

ACRONYMS AND ABBREVIATIONS

A

ACHP	Advisory Council on Historic Preservation
ACS	American Community Survey
AMA	Aquatic Management Area
AOPL	Association of Oil Pipelines
APE	Area of Potential Effect
API	American Petroleum Institute
APP	Agricultural Protection Plan
Applicant	Enbridge Energy, Limited Partnership
AREMA	American Railway Engineering and Maintenance-of-Way Association
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AST	Above-ground Storage Tank
ATWS	Additional Temporary Workspace

B

BEP Best Efficiency Point

B

BGEPA	Bald and Golden Eagle Protection Act
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BMPs	Best Management Practice
BNSF	Burlington North Santa Fe
BOR	Bureau of Reclamation
Bpd	Barrels Per Day
BSA	Bank Service Area
BWSR	Minnesota Board of Water and Soil Resources

C

CAPP	Canadian Association of Petroleum Producers
CCRG	Commonwealth Cultural Resource Group
CEQ	Council on Environmental Quality
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System

C

CFR	Code of Federal Regulations
CLL	Construction Line List
CONW	County Noxious Weed
CN	Certificate of Need
CND	Condensate
CNF	Chippewa National Forest
Contractor	Construction Contractor
CP	Control Point
CPM	Computational Pipeline Monitoring
CRM	Control Room Management
CRP	Conservation Reserve Program
CWA	Clean Water Act
CWI	County Well Index

D

dBA A-Weighted Decibel

D

DNR	Department of Natural Resources
DOS	Department of State
DOT	Department of Transportation
DPS	Distinct Population Segment
DRA	Drag Reducing Agents
DWSMA	Drinking Water Supply Management Area

E

ECC	Estevan Control Center
ECD	Erosion Control Device
EELP	Enbridge Energy, Limited Partnership
EEP	Enbridge Energy Partners, L.P.
EEQ	Enbridge Energy Management, L.L.C.
EFRT	External Floating Roof Storage Tank
EIA	Energy Information Administration
EI's	Environmental Inspectors
EILC	Ecologically Important Lowland Conifer

E

EMS Emergency Medical Services

Enbridge Enbridge Energy, Limited Partnership

Enbridge Partners Enbridge Energy Partners, L.P.

EO Element Occurrences

EPA Environmental Protection Agency

EPI Enbridge Pipelines Inc.

EPP Environmental Protection Plan

ERAP Emergency Response Action Plan

ERAT Emergency Response Action Team

ESA Endangered Species Act

F

FAA Federal Aviation Administration

FERC Federal Energy Regulatory Agency

FN Federal Noxious Weed (USDA)-
Animal Plant Health Inspection
Service

FRA Federal Railroad Administration

FSA Farm Service Agency

ft. Feet

F

FTE Full Time Equivalent Employees

G

GAP Geographical Analysis Program

GHG Greenhouse Gases

GIS Geographic Information System

GWh Giga Watt Hours

H

HAZWOPER Hazardous Waste Operational and
Emergency Response

HCA High Consequence Area

HCVF High Conservation Value Forest

HDD Horizontal Directional Drilling

HMR Hazardous Materials Regulations

HHFTs High-Hazard Flammable Trains

HP Horse Power

HVY Heavy Crude

I

IAP	Incident Action Plan
IBA	Important Bird Area
ICA	Interstate Commerce Act
ICP	Integrated Contingency Plan
ICS	Incident Command System
IMP	Integrity Management Plan
IMPLAN	Impact Analysis for Planning
IMT	Incident Management Teams
IVP	Intelligent Valve Placement

K

Kbpd	Thousand Barrels Per Day
Kennecott	Kennecott Exploration Company
kW	Kilowatt
kWh	Kilowatt Hours

L

LAUS	Local Area Unemployment Statistics
LBHs	Large Block Habitats
LEDPA	Least Environmentally Damaging and Practicable Alternative
LEP	Limited English Proficiency
LGT	Light Crude Petroleum
LGU	Local Governmental Unit
LPG	Liquefied Petroleum Gas
LQG	Large Quantity Generator
LTA	Land Type Association
LULC	Land Use/Land Cover

M

mbpd	Million Barrels Per Day
Mbpd-miles	Million Barrels Per Day-miles
MBS	Minnesota Biological Survey
MBTA	Migratory Bird Treaty Act
MDA	Minnesota Department of Agriculture

M

MDH	Minnesota Department of Health
MED	Medium Crude Petroleum
Merjent	Merjent, Inc.
MGS	Minnesota Geological Survey
MHB	Mississippi Headwaters Board
MHS	Minnesota Historical Society
MLRA	Major Land Resource Areas
MNDNR	Minnesota Department of Natural Resources
MNDOT	Minnesota Department of Transportation
MNOPS	Minnesota Office of Pipeline Safety
MN-PUC	Minnesota Public Utilities Commission
MNR	Midwest Natural Resources
MOC	Management of Change Procedure
MOP	Maximum Operating Pressure
MP	Mile Post
MPCA	Minnesota Pollution Control Agency

M

MPUC	Minnesota Public Utilities Commission
MS	Minnesota Statute
MSDS	Material Safety Data Sheet
MW	Megawatts
N	
NDA	North Dakota Department of Agriculture
NDAC	North Dakota Administrative Code
NDCC	North Dakota Century Code
NDDES	North Dakota Department of Emergency Services
NDPA	North Dakota Pipeline Authority
NDPC	North Dakota Pipeline Company LLC
NDPRD	North Dakota Parks & Recreation Department
ND-PSC	North Dakota Public Service Commission
NEB	National Energy Board

N

NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NGL	Natural Gas Liquids
NHIS	Minnesota Natural Heritage Information System
NLEB	Northern Long-eared Bat
NPC	Native Plant Community
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NPREP	National Preparedness for Response Exercise Program
NPS	Nominal Pipe Size
NRC	National Research Council
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NRI	National Rivers Inventory
NRT	National Response Team
NSPS	New Source Performance Standards

N

NTS	Not to Scale
NTSB	National Transportation Safety Board
NW	Noxious Weeds
NWI	National Wetland Inventory
O	
OD	Outside Diameter
OFMC	Old Forest Management Complexes
OG	Old Growth
OGF	Old Growth Forest
OHWL	Ordinary High Water Level
OHWM	Ordinary High Water Mark
OPA90	Oil Pollution Act of 1990
ORVW	Outstanding Resource Value Waters

O

OSHA Occupational Safety and Health Administration
OSRO Oil Spill Removal Organization

P

PLP Permanent List of Priorities
PLS Pure Live Seed
ppmw Parts per Million by Weight
Project Line 3 Replacement Project
PS State Prohibited Weed Seed (MDA)
PSCW Wisconsin Public Service Commission
Psi Pounds Per Square Inch
Psig Pounds Per Square Inch Gauge
PSS Palustrine Shrub-Scrub Wetlands
PUB Palustrine Unconsolidated Bottom Wetlands
PUC Public Utilities Commission
PWI Public Water Inventory

P

PAA Plains All American Pipeline LP
PADD II Petroleum Administration for Defense District Section II
PAHs Polycyclic Aromatic Hydrocarbons
PBR Permit by Rule
PCVs Pressure Control Valves
PEM Palustrine Emergent Wetlands
PFO Palustrine Forested Wetlands
PHMSA Pipeline and Hazardous Materials Safety Administration
PI Prohibited Exotic Species (MNDNR)
PIG Pipeline Inspection Gauge
PLM Pipeline Maintenance

Q

QG	Large Quantity Generator
QMS	Quality Management System

R

RCRA	Resource Conservation and Recovery Act
RFA	Responsible Federal Agency
RIMS	Regional Input-Output Modeling System
RN	Restricted Noxious Weed (MDA)
ROC	Region of Comparison
ROW	Right-of-Way
RSA	Representative Sample Area
RSPA	Research and Special Programs Administration

S

Sandpiper	Sandpiper Pipeline Project
SAW	Submerged Arc Welded

S

SCADA	Supervisory Control and Data Acquisition
SDS	State Disposal System
Seaway	Seaway Crude Pipeline Company, LLC
SGCN	Species of Greatest Conservation Need
SHPO	State Historic Preservation Office
Site	St. Regis Paper Company Federal Superfund Site
SMZ	Special Management Zones
SN	State Noxious Weed (MDA)
SNA	Scientific and Natural Area
SOBS	Sites of Biodiversity Significance
SPCCP	Spill Prevention, Control, and Countermeasures Plan
SR	Specially Regulated (MDA)
SSURGO	Soil Survey Geographic Database
STATSGO2	State Soil Geographic Database 2
Strata Morph	Strata Morph Exploration, Inc.
SWPPP	Storm Water Pollution Prevention Plan

T

THPO	Tribal Historic Preservation Office
TMDL	Total Maximum Daily Load
TNC	The Nature Conservancy
Topo	Topographical
TWS	Temporary Workspace

U

USFS	U.S. Forest Service
USFWS	U.S. Fish & Wildlife Service
USGS	U.S. Geological Survey
USL	Light Crude Petroleum
USNPS	United States National Park Service

U

UDP	Unanticipated Discovery Plan
UFC	Unified Facilities Criteria
U.S. or US	United States
USACE	U.S. Army Corps of Engineers
USC	United States Code
USD	United State Dollar
USDA	United States Department of Agriculture
USDOT or U.S. DOT	United States Department of Transportation

V

VCU	Vapor Combustor Unit
VFD	Variable Frequency Drives
VOC	Volatile Organic Compounds
VRU	Vapor Recovery Unit

W

WAN	Wide Area Network
WCA	Wetland Conservation Act
WCA LGU	Wetland Conservation Act Local Government Unit
WCSB	Western Canadian Sedimentary Basin
WDATCP	Wisconsin Department of Agricultural, Trade, and Consumer Protection
WHPA	Wellhead Protection Areas
WIDNR	Wisconsin Department of Natural Resources
WMA	Wildlife Management Area
WPA	Wellhead Protection Area
WPFO	Western Prairie Fringed Orchid
WQC	Water Quality Certification



DEFINITIONS

Annual Capacity	The average sustainable pipeline throughput over a year. Annual capacity is calculated assuming historic average annual operating conditions. These operating conditions include scheduled and unscheduled maintenance, typical operating issues that arise, and crude supply availability. Annual capacity of a pipeline is typically 90% of design capacity, and represents the capacity requested in this Application.
Applicant	Enbridge Energy, Limited Partnership.
Apportionment	<p>Apportionment is calculated in accordance with Enbridge's Rules and Regulations on file at the FERC. Shippers request transportation capacity on the Enbridge Mainline System by nominating a shipment to Enbridge. Nominations are submitted to Enbridge on a prescribed date each month, generally the 20th of the preceding month. Upon receipt of all nominations, Enbridge verifies the nomination with upstream suppliers and downstream delivery points designated by the shipper. Once verified and accepted, they are allocated between the various lines, in accordance with the line's allocation methodology. If barrels nominated exceed the capacity of the pipeline, apportionment is declared, and the available pipeline capacity is allocated to the shippers' verified nominations on a pro rata basis, calculated using the following equation:</p> $\text{Percent Apportionment} = \frac{(\text{Nominations} - \text{Available Capacity})}{\text{Nominations}}$
Average Annual Capacity	Average sustainable rate, which is the average barrels per day over a year (90% of initial design capacity).



Condensate	A commodity having a density from 600 kg/ m ³ up to but not including 800 kg/ m ³ and a viscosity of 0.4 mm ² /s up to but not including 2 mm ² /s will be classified as Condensates.
Design Capacity	The capacity of the pipeline and pumping facilities, at its current or proposed design state for given types of liquids and their batch sequence. Design capacity is calculated assuming ideal operating conditions.
Enbridge	Enbridge is the term used to collectively describe the various Enbridge companies, affiliates and legal entities, some of which are defined below.
Enbridge Energy, Limited Partnership	Enbridge Energy, Limited Partnership owns and operates the liquid pipeline system known as the Enbridge “Lakehead System”. Together with Enbridge Pipelines Inc. in Canada, these operationally integrated pipeline systems form the longest liquid petroleum pipeline in the world.
Enbridge Mainline System	A term used to described the U.S. and Canadian portion of a major liquid pipeline system owned by Enbridge Energy, Limited Partnership and Enbridge Pipelines Inc., respectively.
Facilities	New and existing pipeline, rights-of-way, and any equipment, facility, or building used in the transportation of hazardous liquids and/or natural gas during the course of transportation.
Heavy Crude	As defined in the Enbridge Energy, Limited Partnership local tariff applying to crude petroleum and natural gas liquids, a commodity having a density from 904 kg/m ³ to 940 kg/m ³ inclusive and a viscosity from 100 to 350 mm ² /s.



Lakehead Pipe Line System	The Lakehead Pipe Line System is owned and operated by Enbridge Energy, Limited Partnership, and it spans approximately 1,900 miles from the international border near Neche, North Dakota, to the international border near Marysville, Michigan, plus a short section from the international border at the Niagara River into the Buffalo, New York area.
Light Crude	As defined in the Enbridge Energy, Limited Partnership local tariff applying to crude petroleum and natural gas liquids, a commodity having a density from 600 kg/m ³ up to but not including 876 kg/m ³ and a viscosity from 0.4 mm ² /s up to but not including 20 mm ² /s.
Mainline Corridor	A pipeline corridor in Northern Minnesota where up to seven pipelines are located and which crosses the Chippewa National Forest, the Leech Lake Reservation, and the Fond du Lac Reservation.
Medium Crude	As defined in the Enbridge Energy, Limited Partnership local tariff applying to crude petroleum and natural gas liquids, a commodity having a density from 876 kg/m ³ up to but not including 904 kg/m ³ and a viscosity from 20 mm ² /s up to but not including 100 mm ² /s.
Nomination	The process by which shippers request space on a pipeline to move crude oil from a receipt point to a delivery point.
Project	The project refers to the Line 3 Replacement Project, which is an integrity and maintenance-driven project and a major component of Enbridge's Line 3 Replacement Program in the United States.



Enbridge Energy, Limited Partnership
Pipeline Routing Permit Application
MPUC Docket No. PL-9/PPL-15-137

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Definitions

Right-of-Way	The land included in permanent and temporary Easements that Enbridge possesses for the purpose of construction and operation of Facilities.
Sandpiper Pipeline Project	A crude oil pipeline project owned by North Dakota Pipe Line Company LLC and filed with the MPUC in November 2013 under Docket No. PL-6668/PPL-13-474 and Docket No. PL-6668/CN-13-473.
Shipper	A party who contracts with the Carrier for the transportation of crude petroleum subject to and in accordance with these Rules and Regulations subject to the rate on the applicable tariff.
Ultimate Capacity	Maximum economic expansion capacity of individual line. Additional pumping horsepower required over current design to meet this capacity.