne River  
Flandreau Santee Sioux Tribe  
Oglala Sioux  
Rosebud Sioux  
Yankton Sioux  
Sisseton-Wahpeton Oyate  
Crow Creek Sioux  
Lower Brule Sioux

### **NEBRASKA**

Omaha Tribe of Nebraska and Iowa  
Pawnee Nation of Oklahoma  
Santee Sioux Nation  
Delaware Nation  
Iowa Tribe of Kansas and Nebraska  
Iowa Tribe of Oklahoma  
Kaw Indian Tribe of Oklahoma  
Ponca Tribe of Nebraska  
Sac and Fox of the Missouri in Kansas and Nebraska  
Sac and Fox Nation of Oklahoma  
Sac and Fox Tribe of the Mississippi in Iowa  
Winnebago Tribe  
Otoe-Missouria Tribe of Indians, Oklahoma

### **MISSOURI**

Iowa Tribe of Kansas and Nebraska  
Iowa Tribe of Oklahoma  
Sac and Fox of the Missouri in Kansas and Nebraska  
Sac and Fox Nation of Oklahoma  
Sac and Fox Tribe of the Mississippi in Iowa  
Choctaw Nation of Oklahoma  
Jena Band of Choctaw Indians  
Eastern Shawnee Tribe of Oklahoma  
Miami Tribe of Oklahoma  
Muscogee (Creek) Nation of Oklahoma  
Kaw Indian Tribe of Oklahoma  
Delaware Nation  
Cherokee Nation of Oklahoma

Quapaw Tribe of Oklahoma  
Absentee-Shawnee Tribe of Indians of Oklahoma

**ILLINOIS**

Peoria Tribe of Indians of Oklahoma  
Montana (tribes with traditional ties to the project area)  
Crow  
Fort Peck  
Northern Cheyenne

## GLOSSARY

<b>alluvial</b>	material composed of riverbed or delta material.
<b>ancillary facilities</b>	facilities associated with the pipeline system, including pump stations, delivery facilities, valves, etc.
<b>aquifer</b>	a layer of underground sand, gravel, or porous rock in which water collects; a source of groundwater.
<b>barrel</b>	42 gallons of crude oil.
<b>block valve</b>	a valve that can block the flow of crude oil in both directions within the pipeline when closed.
<b>cathodic protection</b>	a method to reduce corrosion by an electrochemical process that makes the pipe the cathode and is thereby protected from corrosion metal loss.
<b>corrosion</b>	an electrochemical process that occurs when steel is exposed to an electrolyte, such as soil or water. Corrosion occurs along the internal or external surface of the pipe and gradually can result in metal loss. Corrosion is reduced by cathodic protection and pipeline coatings. Corrosion is monitored by internal inspection tools (internal and external) and corrosion coupons (internal).
<b>depth of cover</b>	for new construction, the burial depth typically would be 48 inches from the top of the pipe to the natural grade.
<b>distribution powerline</b>	an electrical powerline designed to transmit 69,000 volts (69 kV) or less.
<b>easement</b>	a legal instrument, usually negotiated with the landowner, that is used to convey a right-of-way to the pipeline company. The easement gives the pipeline company the right to operate and maintain its pipeline in the permanent ROW and, in return, compensates the landowner for the use of the land.
<b>eminent domain</b>	the right of the government to take private property for public use after providing just compensation by virtue of the sovereign power over all lands within its jurisdiction.

<b>fugitive dust</b>	a non-point source of air pollution, such as from unpaved roads, agricultural croplands, and construction sites.
<b>High Consequence Areas (HCAs)</b>	OPS-defined areas subject to the Integrity Management Rule. HCAs include high-density population areas, waters where commercial navigation occurs, and areas that are unusually sensitive to environmental damage.
<b>horizontal directional drilling</b>	technology used for vertical drilling has been modified for the horizontal installation of pipelines beneath major obstacles, such as railroads, highways, and large rivers.
<b>hydrostatic testing</b>	Pressure testing of a pipeline to test its structural integrity. Typically the line is tested to at least 125 percent of the MOP and the pressure is held for 8 hours. Hydrostatic testing is a destructive test to evaluate the integrity of the pipe by attempting to cause the failure of critical defects that might be present in the wall of the pipe. A pipe that passes this test is considered safe to operate at pressures less than or equal to the MOP.
<b>impressed current cathodic protection</b>	cathodic protection that uses an external power source to place a small electrical charge on the steel pipe to prevent external corrosion (requires the use of rectifiers).
<b>Integrity Management Rule</b>	as defined in 49 CFR 195.450 and 195.452, this OPS rule increases requirements for inspection, enhanced damage protection, improved emergency response, and other measures to prevent and mitigate pipeline leaks in HCAs.
<b>internal inspection tool</b>	a “smart pig,” tools that assess the pipeline’s integrity.
<b>kV</b>	kilovolts; 1,000 electrical volts.
<b>LC<sub>50</sub></b>	A measure of acute toxicity. The concentration of a compound necessary to cause 50 percent mortality in laboratory test organisms within a predetermined time period (e.g., 96 hours).
<b>L<sub>dn</sub></b>	Day-night (average sound) level.
<b>Maximum Operating Pressure (MOP)</b>	a rating indicating the maximum pressure at which a pipeline or segment of a pipeline may be operated

	under the OPS regulations in normal conditions (40 CFR § 195.406 MOP). The MOP is defined as 80% of the hydrostatic test pressure. It is also called the pressure rating.
<b>meters</b>	devices that measure the amount of crude oil transported and delivered to terminals.
<b>oil sand(s)</b>	a composition of sand, bitumen, mineral rich clays, and water. Bitumen, in its raw state is a black, asphalt-like oil. It requires upgrading to make it transportable by pipeline and usable by conventional refineries.
<b>one-call systems</b>	a system by which operators and other underground utility operators have joined together in state-level one-call notification programs. The program acts as a clearinghouse of information to excavators, which and marks the location of underground utilities prior to excavation.
<b>pigging facility</b>	short sections of pipe controlled by valves that interconnect with the main pipeline to launch and receive cleaning and inspection tools (“pigs”) that travel inside the pipeline.
<b>pump station</b>	ancillary facility where pumps are used to maintain pipeline pressure required to move crude oil through the pipeline.
<b>right-of-way (ROW)</b>	a legal right of passage over another’s property. Typically, the ROW would consist of a 50-foot-wide permanent ROW and, during construction, an additional 60-foot construction ROW. After construction and reclamation, the permanent ROW would revert to a 50-foot-wide corridor.
<b>SCADA</b>	Supervisory Control and Data Acquisition; computerized system that monitors and analyses the flow rate, temperature, and density of the crude oil within the pipeline every 3 to 5 seconds, notifying operators of any operating abnormalities. The SCADA system is linked to pump stations and allows the operator to remotely close valves.

Sediment Quality Category

<b>Tier 1</b>	sediment contamination associated with probable adverse effects on aquatic life or human health.
<b>Tier 2</b>	sediment contamination associated with possible adverse effects on aquatic life or human health.
<b>Tier 3</b>	sediment contamination with no indication of adverse effects on aquatic life or human health.
<b>smart pig</b>	An internal inspection tool that passes inside a pipe and contains electronic devices capable of measuring pipe integrity.
<b>Specified Minimum Yield Strength (SMYS)</b>	a measure of pipeline strength.
<b>synthetic crude oil</b>	a high-quality product resulting from the mining, extraction, and upgrading of bitumen.
<b>temporary workspace</b>	areas located outside the construction ROW where additional space is required for construction.
<b>terminal</b>	a facility along the pipeline where crude oil is stored and distributed.
<b>transmission powerline</b>	an electrical powerline designed to transmit more than 69,000 volts (69 kV) of energy.
<b>upgrading</b>	The conversion of heavy bitumen into a lighter crude oil by increasing the ratio of to carbon, either by removing carbon (coking) or adding hydrogen (hydroprocessing).

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