

**ATLANTIC COAST PIPELINE, LLC  
ATLANTIC COAST PIPELINE**

**and**

**DOMINION ENERGY TRANSMISSION, INC.  
SUPPLY HEADER PROJECT**

**Supplemental Filing  
September 8, 2017**

**APPENDIX A**

**Organic Farm Protection Plans**



**ATLANTIC COAST PIPELINE, LLC**  
**ATLANTIC COAST PIPELINE**  
**Docket Nos. CP15-554-000 &**  
**CP15-554-001**

**and**



**DOMINION ENERGY**  
**TRANSMISSION, INC.**  
**SUPPLY HEADER PROJECT**  
**Docket No. CP15-555-000**

## **Organic Farm Protection Plan**

**Organic Farm No. 1**

**Augusta County, Virginia**

**Prepared by**



**August 27, 2017**

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## **1.0 INTRODUCTION**

Atlantic Coast Pipeline, LLC (Atlantic) – a company formed by four major energy companies – Dominion Energy; Duke Energy Corporation; Piedmont Natural Gas Co., Inc.; and Southern Company Gas – proposes to construct and operate approximately 600 miles of natural gas transmission pipelines and associated aboveground facilities in West Virginia, Virginia, and North Carolina. This Project, referred to as the Atlantic Coast Pipeline (ACP), will deliver up to 1.5 million dekatherms per day of natural gas from supply areas in the Appalachian region to demand areas in Virginia and North Carolina. Atlantic has contracted with Dominion Energy Transmission, Inc. (DETI), a subsidiary of Dominion Energy, to construct and operate the ACP on behalf of Atlantic.

## **2.0 PURPOSE**

Atlantic's Application for a Certificate of Public Convenience and Necessity, filed with the Federal Energy Regulatory Commission (FERC) on September 18, 2015, identified measures broadly aimed at the protection and restoration of agricultural lands in general, and organic farms in particular. Through discussions with individual landowners, Atlantic identified properties crossed by the ACP pipeline route that are certified organic farms, or where such certification is pending. FERC requires that an organic farm protection plan be developed for each such property affected by the ACP Project.<sup>1</sup> This Plan, developed for Organic Farm No. 1 is intended to ensure that ACP activities will not affect the organic certification or re-certification of the farm, and to ensure the property's return to full agricultural productivity.

## **3.0 DESCRIPTION OF ORGANIC FARM NO. 1**

This property is located between approximately MPs 141.8 and 142.4 of the AP-1 mainline in Augusta County, Virginia (Parcel 07001-A150). The pipeline will cross approximately 0.6 miles of the property. Construction of the ACP will affect approximately 10.1 acres of the property, of which approximately 5 acres will be encumbered by the permanent pipeline easement (see Figure 1).

The farm is a certified organic dairy operation. Maintenance of certification requires adherence to the Ohio Ecological Food and Farm Association's National Organic Program Standards. Approximately 110 acres are farmed; the northern portion of the property is wooded. Cattle are grazed across portions of the construction right-of-way (ROW). Hay, corn, and oats are also grown on or in the vicinity of the ROW. Portions of the property are irrigated, but not near the ROW. There are no drainage tiles on the property.

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<sup>1</sup> This requirement also applies to the Supply Header Project (SHP) in Pennsylvania and West Virginia, but the SHP crosses no known certified organic farms or farms with certification pending.



#### 4.0 TRAINING

Prior to the start of construction, Atlantic and DETI will conduct environmental training for Company and Contractor<sup>2</sup> personnel. The training program will focus on FERC's *Upland Erosion Control, Revegetation, and Maintenance Plan* and *Wetland and Waterbody Construction and Mitigation Procedures*; other construction, restoration, and mitigation plans, including this *Organic Farm Protection Plan*; and applicable permit conditions. In addition, Atlantic and DETI will provide large-group training sessions before each work crew commences construction with periodic follow-up training for groups of newly assigned personnel.

#### 5.0 MITIGATION MEASURES

- In accordance with FERC's *Upland Erosion Control, Revegetation and Maintenance Plan*, Atlantic will remove and segregate topsoil over the entire width of the ROW (with the exception of areas beneath topsoil stockpiles). If the area crossed by the ROW has at least 12 inches of topsoil, Atlantic will remove and segregate 12 inches of topsoil. If the topsoil depth is less than 12 inches, Atlantic will remove and segregate the entire topsoil layer, to the underlying subsoil.
- Where the ROW crosses pasture or cultivated land, the pipeline will be buried with a minimum of four feet of cover.
- Atlantic will relieve compaction of the exposed subsoil prior to topsoil replacement. Subsoil compaction will be relieved on the working side of the ROW utilizing a paraplow or other appropriate implement. After decompaction and prior to topsoil replacement, a disc or harrow will be utilized, as necessary, to smooth the subsoil surface.
- Following final grading and topsoil replacement, Atlantic will conduct deep tillage to relieve soil compaction on the working side of the ROW or will test soils for compaction at regular intervals.
- If trench dewatering is necessary, the water will be discharged into a constructed energy-dissipating structure to prevent damage to adjacent agricultural land, drainage systems, and crops.
- Atlantic will control excessive dust emissions generated during construction, as necessary, by controlling vehicle speeds, or wetting the construction area. If wetting is necessary to control dust, only water will be utilized.
- Atlantic will compensate the landowners for direct crop losses (including livestock) as a result of pipeline construction. Following completion of initial

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<sup>2</sup>

Contractor refers to the company or companies retained by Atlantic/DETI or another contractor to construct the proposed facilities.

restoration, Atlantic will work with the landowner to identify and remediate any further pipeline construction impacts on soil and crop productivity.

- Atlantic will review applicable elements of this *Organic Farm Protection Plan* and site-specific construction practices with the landowner and, if requested by the landowner, a mutually acceptable third party organic certifier to ensure that construction activities will not affect the organic certification of the farm.
- Atlantic will avoid the application of prohibited substances onto the property.
- Topsoil and subsoil will be stored separately and replaced in the proper sequence after the pipeline is installed. Topsoil and subsoil will neither be removed from nor imported to the property.
- Erosion control procedures will be designed so that sediment from adjacent non-organic agricultural land will not flow off the ROW and be deposited on the property.
- During construction, Atlantic will leave an earthen plug in the trench at the boundary of the farm to prevent trench water flowing from adjacent land into the trench on the property.
- Following construction, if invasive plant species are found to have appeared on the ROW as a result of Atlantic's activities, Atlantic will consult with the landowner regarding necessary remediation, and implement controls for invasive plant species consistent with the landowner's organic system plan. No chemicals or defoliants will be used on the property to control invasive plant species or be allowed to drift on to the property from adjoining parcels.

In addition to the mitigation measures listed above, the following site-specific measures, developed in coordination with the landowner, will be implemented at Certified Organic Farm 1:

- Atlantic may grind and chip any timber cut during clearing of the ROW, and may disperse such chips on the ROW or adjacent areas outside the ROW at a rate not to exceed 1 ton per acre. Chips may be temporarily stored in piles but will not be permanently piled; they will be removed, dispersed, or spread.
- Atlantic will clean all vehicles, equipment and materials as necessary to ensure they arrive on the property free of soil and/or other contaminants.
- Atlantic will take reasonable measures to protect livestock so that no livestock are killed or injured as a result of Atlantic's actions, and will reimburse the landowner for the death or injury of any livestock as a result of Atlantic's actions.
- If in pastures or cultivated fields heavy stone is encountered in the subsoil, topsoil segregation will be followed by segregation of a second layer of soil immediately under the topsoil. Stones in pastures or cultivated fields greater than four inches in diameter will be buried below the plow depth or placed at a location on the property determined by the landowner.

- Atlantic will inform the landowner regarding the type and location of any elements of the cathodic protection system used on the property, or of any changes thereto.
- Atlantic will provide two hard crossings of the ROW for landowner access purposes.





**ATLANTIC COAST PIPELINE, LLC  
ATLANTIC COAST PIPELINE  
Docket Nos. CP15-554-000 &  
CP15-554-001**

**and**



**DOMINION ENERGY  
TRANSMISSION, INC.  
SUPPLY HEADER PROJECT  
Docket No. CP15-555-000**

**Organic Farm Protection Plan**

**Organic Farm No. 2**

**Sampson County, North Carolina**

**Prepared by**



**August 27, 2017**

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## **1.0 INTRODUCTION**

Atlantic Coast Pipeline, LLC (Atlantic) – a company formed by four major energy companies – Dominion Energy; Duke Energy Corporation; Piedmont Natural Gas Co., Inc.; and Southern Company Gas – proposes to construct and operate approximately 600 miles of natural gas transmission pipelines and associated aboveground facilities in West Virginia, Virginia, and North Carolina. This Project, referred to as the Atlantic Coast Pipeline (ACP), will deliver up to 1.5 million dekatherms per day of natural gas from supply areas in the Appalachian region to demand areas in Virginia and North Carolina. Atlantic has contracted with Dominion Energy Transmission, Inc. (DETI), a subsidiary of Dominion Energy, to construct and operate the ACP on behalf of Atlantic.

## **2.0 PURPOSE**

Atlantic's Application for a Certificate of Public Convenience and Necessity, filed with the Federal Energy Regulatory Commission (FERC) on September 18, 2015, identified measures broadly aimed at the protection and restoration of agricultural lands in general, and organic farms in particular. Through discussions with individual landowners, Atlantic identified properties crossed by the ACP pipeline route that are certified organic farms, or where such certification is pending. FERC requires that an organic farm protection plan be developed for each such property affected by the ACP Project.<sup>1</sup> This Plan, developed for Organic Farm No. 2, is intended to ensure that ACP activities will not affect the organic certification or re-certification of the farm, and to ensure the property's return to full agricultural productivity.

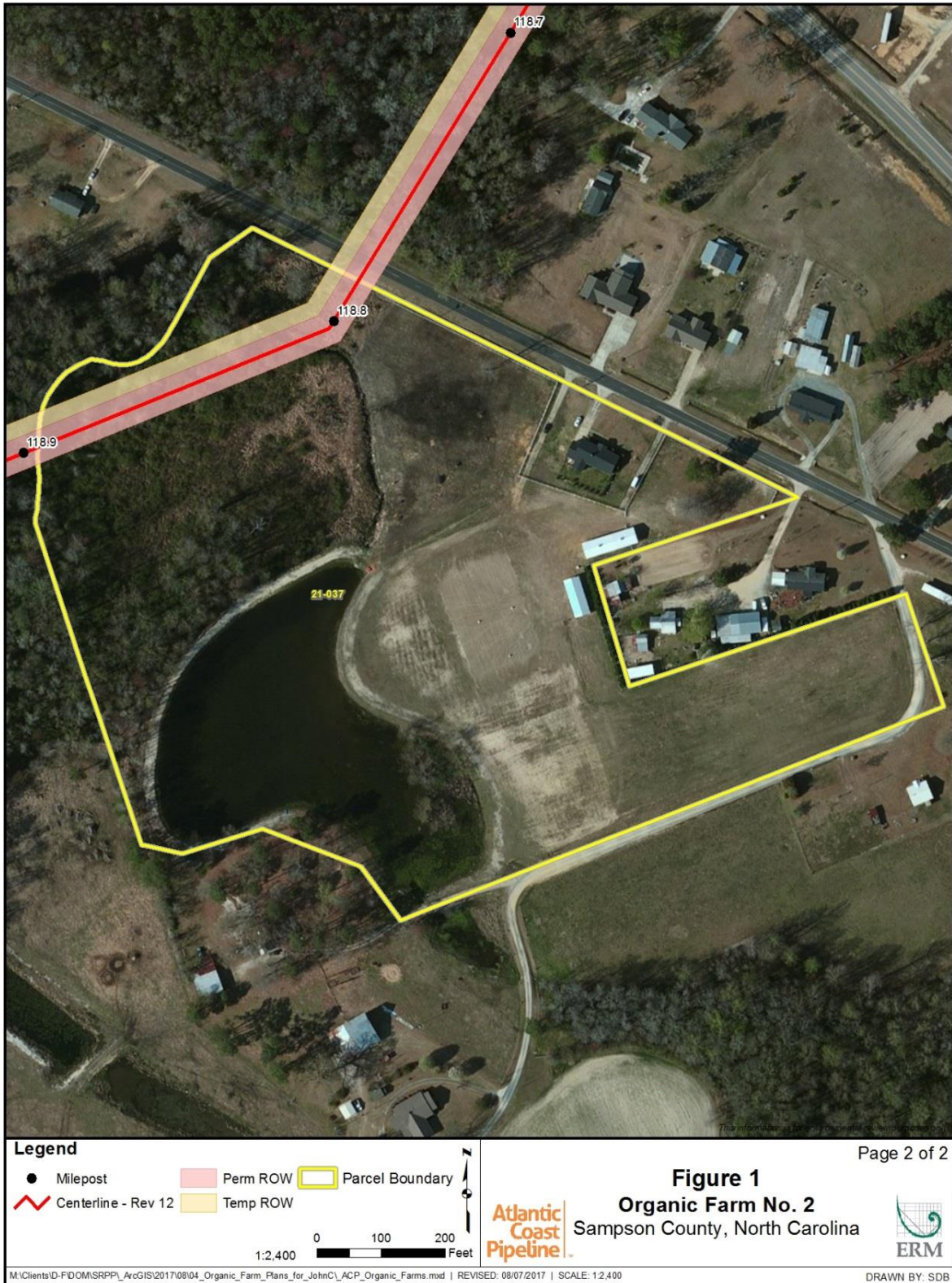
## **3.0 DESCRIPTION OF ORGANIC FARM NO. 2**

This farm is located between approximately MPs 118.8 and 118.9 of the AP-2 mainline in Sampson County, North Carolina (Parcel 21-037). The pipeline will cross approximately 0.1 miles of the property. Construction of the ACP will affect approximately 1.5 acres of the property, of which approximately 0.7 acres will be encumbered by the permanent pipeline easement (see Figure 1).

The farm is an organic hog farm certified by Oregon Tilth under the U.S. National Organic Program 7 CFR Part 205. The route crosses pastures, a breeding pen, and a wooded area on the farm. The farm employs mobile hog pens, which can be relocated as necessary to accommodate pipeline construction. Drainage tiles are present within the area of the construction right-of-way (ROW). The property is not irrigated.

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<sup>1</sup> This requirement also applies to the Supply Header Project (SHP) in Pennsylvania and West Virginia, but the SHP crosses no known certified organic farms or farms with certification pending.



#### 4.0 TRAINING

Prior to the start of construction, Atlantic and DETI will conduct environmental training for Company and Contractor<sup>2</sup> personnel. The training program will focus on FERC's *Upland Erosion Control, Revegetation, and Maintenance Plan* and *Wetland and Waterbody Construction and Mitigation Procedures*; other construction, restoration, and mitigation plans, including this *Organic Farm Protection Plan*; and applicable permit conditions. In addition, Atlantic and DETI will provide large-group training sessions before each work crew commences construction with periodic follow-up training for groups of newly assigned personnel.

#### 5.0 MITIGATION MEASURES

Atlantic will implement the following mitigation measures during construction across Organic Farm No. 2. It should be noted that the following does not include all the conditions applicable to construction/operation of the ACP pipeline on the property, but covers those most germane to the organic farming operations and/or unique to the property.

- In accordance with FERC's *Upland Erosion Control, Revegetation and Maintenance Plan*, Atlantic will remove and segregate topsoil over the entire width of the ROW (with the exception of areas beneath topsoil stockpiles). If the area crossed by the ROW has at least 12 inches of topsoil, Atlantic will remove and segregate 12 inches of topsoil. If the topsoil depth is less than 12 inches, Atlantic will remove and segregate the entire topsoil layer, to the underlying subsoil.
- Where the ROW crosses pasture or cultivated land, the pipeline will be buried with a minimum of four feet of cover.
- Atlantic will work with the landowner to identify and mark drain tiles in advance of construction, and will mark the locations of tile(s) broken during pipeline trenching operations. Atlantic will implement temporary tile line repairs as needed to maintain the functionality of tile drainage systems during construction. The pipeline will be installed below the grade of existing drain tiles, unless the drain tiles are deep enough to allow the pipeline to be installed above the drain tile with at least four feet of cover over the pipe and a 12-inch clearance between the tile and the pipeline.
- If underground drain tile is damaged by construction, it will be repaired by a local (where available) qualified tile contractor to its former condition in a manner that assures the proper operating condition of the tile at the point of repair. Prior to completion of repairs, tile lines will be examined by suitable means on both sides of the trench for the entire length within the work area to check for tile that could have been damaged by construction equipment. Tile line repairs will be made with materials of the same or better quality as those damaged.

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<sup>2</sup>

Contractor refers to the company or companies retained by Atlantic/DETI or another contractor to construct the proposed facilities.

- Atlantic will relieve compaction of the exposed subsoil prior to topsoil replacement. Subsoil compaction will be relieved on the working side of the ROW utilizing a paraplow or other appropriate implement. After decompaction and prior to topsoil replacement, a disc or harrow will be utilized, as necessary, to smooth the subsoil surface.
- Following final grading and topsoil replacement, Atlantic will conduct deep tillage to relieve soil compaction on the working side of the ROW or will test soils for compaction at regular intervals.
- If trench dewatering is necessary, the water will be discharged into a constructed energy-dissipating structure to prevent damage to adjacent agricultural land, drainage systems, and crops.
- Atlantic will control excessive dust emissions generated during construction, as necessary, by controlling vehicle speeds, or wetting the construction area. If wetting is necessary to control dust, only water will be utilized.
- Atlantic will compensate the landowners for direct crop losses (including livestock) as a result of pipeline construction. Following completion of initial restoration, Atlantic will work with the landowner to identify and remediate any further pipeline construction impacts on soil and crop productivity, and drainage systems.
- Atlantic will repair or replace any culverts damaged by construction activities.
- Atlantic will review applicable elements of this *Organic Farm Protection Plan* and site-specific construction practices with the landowner and, if requested by the landowner, a mutually acceptable third party organic certifier to ensure that construction activities will not affect the organic certification of the farm.
- Atlantic will avoid the application of prohibited substances onto the property.
- Topsoil and subsoil will be stored separately and replaced in the proper sequence after the pipeline is installed. Topsoil and subsoil will neither be removed from nor imported to the property.
- Erosion control procedures will be designed so that sediment from adjacent non-organic agricultural land will not flow off the ROW and be deposited on the property.
- During construction, Atlantic will leave an earthen plug in the trench at the boundary of the farm to prevent trench water flowing from adjacent land into the trench on the property.
- Following construction, if invasive plant species are found to have appeared on the ROW as a result of Atlantic's activities, Atlantic will consult with the landowner regarding necessary remediation, and implement controls for invasive plant species consistent with the landowner's organic system plan. No chemicals

or defoliant will be used on the property to control invasive species or be allowed to drift on to the property from adjoining parcels.

In addition to the mitigation measures listed above, the following site-specific measures, developed in coordination with the landowner, will be implemented at Certified Organic Farm 2:

- Atlantic may grind and chip any timber cut during clearing of the ROW, and may disperse such chips on the ROW or adjacent areas outside the ROW at a rate not to exceed 1 ton per acre. Chips may be temporarily stored in piles but will not be permanently piled; they will be removed, dispersed, or spread.
- Atlantic will clean all vehicles, equipment and materials as necessary to ensure they arrive on the property free of soil and/or other contaminants.
- Atlantic will reseed the ROW with “Certified Organic Pasture Blend,” produced by High Mowing Organic Seeds.