

Transmission Project #77246

Project Name and Ownership

View Project Map

Project Name Mackeys - Creswell 115kV Line Rebuild	Data Source ID# b2876	C Three ID# 77246
Project Family Group	Related Generation Database Link	Related Pipeline Database Link
Related Telecommunications Database Link		
Holding Company or Parent Organization Dominion Energy	Utility or Company Type Investor-Owned Utility	See All of This Company's Projects Dominion Energy
Utility Dominion North Carolina Power	Direct Project Owner	
Co-owner(s)	Ownership Details	
<input type="checkbox"/> Competitive Project	<input type="checkbox"/> Merchant Project	
Project Contact Information		
RTEP@pjm.com		
Project Contact 2		

Project Details

Project Type Line Upgrade	Generation Type	Project Status Early Development
Primary Reason or Driver Reliability		
Project Description Rebuild Line #101 from Mackeys to Creswell, 14 miles, with double circuit steel structures. Install one circuit with provisions for a second circuit. Provisions for a future second circuit would allow networking of the line (Mackeys - Creswell) if the 700 MW-mile level was exceeded. The conductor used will be at current standards (636 ACSR) with a summer emergency rating of 262 MVA at 115kV. Additional right-of-way is required for the temporary line.		
As Built Voltage 115	Rating (MVA): 262	<input type="checkbox"/> HVDC
Reported In Service Year: 2022	Reported In Service Month: 12	C Three In Service Date: 2022
Planned or Actual Construction Start Date:	Year Publicly Announced:	
Country: US		
Endpoint 1 Substation: Mackeys	Endpoint 1 County:	Endpoint 1 State: NC
Latitude: End Point 1 35.927068	Longitude: End Point 1 -76.618612	<input type="checkbox"/> Endpoint 1 Accuracy: Exact
Endpoint 2 Substation: Creswell	Endpoint 2 County:	Endpoint 2 State: NC
Latitude: End Point 2 35.876516	Longitude: End Point 2 -76.383136	<input type="checkbox"/> Endpoint 2 Accuracy: Exact
Midpoint Connection:	Latitude: Mid Point 1	Longitude: Mid Point 1
	<input type="checkbox"/> Midpoint Accuracy: Exact	
Latitude: Mid Point 2	Longitude: Mid Point 2	Latitude: Mid Point 3
		Longitude: Mid Point 3
Latitude: Mid Point 4	Longitude: Mid Point 4	
NERC Regional Entity SERC Reliability Corporation (SERC)	RTO or ISO (FERC Planning): PJM Interconnection	
Reported Cost or Budget: 36,700,000	Currency US Dollars	C Three Estimated Cost:
Contractor(s):		
Project Website:	Maps	

Line Miles Distribution

Total Line Miles:
14.0

Line Miles: 2007	Line Miles: 2008	Line Miles: 2009	Line Miles: 2010	Line Miles: 2011	Line Miles: 2012	Line Miles: 2013	Line Miles: 2014	Line Miles: 2015	Line Miles: 2016
Line Miles: 2020	Line Miles: 2021	Line Miles: 2022	Line Miles: 2023	Line Miles: 2024	Line Miles: 2025	Line Miles: 2026	Line Miles: 2027	Line Miles: 2028	Line Miles: 2029

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Line Information

<input type="checkbox"/> Line: New	<input checked="" type="checkbox"/> Line: Upgrade	<input type="checkbox"/> Line: Reconductor
<input type="checkbox"/> Tap/Interconnection/Loop	<input type="checkbox"/> Line: Thermal/Sag/Clearance	<input type="checkbox"/> Line: Removal/Decommission/Retire
<input type="checkbox"/> Line: Underground	<input type="checkbox"/> Line: Submarine	<input type="checkbox"/> Line: River Crossing/Wetlands

Structural Elements:

Structures Total Number 120	Structure Count Accuracy Estimate	Structures/Mile
Total Number of Structures 120		
<input type="checkbox"/> ST: Wood All Types	<input type="checkbox"/> ST: Concrete All Types	
Number of Wood Structures	Number of Concrete Structures	
<input type="checkbox"/> ST: Steel Lattice G	<input checked="" type="checkbox"/> ST: Steel Monopole	<input type="checkbox"/> ST: Steel H-Frame
<input type="checkbox"/> ST: Steel Lattice		
Number of Steel Lattice Guyed Towers	Number of Steel Monopoles 120	Number of Steel H-Frame Structures
		Number of Steel Lattice Towers
Tons of Steel (Pole): 351	Tons of Steel (Tower): 0	
Structures:		
Conductor Characteristics		
Number of Circuits: Double Circuit	<input type="checkbox"/> Line: Bundled	
Conductor Type: ACSR	<input type="checkbox"/> Fiber/Communications/SCADA/OPGW	
Conductor/Cable Characteristics: 636 ACSR		

Substation Information

Number of New Substations: 0	Number of Substation Upgrades: 0	Number of Transformers: 0	Number of New Switching Stations	<input type="checkbox"/> Sub: Switching Station	<input type="checkbox"/> GIS (Gas Insulated)
Number of Dynamic Reactive Devices:	<input type="checkbox"/> Dynamic Reactive Devices:	Number New Converter Stations:	Number of Capacitors	<input type="checkbox"/> Sub: Switches	Number of
<input type="checkbox"/> Sub: Breakers	Number of Breakers	kA (Breakers)			
<input type="checkbox"/> Sub: Capacitors	MVAR				
<input type="checkbox"/> Sub: Terminal Equipment	<input type="checkbox"/> Sub: Shunt Reactors	<input type="checkbox"/> Sub: Wave Traps			
<input type="checkbox"/> Sub: Bus Work	<input type="checkbox"/> Sub: Relays	<input type="checkbox"/> Sub: Removal/Decommission/Retire			

Communication/Control

Other Project Type

Project Record History

Out of Cycle Review

C Three Analyst Notes (Helpful Hints)

Project Profile History

March 2019: Construction Informational Meeting Tuesday, December 4, 2018, 5:30 - 7:00 p.m. <https://bit.ly/2XzjyJO>

February 2019: Cost updated. PJM Baseline Planned 1.31.2019

June 2018: No changes. PJM Full Report Book 1 <http://bit.ly/2Hr796f>

May 2018: 0% complete PJMBaselinePlanned4.30.2018 <https://bit.ly/2reYnlC>

November 2017: Added Data Source ID/# PJMBaselinePlanned11.13.2017 <http://bit.ly/2jGdrsh>

June 2017: <http://bit.ly/2qSUISV>

Last C Three Update: MAR-06-2019	Last Updated By: Douglas Suto	Reason For Last Update: Status Update	Record Owner: Rothermel, Austin	Date Created: 06-05-2017	Date Modified: 01-29-2020 10:38 AM
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C3 ISD Change --[[JUN-05-17 Austin Rothermel]]----- 2022	Reported ISD Change History --[[JUN-05-17 Austin Rothermel]]----- 2022
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Project News

Project Record News or History

Add News Story

Date of Article	News Article Headline:	News Article Link
No TRANSMISSION NEWS found		