Project Overview

- DPL is constructing the second phase of a critical 58-mile, 230,000-volt transmission line
- $71 million project
- Construction began in Spring, 2017
- Construction complete in May, 2018
- Required to meet reliability standards
  - North American Electric Reliability Corporation (NERC)
  - PJM Interconnection
- Existing wooden “H-Frame” transmission structures will be replaced with single-pole steel that can withstand winds up to 120 miles per hour
Project Overview

PROPOSED 230kV CIRCUIT 23030
EXISTING 230kV CIRCUIT 23030
(TO BE REMOVED)

230kV CIRCUIT 23032

105'-165'

75'-100'

63'-105'

20'-0''

40'-0'' ±

15'-0'' ±

40'-0'' ±

35'-0'' ±

23030

ROW

23032

150'-0''

EDGE OF R.O.W.

EDGE OF R.O.W.
Project Overview

Existing Conditions

New Conditions

Red Lion - Milford

Date: 6/25/2014
Time: 1:15 PM
Viewing Direction: Southwest

LEGEND
- Viewpoint Location
- Existing Line
- Existing Line (To Be Removed)
- Proposed Line
- Right-Of-Way

PLANS SHOWN ARE FOR INFORMATION PURPOSES ONLY AND MAY CHANGE PENDING PUBLIC HEARING AND UTILITY REVIEW.
Project Overview

- 43 Miles
- 3 Counties
- 384 Poles
- 8 Laydown Yards
- 11 Helicopter Construction Areas
- 35 Cultural Resource Locations
- 43 Raptor Nests (and counting!)
- 10 Major Watercourses Crossed
- 92 Tidal & Nontidal Wetlands Crossed
- 5 State Wildlife Areas (DFW)
- 7 State Natural Areas (DFW)
State Lands

- DNREC Permit required coordination with Program Managers
- Hunting Time-of-Year Restrictions: November
Impact Analysis

- Foundations
  - Caissons (6-ft diameter)
  - Drilled Piers (10-ft diameter)
- Permanent Impacts Vs. Temporary Impacts
- Tidal / Non-tidal wetlands

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<thead>
<tr>
<th></th>
<th>Permanent</th>
<th>Temporarily</th>
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<tbody>
<tr>
<td>Tidal</td>
<td>0.02</td>
<td>10.1</td>
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<tr>
<td>Non-tidal</td>
<td>0.04</td>
<td>16.9</td>
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## Permitting and Licensing

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<td>USACE – Nationwide 3 Permit</td>
<td>DNREC Wildlife Species Conservation &amp; Research Program</td>
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Cultural Resources

- Archaeological & Architectural Studies Conducted
- Artifacts recovered: 12,102
- Phase I - identified 35 archaeological sites
- Phase II - 33 sites identified for protection
- Enhanced Phase II - 2 sites identified for excavation
Cultural Resources

- 35 archaeological sites
  - Composite matting base pads installed at each pole location
  - Orange Construction Fencing (OCF) installation along the perimeter of the composite matting
Cultural Resources

- Redesign within the St Jones Neck Historic District
  - Tangent brace post construction to lower pole heights within the District
    - Originally 13 davit arm structures proposed
    - Redesigned to 24 tangent brace post structures to stay within viewshed of the tree line and the adjacent circuit.
Raptor Nests

• 20 nests were observed during the August, 2017 survey.
  – 14 are located on existing structures within the ROW that are proposed to be removed.
  – 4 are located on new steel monopoles that were recently installed.
  – 2 are located in trees that are in close proximity to the ROW.
Raptor Nests

- **In ROW**
  - Defeated Excluders
  - Nesting on newly constructed structures

- **Off ROW**
  - Buffers associated with off-ROW eagle nests
  - Nesting on Phase I Red Lion to Cedar Creek Structures
Avoidance and Minimization

- Erosion and Sediment Control
  - 75 SCEs
  - 53 Temporary bank-to-bank bridges
  - 23 Miles of filter log
  - 71 acres of composite matting
Avoidance and Minimization

- Low Impact Vehicle and Aircrane Construction
Environmental Monitoring

- **The Monitor’s Role**
  - Serve as eyes and ears of PHI
  - Document compliance and non-compliance
  - Facilitates communication
  - Proactive issue resolution
  - Recommends measures to stay in compliance
## Environmental Monitoring

- The Monitor’s Role (Cont.)

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<td>Contractor Expectations</td>
<td>Agency Coordination and Involvement</td>
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<td>Public Interaction</td>
<td>Opportunities to minimize impacts</td>
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<td>Avoiding Violations</td>
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<td>Water Quality</td>
<td>Team Integration</td>
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Environmental Monitoring

- Focus Areas
Environmental Monitoring

- Focus Areas (Cont.)
  - Permit Compliance
  - Regulated Resources
  - Erosion & Sediment Control
  - Minimization of Impacts
  - RTE species protection
  - Project Commitments
  - Wetland Flagging
  - Pre-Construction Photographs
  - Plan Modification Submittals- DNREC / County
Environmental Monitoring

- Documentation - ECAT
  - Inspection Reporting
  - Notifications
  - Issue Tracking/Resolution
  - Photo Documentation
  - Permit Condition Review
Environmental Monitoring

- 119 Total Compliance Reviews
- 2,100 Total Hours
- 1,574 Total Images Uploaded
- 53 Total Issues Open
- 49 Issues Closed (9/28)
Contact Us

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