Pipeline 101
Understanding the Basics
Natural Gas Pipelines

Association of State Wetland Managers

7 November 2018
Understanding Pipeline Construction
Clearing
Trenching
Pipe String
Welding
Lowering
Grading
Reclamation
Special Construction

Side Slope
Steep Slope
Stream Crossings

Wet Trench
Dry Trench
HDD
Direct Pipe
Reclamation
Wet Trench
Dry Trench
Cofferdam

Photo: Portadam
HDD
Stream Crossing Reclamation
Wetland Crossings

Matting
Water Removal
Buoyancy
Reclamation
Conversion
Matting
Water Removal
Buoyancy
Other Considerations

HDD
French Mattress
One Pass
Composite Mats
Not “Just” a Pipeline

Staging Areas
Access Roads
Workspace
Temporary Workspace
Additional Temporary Workspace
Staging
Temporary Bridge
“Improved” Ford
Armored Ford - Concrete
Armored Ford - Block
Temporary Workspace
Working with FERC

Interstate Transmission of Natural Gas
FERC
Section 7 Natural Gas Act

Section 7 Endangered Species Act
Pre-Application

Open House
Scoping
Resource Reports
Docket e-library
Participating Agency
Cooperating Agency
Intervenor
Post-Application

Ex Parte
Draft Documents
Bi-Weekly Reports
Certificate of Public Convenience and Necessity

Not a “License”
Order with Conditions
Eminent Domain
What’s Next?
Training
Experience
Volume
West Virginia 2015-2018

Brooke County Access
Eastern Panhandle Expansion
Mountain Valley Pipeline
Equitrans Expansion
WB Xpress
Mountaineer Xpress
Ohio Valley Connector
Utica Access
Rover
WB2VA Integrity
Leach Xpress
Atlantic Coast Pipeline
Supply Header Project
18 CFR

Part 157, Subpart F –

Interstate Pipeline Blanket Certificates and Authorization Under Section 7 of the Natural Gas Act for Certain Transactions and Abandonment
§2.55 Auxiliary installations and replacement facilities
401 Desk top review
Variance Requests

Legal Challenges
TERMINOLOGY

**DRIP**: A vessel attached beneath a gas pipeline in which water and liquids accumulate due to gravity.

**LOOPING**: Two or more pipelines running parallel to each other to increase capacity.

**MUD**: Drilling fluid circulated through the drill pipe and back to the surface during rotary drilling.

**PIG**: A scraping instrument for cleaning a pipeline.

**SMART PIG**: Inspection devices that record information about the internal conditions of a pipeline.
Flow Reversal

Backhaul Transportation
Acronyms and Abbreviations

ATWS additional temporary workspace

AMM Avoidance and Minimization Measures

LOD Limit of Disturbance

MLV mainline valve

TOYR time of year restriction

TWS temporary workspace
USACE

Single and complete project
Permanent Impact
Temporary Impact
Informal Consultation
Formal Consultation
Jeopardy
Formal Conference
BA biological assessment
BO Biological Opinion
LAA likely to be adversely affected
EO 13807

“...Federal environmental review and permitting...coordinated, predictable and transparent”
Identify Sources of Information
Plan
Network
Communicate
(Early and Often)
Information Sources & Training

FERC
ASWM

Sign up to receive information on upcoming ASWM Webinars
Protect the Resource
Part 157, Subpart F – Blanket Authorization

Notification Requirements

Limitations – Cost limits, cultural resources, significant impact sensitive resources
Carex haydenii
CVNWR
Timber Rattlesnake

Photo credit: Paula Waggy
Small Whorled Pagonia
CERULEAN WARBLER
Management Guidelines for Enhancing Breeding Habitat in Appalachian Hardwood Forests

February, 2013
Mud Bug
Cambarus pauleyi

Photo credit: Zachary Loughman, Ph.D.
Questions