

Keystone Pipeline Project Environmental Report

Prepared for the
Department of State

April 2006
Updated November 15, 2006





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November 15, 2006

Elizabeth A. Orlando
Office of Environmental Policy
U.S. Department of State
OES/ENV
Washington, DC 20520

Re: TransCanada Keystone Pipeline, L.P.
Application for Presidential Permit: Supplemental Filing No. 3

Dear Ms. Orlando:

Enclosed for filing are an original and four electronic copies of Supplemental Filing No. 3 in support of the Application of TransCanada Keystone Pipeline, L.P. (Keystone) for a Presidential Permit Authorizing the Construction, Operation, and Maintenance of Pipeline Facilities for the Importation of Crude Oil to be Located at the United States-Canada Border at Cavalier County, North Dakota.

This Supplemental Filing includes the following information:

- An updated version of the Environmental Report originally submitted with Keystone's Presidential Permit application on April 19, 2006. The updated Environmental Report reflects the following information:
 - Updated pump station information, including pump station number and locations.
 - Updated valve locations.
 - Densitometer information, including number and locations.
 - Preliminary locations for temporary workspace areas.
 - Updated information regarding Native American lands crossed. Changes resulting from route refinements and survey activities completed since the April submittal.
 - Significant route refinements are described and reasons are provided.
 - Electrical powerline analysis for revised powerline locations.
 - Updated photo-mosaic route sheets.

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- Updated powerline route sheets.
- Site-specific drawings for horizontal directional drill (“HDD”) crossings.
- Environmental Field Survey Reports, including:
 - Cultural surveys – Status reports discussing Class III surveys, results, eligibility, testing, and status of remaining surveys. Keystone’s cultural surveys are 77 percent complete.
 - Wetland surveys – Preliminary report discussing spring/summer 2006 surveys, results, and status of remaining surveys. Keystone’s wetland surveys are 82 percent complete.
 - Final report on Topeka Shiner.
 - Final report on Winged Mapleleaf and Scaleshell Mussels.
 - Final report on native grasslands surveyed in spring/summer 2006.
 - Raptor survey report.

As previously indicated, Keystone plans to conduct an open season to solicit binding shipper support for the proposed Cushing Extension in late 2006 or early 2007. Preliminary shipper expressions of interest received by Keystone have indicated that the Cushing Extension would be required in late 2010. Accordingly, in the revised Environmental Report, Keystone has adjusted its plan for constructing the proposed Cushing Extension to reflect an in-service date of late 2010. In addition, based on operational and hydraulic considerations, Keystone has adjusted its plans for the Cushing Extension to utilize 36-inch diameter pipe, with no change to the proposed right-of-way width.

The environmental information submitted by Keystone to date, including the revised Environmental Report and accompanying materials submitted herewith, should constitute sufficient information for the Department of State to proceed with preparation of a Draft Environmental Impact Statement. As noted in this Supplemental Filing, Keystone will provide additional survey results in early 2007, including survey results for the Cushing Extension.



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Should you require additional information or have questions with respect to this Supplemental Filing, please call me at (202) 736-8785.

Respectfully submitted,

A handwritten signature in black ink, appearing to be "JP White", written over a horizontal line.

James P. White
An Attorney for
TransCanada Keystone Pipeline, L.P.

Enclosures

ACRONYMS AND ABBREVIATIONS

ACRONMYS AND ABBREVIATIONS

°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
µS/cm	microSiemens per centimeter; a measure of conductivity
ACHP	Advisory Council on Historic Preservation
AEUB	Alberta Energy and Utilities Board
AIRFA	American Indian Religious Freedom Act of 1978
amsl	above mean sea level
APC	Area of Probable Concern
APE	Area of Potential Effects
APHIS	Agriculture, Animal, and Plant Health Inspection Service
API	American Petroleum Institute
AQCR	Air Quality Control Regions
ARG	American Resources Group, Ltd.
BA	Biological Assessment
bpd	barrels per day
C&SD	Conservation and Survey Division
CAA	Clean Air Act
CAPP	Canadian Association of Petroleum Producers
CFR	Code of Federal Regulations
CLSWMA	Carlyle Lake State Wildlife Management Area
CO	carbon monoxide
CWA	Clean Water Act
dBA	decibels on the A-weighted scale
DEQ	Department of Environmental Quality
EIA	Energy Information Administration
EO	Executive Order
ER	Environmental Report
ERP	Emergency Response Plan
ESA	Endangered Species Act
FBE	fusion-bonded epoxy
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FR	Federal Register
GAP	National Gap Analysis Program
GIS	Geographic Information System
GLO	General Land Office
GPA	Game Production Area
gpm	gallons per minute
HDD	horizontal directional drill
IPL	Institute of Public Law
ISGS	Illinois State Geological Survey
KGS	Kansas Geological Survey
KSDA	Kansas Department of Agriculture
kV	kilovolt
L _{dn}	day-night sound level
LEPC	Local Emergency Planning Committee

LULC	Land Use and Land Cover
MACT	Maximum Achievable Control Technology
MAOP	maximum allowable operating pressure
MCD	Missouri Conservation Department
MDA	Missouri Department of Agriculture
mg/l	milligrams per cubic liter
MP	milepost
MUID	Map Unit Identification
MVA	million volt-amp
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native America Graves Protection and Repatriation Act
NAUS	National Atlas of the United States
NDA	Nebraska Department of Agriculture
NDDA	North Dakota Department of Agriculture
NDGFD	North Dakota Game and Fish Department
NEDEQ	Nebraska Department of Environmental Quality
NEDNR	Nebraska Department of Natural Resources
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NHP	Natural Heritage Program
NHPA	National Historic Preservation Act of 1986
NO ₂	nitrogen dioxide
NO _x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRC	National Response Center
NRCS	Natural Resources Conservation Service
NRD	Natural Resources District
NRHP	National Register of Historic Places
NRI	National Rivers Inventory
NSA	noise sensitive areas
NSPS	New Source Performance Standards
NSR	New Source Review
NVCS	National Vegetation Classification System
NWI	National Wetland Inventory
NWP	Nationwide permits
O ₃	Ozone
OAFF	Oklahoma Agriculture Food and Forestry
OPS	Office of Pipeline Safety
ORV	Outstanding Resource Values
PADD II	Petroleum Area for Defense District II
Pb	Lead
PCB	polychlorinated biphenyls
Plan	Upland Erosion Control, Revegetation, and Maintenance Plan
PM ₁₀	particulate matter with an aerodynamic diameter of 10 microns or less
ppm	parts per million
Procedures	Wetland and Waterbody Construction and Mitigation Procedures
PSC	Public Service Commission

PSD	Prevention of Significant Deterioration
psi	pounds per square inch
psig	pounds per square inch, gauge
PWS	Public Water Supplies
ROW	right-of-way
SCADA	Supervisory Control and Data Acquisition
SDCL	South Dakota Common Law
SDDENR	South Dakota Department of Environment and Natural Resources
SDGFD	South Dakota Game and Fish Department
SDSGS	South Dakota State Geological Survey
SGSK	State Geological Survey of Kansas
SHPO	State Historic Preservation Officer
SIP	State Implementation Plans
SO ₂	sulfur dioxide
SPCC Plan	Spill Prevention, Control, and Countermeasure Plan
SWCA	SWCA Environmental Consultants
TCP	traditional cultural properties
TDS	total dissolved solids
TMDL	Total Maximum Daily Load
TSS	total suspended solids
U.S.	United States
USACE	U.S. Army Corps of Engineers
USC	United States Code
USDA	U.S. Department of Agriculture
USDA-SCS	U.S. Department of Agriculture-Soil Conservation Service
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WCSB	Western Canadian Sedimentary Basin
WHMA	Wildlife Habitat Management Area
WMA	Wildlife Management Area
WSRA	Wild and Scenic Rivers Act

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AGENCY CONSULTATION AND COORDINATION

GLOSSARY

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