

Peregrine Ditch

General Information

Proposing entity name	Company confidential and proprietary information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Company confidential and proprietary information
Company proposal ID	Company confidential and proprietary information
PJM Proposal ID	541
Project title	Peregrine Ditch
Project description	Designated Entity Statement of Intent: The Proposing Entity seeks consideration as the Designated Entity for the Project. If selected, the Proposing Entity reserves the right to assign the Project to any of its affiliate(s) if circumstances deem appropriate. Any future assignment to affiliate(s) would be with PJM-established entities. The Proposing Entity does not foresee any potential assignment materially impacting the Project's constructability or schedule. Project Description Info: Construct greenfield station and two circuit cut-ins. Construct a greenfield 4-breaker ring station (Peregrine Ditch 345 kV) in Union Township, IN. Tap Olive–Green Acres 345 kV and Olive-University Park 345 kV at Tower #275 (the ownership transition point between AEP and NextEra, formerly owned by ComEd), into the new station. Please note: The impedance, ratings, and results provided in this proposal assume that NEET supplemental projects (s2509 & s2631) and ComEd East Frankfort-Crete rebuild (#253 in the 2021 RTEP Window #2) were already applied in the case first. These assumptions are also contained in the modeling files and ratings below as this project taps lines included in those previous submissions, therefore changing the impedance.
Email	Company confidential and proprietary information
Project in-service date	01/2025
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Company confidential and proprietary information

Project Components

1. AEP T-line cut-ins
2. NEET T-line cut-ins
3. Peregrine Ditch Station

Transmission Line Upgrade Component

Component title	AEP T-line cut-ins
Project description	Company confidential and proprietary information
Impacted transmission line	Olive - University Park 345 kV
Point A	Olive 345 kV
Point B	Peregrine Ditch 345 kV
Point C	
Terrain description	The general terrain and land use is relatively flat open agricultural lands, mixed with residential areas, public roadways, railroads, and overhead transmission lines. Wetlands, as identified in the National Wetland Inventory, are located to the west, southwest, and northeast of the Project area, including a small lake to the northeast. No FEMA floodplains are in vicinity of the Project area. A limited number of trees exists within vicinity of the Project area.

Existing Line Physical Characteristics

Operating voltage	345
Conductor size and type	The existing conductor size is 1,414 kcmil 62/19 Strand ACSR/AE.
Hardware plan description	No existing hardware would be used. The cut in would deadend near AEP's existing lattice tower #276 and turn the 345kV lines in to the proposed Peregrine Ditch 345kV station.
Tower line characteristics	The condition of the existing line is assumed to be in good working order based on physical assessment. Structure loading at adjacent structures would remain unchanged due to proposed structure locations on cL and near existing tower locations.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	345.000000	345.000000
	Normal ratings	Emergency ratings
Summer (MVA)	971.000000	971.000000
Winter (MVA)	1234.000000	1234.000000
Conductor size and type	2 – bundled, 954 kcmil 54/7 Strand “Cardinal” ACSS	
Shield wire size and type	159 kcmil 12/7 Strand “Guinea” ACSR	
Rebuild line length	This project requires 0.44-mile single circuit cut in of the existing 345kV AC overhead transmission line.	
Rebuild portion description	This component will involve no rebuild portion or use of existing right-of-way.	

Right of way

The Project will be sited off W. County Road 400 N. in Valparaiso, Porter Co., IN on undeveloped agricultural land adjacent to the proposed Peregrine Ditch Station. The desktop analysis found no public lands would be required for this Project. The private land use is agricultural as identified through desktop analysis and verified through the Porter Clerk's Office. Although it does not appear the project will impact wetlands, wetlands are located to the northeast and southwest of the Project area. The private land requirements include new 345kV cut-ins to loop in & out of the new station off the existing Tower #275 on the Olive-Green Acres 345kV and Olive-University Park 345kV lines. The new 345kV lines will require 0.07-mile of 200' wide ROW corridor where land use is predominantly agricultural. The Proposing Entity will use proven land acquisition processes and approaches that have been successfully employed on projects over the years in Indiana. The Proposing Entity's initial land acquisition step is to verify current ownership by an examination of title and current property tax status, as well as document any liens or mortgages. The Proposing Entity will also determine if the subsurface estate is severed from the surface. Once ownership is established, the Proposing Entity will negotiate with property owners based on the fair market value of the property needed for the station site and access road (both fee purchases). Market data studies and appraisals, both general and for specific tracts, will be conducted to establish values and a basis for acquisition negotiations. Good Faith negotiations will be made with all landowners. Negotiations will be done in an ethical, non-confrontational and non-threatening manner with landowners. The long-term relationship with landowners is paramount and will be kept in mind in all negotiations, and honesty, integrity and professionalism will be displayed at all times. Negotiations will continue as long as practical to reach a voluntary agreement. If, and only if, it becomes evident that a voluntary fee purchase agreement between the Proposing Entity and the property owner cannot be reached, and other viable alternatives do not exist, the Proposing Entity may exercise the right of eminent domain to secure required property through condemnation proceedings.

Construction responsibility

Company confidential and proprietary information

Benefits/Comments

Company confidential and proprietary information

Component Cost Details - In Current Year \$

Engineering & design

Company confidential and proprietary information

Permitting / routing / siting

Company confidential and proprietary information

ROW / land acquisition

Company confidential and proprietary information

Materials & equipment

Company confidential and proprietary information

Construction & commissioning

Company confidential and proprietary information

Construction management

Company confidential and proprietary information

Overheads & miscellaneous costs

Company confidential and proprietary information

Voltage (kV)	345.000000	345.000000
	Normal ratings	Emergency ratings
Summer (MVA)	1482.000000	2058.000000
Winter (MVA)	1874.000000	2318.000000
Conductor size and type	2 – bundled, 954 kcmil 54/7 Strand “Cardinal” ACSS	
Shield wire size and type	159 kcmil 12/7 Strand “Guinea” ACSR	
Rebuild line length	This project requires 0.44-mile single circuit cut-in of the existing 345kV AC overhead transmission line.	
Rebuild portion description	This component will involve no rebuild portion or use of existing right-of-way.	
Right of way	<p>The Project will be sited off W. County Road 400 N. in Valparaiso, Porter Co., IN on undeveloped agricultural land adjacent to the proposed Peregrine Ditch Station. The desktop analysis found no public lands would be required for this Project. The private land use is agricultural as identified through desktop analysis and verified through the Porter Clerk’s Office. Although it does not appear the project will impact wetlands, wetlands are located to the northeast and southwest of the Project area. The private land requirements include new 345kV cut-ins to loop in & out of the new station adjacent to the existing Tower #275 on the Olive-Green Acres 345kV and Olive-University Park 345kV lines. The new 345kV cut-in lines will require 0.18-mile of two 150’ wide ROWs where the land use is predominantly agricultural. The Proposing Entity will use proven land acquisition processes and approaches that have been successfully employed on projects over the years in Indiana. The Proposing Entity’s initial land acquisition step is to verify current ownership by an examination of title and current property tax status, as well as document any liens or mortgages. The Proposing Entity will also determine if the subsurface estate is severed from the surface. Once ownership is established, the Proposing Entity will negotiate with property owners based on the fair market value of the property needed for the station site and access road (both fee purchases). Market data studies and appraisals, both general and for specific tracts, will be conducted to establish values and a basis for acquisition negotiations. Good Faith negotiations will be made with all landowners. Negotiations will be done in an ethical, non-confrontational and non-threatening manner with landowners. The long-term relationship with landowners is paramount and will be kept in mind in all negotiations, and honesty, integrity and professionalism will be displayed at all times. Negotiations will continue as long as practical to reach a voluntary agreement. If, and only if, it becomes evident that a voluntary fee purchase agreement between the Proposing Entity and the property owner cannot be reached, and other viable alternatives do not exist, the Proposing Entity may exercise the right of eminent domain to secure required property through condemnation proceedings.</p>	

Construction responsibility	Company confidential and proprietary information
Benefits/Comments	Company confidential and proprietary information
Component Cost Details - In Current Year \$	
Engineering & design	Company confidential and proprietary information
Permitting / routing / siting	Company confidential and proprietary information
ROW / land acquisition	Company confidential and proprietary information
Materials & equipment	Company confidential and proprietary information
Construction & commissioning	Company confidential and proprietary information
Construction management	Company confidential and proprietary information
Overheads & miscellaneous costs	Company confidential and proprietary information
Contingency	Company confidential and proprietary information
Total component cost	\$2,619,548.00
Component cost (in-service year)	\$2,862,450.00

Greenfield Substation Component

Component title	Peregrine Ditch Station
Project description	Company confidential and proprietary information
Substation name	Peregrine Ditch
Substation description	Construct a greenfield station to install a proposed 4-breaker ring configuration on the Olive (AEP)-Green Acres (NIPSCO) 345KV Line as well as the Olive (AEP)–University Park (ComEd) line. This scope includes installing a 4–breaker ring bus so the lines involved are electrically tied. This scope assumes the land adjacent to Tower #275 is available for purchase and requires minimum grading on a parcel of 500' x 410' in size. On this parcel we will require a fenced area of approximately 382' x 269'. Access to this site will require a drive access approximately 795' in length from the nearest accessible road.
Nominal voltage	AC

Nominal voltage 345

Transformer Information

None

Major equipment description 4 – 345kV, 3000A, 50kA Breakers 8 – 345kV, 3000A, 100kA double-end breaker disconnect switches 12 – 345KV line CCVTs 4 – 345KV Wave Traps 12 – 209kV MCOV line side station class surge arresters 2 – 345KV/207KV, 120/240VAC Power PTs

	Normal ratings	Emergency ratings
Summer (MVA)	1825.000000	2062.000000
Winter (MVA)	2022.000000	2237.000000
Environmental assessment	Land use in the vicinity of the site is predominantly open farmland and residential, with existing roads, railroads, and utilities traversing the general area. Wetlands, as identified in the National Wetland Inventory, are located to the west, southwest, and northeast of the site, including a small lake to the northeast. No FEMA floodplains are in vicinity of the site. The site is proposed on agricultural lands divided by a narrow hedgerow, requiring limited tree clearing. Impacts to federal, state, and county regulated water resources, floodplains, and protected species are not anticipated for the substation and driveway. The Project would require the use of appropriate best management practices and a general construction stormwater permit from the Indiana Department of Environmental Management.	
Outreach plan	Public outreach is a critical component to the Proposing Entity's siting process, so efforts will include properly informing the public; federal, state, and local agencies; local governments; and other key stakeholders on the need for, and benefits of, this Project. The Proposing Entity's approach to public outreach is to be candid and transparent at all times, and to offer a variety of tools and means for directly impacted parties to engage with our staff. The Proposing Entity will provide development updates to local government officials, key stakeholders, and impacted parties as the Project progresses. Public outreach also will involve collecting information about landowner properties and communicating with directly affected landowners during the final siting process.	

Land acquisition plan

The proposed Peregrine Ditch Station will be sited off W. County Road 400 N. in Valparaiso, Porter Co., IN on undeveloped land adjacent to the existing Tower #275 on the Olive-Green Acres 345kV and Olive-University Park 345kV lines. The desktop analysis found no public lands would be required for this Project. The private land use is agricultural as identified through desktop analysis and verified through the Porter County Clerk's Office. The private land requirements include approximately 4.7 acres for the new station site/detention pond and 0.88 of an acre of access road from W. County Road 400 N. to the new station site. The total Project acreage is 5.58 acres and is to be purchased in fee. The proposed station site and access road placement were chosen to minimize impacting farming operations and environmental resources. The Proposing Entity will use proven land acquisition processes and approaches that have been successfully employed on projects over the years in Indiana. The Proposing Entity's initial land acquisition step is to verify current ownership by an examination of title and current property tax status, as well as document any liens or mortgages. The Proposing Entity will also determine if the subsurface estate is severed from the surface. Once ownership is established, the Proposing Entity will negotiate with property owners based on the fair market value of the property needed for the station site and access road (both fee purchases). Market data studies and appraisals, both general and for specific tracts, will be conducted to establish values and a basis for acquisition negotiations. Good Faith negotiations will be made with all landowners. Negotiations will be done in an ethical, non-confrontational and non-threatening manner with landowners. The long-term relationship with landowners is paramount and will be kept in mind in all negotiations, and honesty, integrity and professionalism will be displayed at all times. Negotiations will continue as long as practical to reach a voluntary agreement. If, and only if, it becomes evident that a voluntary fee purchase agreement between the Proposing Entity and the property owner cannot be reached, and other viable alternatives do not exist, the Proposing Entity may exercise the right of eminent domain to secure required property through condemnation proceedings.

Construction responsibility

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Benefits/Comments

Company confidential and proprietary information.

Component Cost Details - In Current Year \$

Engineering & design

Company confidential and proprietary information.

Permitting / routing / siting

Company confidential and proprietary information.

ROW / land acquisition

Company confidential and proprietary information.

Materials & equipment

Company confidential and proprietary information.

Construction & commissioning

Company confidential and proprietary information.

Construction management

Company confidential and proprietary information.

Overheads & miscellaneous costs	Company confidential and proprietary information.
Contingency	Company confidential and proprietary information.
Total component cost	\$9,603,383.00
Component cost (in-service year)	\$10,493,876.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
MDW1-GD-W392	274804	UNIV PK N;RP	243229	05OLIVE	1	345	205/222	Winter Gen Deliv	Included
MDW1-GD-W393	274804	UNIV PK N;RP	243229	05OLIVE	1	345	205/222	Winter Gen Deliv	Included

New Flowgates

Company confidential and proprietary information

Financial Information

Capital spend start date	05/2023
Construction start date	03/2024
Project Duration (In Months)	20

Cost Containment Commitment

Cost cap (in current year)	Company confidential and proprietary information.
Cost cap (in-service year)	Company confidential and proprietary information.

Components covered by cost containment

1. Peregrine Ditch Station - AEP

Cost elements covered by cost containment

Engineering & design	Yes
Permitting / routing / siting	Yes
ROW / land acquisition	Yes
Materials & equipment	Yes
Construction & commissioning	Yes
Construction management	Yes
Overheads & miscellaneous costs	Yes
Taxes	Yes
AFUDC	Yes
Escalation	Yes
Additional Information	Company confidential and proprietary information.
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	Yes
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	No
Is the proposer offering a Debt to Equity Ratio cap?	Company confidential and proprietary information.

Additional Comments

None