



Texas Eastern Appalachian Lease Project

*Ohio Environmental Protection Agency
Section 401 Water Quality Certificate Application*

December 2015

TEXAS EASTERN APPALACHIAN LEASE PROJECT

SECTION 401 WATER QUALITY CERTIFICATION

TABLE OF CONTENTS

PROJECT DESCRIPTION

ITEM 1 – 401 WATER QUALITY CERTIFICATION APPLICATION FORM

ITEM 2 – WATER RESOURCE IMPACT TABLES

- 2.1 Watersheds Crossed Table
- 2.2 Waterbodies Crossed by the TEAL Project
- 2.3 Wetlands Crossed by the TEAL Project
- 2.4 Summary of Wetlands Affected by Construction and Operation of the TEAL Project
- 2.5 Summary of ORAM Categories

ITEM 3 – WATERS DELINEATION REPORT

- Appendix A: National Wetland Inventory Maps
Natural Resource Conservation Service Soil Survey Maps
- Appendix B: Soils Crossed by Milepost Along the Proposed Pipeline Route
- Appendix C: Wetland and Waterbody Summary Forms
USACE Wetland Delineation Data Forms
Ohio Rapid Assessment Method (“ORAM”) Forms
Qualitative Habitat Evaluation Index (“QHEI”) Forms
High Resolution Resource Photographs
Aerial Resource Map
USGS Quad Project and Resource Map

ITEM 4 – AGENCY CORRESPONDENCE

- 4.a U.S. Army Corps of Engineers Jurisdictional Determination
- 4.b U.S. Army Corps of Engineers Public Notice or Provisional NWP
- 4.c Ohio Department of Natural Resources Correspondence
- 4.d U.S. Fish and Wildlife Service Correspondence

ITEM 5 – ANTIDEGRADATION ANALYSIS

ITEM 6 – PROJECT MAPPING

- 6.1 USGS Quad Project and Resource Mapping
- 6.2 Aerial Photography Mapping
- 6.3 Vicinity Map -Natural Resources
- 6.4 Alternatives Analysis Mapping

ITEM 7 – PROJECT MITIGATION PLAN

PROJECT DESCRIPTION

This section identifies and describes the Project’s Purpose and Need, required permits and approval necessary for the Project, proposed facilities, and pipeline construction procedures.

Purpose and Need

The proposed Texas Eastern Appalachian Lease Project (“Project” or “TEAL Project”) will create additional firm leased pipeline capacity necessary to deliver 950,155 dekatherms per day (“Dth/d”) of natural gas production from receipt points in the Appalachian Basin in Texas Eastern Transmission, LP (“Texas Eastern”) Market Zone 2 between Berne, Ohio, and Uniontown, Pennsylvania, to a new connection with the NEXUS Gas Transmission Project (“NEXUS Project”) in Hanover Township, Columbiana County, Ohio. The capacity created by the TEAL Project will be leased to NEXUS Gas Transmission, LLC (“NEXUS”) for ultimate delivery to markets in northern Ohio, southeastern Michigan, and the Dawn Hub in Ontario, Canada. In addition to providing access to production in the growing Appalachian Basin for major natural gas markets along the NEXUS Project, the TEAL Project will promote increased commodity price competition and reduce price volatility by introducing new supply sources to these growing markets. NEXUS has held multiple open seasons for the NEXUS Project, and based on the results from those open seasons, existing and potential shippers expressed interest in a transportation path with receipt points in the Texas Eastern Market Zone 2. The target in-service date for the portion of the TEAL Project that provides 637,559 Dth/d, of new incremental pipeline capacity is November 1, 2017, and the target in-service date for the remainder of the TEAL Project, totaling 950,155 Dth/d is November 1, 2018. These in-service dates align with the timing requirements for the NEXUS Project.

Permits and Approvals

Texas Eastern is seeking approvals or certifications for the construction, operation, and maintenance of the Project from federal and state agencies. The table below list all the permit approvals or certificates for other federal, interstate, state or local agencies required for the TEAL Project activities. Refer to Item 4 for the Project agency correspondences regarding endangered species.

Anticipated Environmental Permit, Review and Consultation List			
Agency	Permit/Approval	Application/Documentation Proposed or Actual Submittal Date	Approval Status
FEDERAL			
Federal Energy Regulatory Commission	Section 71 Certificate of Public Convenience and Necessity	November 2015	Pending
U.S. Army Corps of Engineers – Pittsburgh District	PJD and Nationwide Permit 12	December 2015	Pending
U.S. Fish and Wildlife Service – Ohio Field Office	Section 7 ESA Species Consultation and Clearance	Ongoing	Pending
State Historic Preservation Office	Section 106 Cultural Resources Consultation	December 2015, Consultation Ongoing	Pending
STATE			
Ohio Environmental Protection Agency	Air Permit-to-Install and Operate (Salineville Compressor Station and additional compression at Colerain Compressor Station) Section 401 Water Quality Certification NPDES Stormwater General Permit NPDES Hydrostatic Test Discharge General Permit Request for Open Burning Approval	July 2015 December 2015 August 2016 August 2016 As needed during construction	Pending
Ohio Department of Natural Resources	T&E Species Consultation	Ongoing	Pending

Proposed Facilities

The TEAL Project is located in eastern Ohio; refer to Figure 1.1-1 in Item 6 for an overview of the Project and U.S. Geological Survey 7.5-minute topographic map excerpts which depict TEAL Project facilities locations. The TEAL Project will consist of the following proposed facilities:

Pipeline Facilities

The pipeline facilities for the Project include construction of a natural gas transmission mainline pipeline loop and a connecting pipeline to the NEXUS Project in Ohio:

- Proposed Pipeline Loop - construction of approximately 4.4 miles of new 36-inch diameter pipeline loop that will tie in to Texas Eastern's existing 30-inch diameter Line 15 at the west end, and extend approximately 4.4 miles in an easterly direction, to Texas Eastern's existing 36-inch diameter Line 30, northwest of the Village of Clarington in Monroe County. Piping to accommodate a temporary (portable) launcher/receiver will be installed at the west end of the loop during construction.
- Connecting Pipeline to NEXUS - installation of a new 30-inch diameter tee tap and 30-inch diameter connecting pipeline approximately 1,790 feet in length to connect Texas Eastern's Line 73 to the NEXUS M&R Station adjacent to the Kensington Processing Plant in Columbiana County, Ohio.

Aboveground Facilities

The Project also includes aboveground facilities consisting of the construction of a new greenfield compressor station, additional compression facilities at Texas Eastern's Colerain Compressor Station, and certain flow reversal piping modifications:

- Salineville Compressor Station – construction of a new greenfield compressor station, including two Taurus gas turbine compressor units (18,800 horsepower total) and a launcher/receiver, currently proposed along Texas Eastern's 30-inch diameter Line 73 in Franklin Township, Columbiana County, Ohio;
- Communications – The Project will include construction and operation of one 300-foot tall self-supporting tower structure to support communication. The tower will be located at the Salineville Compressor Station. This tower will be lit in accordance with FAA regulations AC 70/7469-1K Section 20 using a single white strobe lighting system. The tower will support licensed VHF (Very High Frequency) Mobile Radio transmission equipment for voice communications and MAS (Multiple Address Radio System) point to multi-point radio for SCADA (supervisory control and data acquisition) communications with metering & regulating stations and remote controlled mainline valve sites. Texas Eastern is evaluating the recently issued U.S. Department of the Interior, Fish and Wildlife Service's ("USFWS"), *Interim Guidelines for Recommendations on Communications Tower Siting, Construction, Operation, and Decommissioning* (USFWS, 2014). These Guidelines were used in the evaluation and development of the engineering designs for the TEAL Project's communications tower.
- Additional Compression – installation of a third Taurus gas turbine compressor unit (9,400 horsepower) and incremental gas cooling at the Texas Eastern Colerain Compressor Station in Colerain Township, Belmont County, Ohio.
- Flow Reversal Work - piping modifications to accommodate bi-directional flow at the Colerain Compressor Station; piping modifications and addition of a filter separator to accommodate bi-directional flow at a regulation facility at the tie-in at milepost ("MP") 74.1 along Line 73 to Texas Eastern's Lines 10 and 15; and piping modifications and addition of a filter separator to accommodate bi-directional flow at a launcher/receiver facility at the tie-in at MP 75.8 along Line 73 to Texas Eastern's Lines 25 and 30.
- Additional Aboveground Facilities – removal of an existing launcher/receiver and associated appurtenances from the east end of the proposed loop (endpoint of existing Line 30). Piping to

accommodate a temporary (portable) launcher/receiver will be installed at the west end of the loop during construction. New launcher/receiver facilities will be constructed at the north and south ends of the proposed connecting pipeline.

Access Roads

To the extent feasible, existing public and private road crossings along the proposed pipeline will be used as the primary means of accessing the pipeline construction areas and aboveground facilities. Texas Eastern has identified temporary access road along the Project pipeline facilities and permanent access roads are located at aboveground facilities. The maximum access road width for the Project will be 25 feet. No wetland or waterbodies will be impacted by the construction or use of permanent access roads and therefore are not discussed further in this Application.