Pribble Station

General Information

Proposing entity name

Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?

Company proposal ID

PJM Proposal ID

Project title

Project description

Email

Project in-service date

Tie-line impact

Interregional project

Is the proposer offering a binding cap on capital costs?

Additional benefits

Project Components

- 1. Pribble Station
- 2. Miami Fort Hubbell Tie-in
- 3. Tanners Creek Wesley SW Tie-in
- 4. Rebuild Tanners Creek Pribble 138

Company confidential and proprietary information

Company confidential and proprietary information

Company confidential and proprietary information

446

Pribble Station

Build a new 138 kV 4-breaker ring station called "Pribble." Bring the existing Tanners Creek–College Corner (AEP) & Miami Fort–Hubbell (Duke) 138 kV lines "in and out" of Pribble station. Rebuild Tanners Creek–Pribble 138 kV (5 miles) and upgrade station equipment at Tanners Creek 138 kV. Rebuild Pribble-Miami Fort 138 kV (6 miles).

Company confidential and proprietary information

03/2025

Yes

No

Yes

Company confidential and proprietary information

- 5. Pribble Miami Fort Rebuild
- 6. Tanners Creek Upgrade

Greenfield Substation Component

Component title Pribble Station

Project description Company confidential and proprietary information

Pribble Substation name

Construct a greenfield station to install a proposed 4-breaker ring configuration on the Tanners Substation description Creek-College Corner 138KV Line as well as the Hubbell-Miami Fort 138 kV Line. This scope will be installing a 4-breaker ring bus so that lines involved are electrically tied.

Nominal voltage AC

Nominal voltage 138

Transformer Information

None

Summer (MVA)

Winter (MVA)

Major equipment description

4- 138kV, 3000A, 40kA CB 8 - 138kV, 3000A, 40kA double-end break disconnect switches 4 -138KV, 3000A, 40KA line side 3-phase disconnect switches 12 - 138KV line CCVTs for the Lines of Tanners Creek #2 and College Corner #2 along with the required bus monitoring units. 2 -138KV, 3000A Wave Traps and tuners 2 – 138KV line CCVTs. One will be for the Hubble Line exit and the other will be for the Miami Fort Line exit 2 – 138KV, 3000A Wave Traps. One will be for the Hubble Line exit and the other will be for the Miami Fort Line exit. 12 – 88kV MCOV line side station class surge arresters

Normal ratings	Emergency ratings
730.000000	809.000000
756.000000	895.000000

Environmental assessment

Outreach plan

The Proposing Entity considered a general study area within relatively close proximity to the Tanners Creek-Wesley SW 138kV line and the Miami Fort-Hubbell 138kV line. The Proposed Solution was evaluated with respect to potential impacts to the surrounding communities and the environment, constructability, operations and maintenance considerations, and cost effectiveness. The selected site area is located on two parcels that consist of gently sloping pasture that is approximately 2,000' and 530' away from the Tanners Creek-Wesley SW 138kV line and Miami Fort-Hubbell 138kV line, respectively. A driveway approximately 285' long will be needed from Pribble Road to access the site. There are no FEMA-mapped floodplains within or adjacent to the site. A small private pond, identified as a wetland in the National Wetland Inventory (NWI), is located about 125' southeast of the site, but is located across Pribble Road from the site. One NWI stream is located about 500' southwest of the site. Based on aerial imagery, other streams could be adjacent to the site as well. To ensure appropriate due diligence for environmental protection, studies will be completed for the site and proposed access including a wetland and stream delineation, habitat assessment, threatened and endangered species review, and a cultural resources review. Following these studies, the driveway or layout may be adjusted to avoid or minimize impacts to environmental resources. Construction should be covered under a general construction storm water permit from IDEM, which will also require appropriate best management practices to be installed prior to construction to manage storm water runoff. Additionally, appropriate post-construction storm water controls will be implemented as necessitated by the design.

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 Proposed Solution. 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 Proposed Solution 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

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

The desktop analysis found there were no public lands required for this Proposed Solution. The private land use is agricultural as identified through desktop analysis. The private land requirements include approximately 3.31 acres for the new station site/detention pond/grading and 0.55 acres for the access road to the new station, for a total of about 3.86 acres to be purchased in fee. Station site and access road placement were chosen to minimize impacting agricultural operations. The Proposing Entity will use proven land acquisition processes and approaches that have been successfully employed on projects in IN. 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 (fee purchase). 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 conducted in an ethical, non-confrontational and non-threatening manner with the landowners. The long-term relationship with the 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.

Company confidential and proprietary information

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Total component cost \$5,788,758.00

Component cost (in-service year) \$6,325,532.00

Transmission Line Upgrade Component

Component title Miami Fort - Hubbell Tie-in

Project description Company confidential and proprietary information

Impacted transmission line Miami Fort - Hubbell

Point A Miami Fort Station

Point B Pribble Station

Point C Hubbell Station

Terrain description

To connect the Miami Fort-Hubbell 138kV line to the Pribble Substation and as part of the rebuild of Miami Fort-Hubbell 138kV, an approximate 1,200' long cut-in line would need to be constructed.

This line would be located in relatively flat to gently rolling terrain mostly comprised of pasture or

open undeveloped land.

Existing Line Physical Characteristics

Operating voltage 138 kV

Conductor size and type

The new double circuit line will be constructed using 1272 kcmil (54/19) Strand ACSS "Pheasant"

conductor.

Designed

Hardware plan description No existing hardware would be used.

Tower line characteristics

The new double circuit line will be constructed with 138kV galvanized custom steel poles.

Proposed Line Characteristics

Voltage (kV) 138.000000 138.000000

Normal ratings Emergency ratings

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Operating

Summer (MVA)
Winter (MVA)

Conductor size and type

Shield wire size and type

Rebuild line length

Rebuild portion description

645.000000 679.000000

645.000000 679.000000

The new double circuit line will be constructed using 1272 kcmil (54/19) Strand ACSS "Pheasant" conductor on 0.23 mile long 138kV AC overhead transmission line cut-in from the tap point on the Tanners Creek-Wesley SW 138kV Line to Pribble Station

The proposed rebuild will utilize a 0.646" 96ct fiber OPGW as the first shield wire and a 7#10 Alumoweld as a second shield wire.

The proposed double circuit 138kV cut-in line will be 0.23 miles from the proposed tap location on the Miami Fort-Hubbell 138kV Line near Pribble Road to the proposed Pribble Station.

The approximate 1,200' long cut-in line from Miami Fort-Hubbell 138kV line to the Pribble Substation would be located in relatively flat to gently rolling terrain mostly comprised of pasture or open undeveloped land. One local roadway crossing would be required. There are no FEMA-mapped floodplains or NWI wetlands and streams being crossed by the proposed line. Based on aerial imagery, streams or wetlands could be located within the lower elevations. To ensure appropriate due diligence for environmental protection, studies will be completed for the alignment and proposed access including a wetland and stream delineation, habitat assessment, threatened and endangered species review, and a cultural resources review. Following these studies, the alignment or access may be adjusted to avoid or minimize impacts to environmental resources. Construction should be covered under a general construction storm water permit from IDEM, which will also require appropriate best management practices to be installed prior to construction to manage storm water runoff.

Right of way

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

The approximate 1,200' long cut-in line from Miami Fort-Hubbell 138kV line to the Pribble Substation would potentially cross four parcels; however, one of which would be purchased in fee for the Pribble Substation component and the other three parcels includes the existing Miami Fort-Hubbell 138kV line. The ROW for the cut-in lines would be 150-200' wide. The desktop analysis found there were no public lands required for this Proposed Solution. The private land use appears to be agricultural or undeveloped as identified through desktop analysis. The Proposing Entity will use proven land acquisition processes and approaches that have been successfully employed on projects in IN. 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 Proposed Solution. 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 conducted in an ethical, non-confrontational and non-threatening manner with the landowners. The long-term relationship with the 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.

Company confidential and proprietary information

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Contingency Company confidential and proprietary information

Total component cost \$442,695.00

Component cost (in-service year) \$483,746.00

Transmission Line Upgrade Component

Component title Tanners Creek – Wesley SW Tie-in

Project description Company confidential and proprietary information

Impacted transmission line Tanners Creek -Wesley SW

Point A Tanners Creek Station

Point B Pribble Station

Point C Wesley SW Station

Terrain description

To connect the Tanners Creek-Wesley SW 138kV to the Pribble Substation and as part of the rebuild of Tanners Creek-Wesley SW, an approximate 1,900' long cut-in line would need to be constructed. This line would be located in gently rolling pasture divided by a forested area and an

NWI stream.

Existing Line Physical Characteristics

Operating voltage 138

Conductor size and type

The new double circuit line will be constructed using 1272 kcmil (54/19) Strand ACSR "Pheasant"

conductor.

Hardware plan description No existing hardware would be used.

Tower line characteristics

The new double circuit line will be constructed with 138kV lattice towers.

Proposed Line Characteristics

Designed Operating

Voltage (kV) 138.000000 138.000000

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Summer (MVA)

Winter (MVA)

Conductor size and type

Shield wire size and type

Rebuild line length

Rebuild portion description

Normal ratings	Emergency ratings
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338.000000 427.000000

483.000000 538.000000

This project requires construction of a 0.36 mile long 138kV AC transmission line cut-in from the tap point on the Tanners Creek-Wesley SW 138kV Line to Pribble Station. The line will be constructed using 1272 kcmil (54/19) Strand ACSR Pheasant conductor

The proposed rebuild will utilize a 0.646" 96ct fiber OPGW as the first shield wire and a 7#10 Alumoweld as a second shield wire.

The proposed double circuit 138kV line will be 0.36 miles from the proposed tap location between existing towers 24 and 25 on the Tanners Creek-Wesley SW 138kV Line to the proposed Pribble Station.

The approximate 1,900' long cut-in line from Tanners Creek-Wesley SW 138kV line to the Pribble Substation would be located in gently rolling pasture divided by a forested area and an NWI stream. Based on aerial imagery, other streams or wetlands could be located within the forested area. To ensure appropriate due diligence for environmental protection, studies will be completed for the alignment and proposed access including a wetland and stream delineation, habitat assessment, threatened and endangered species review, and a cultural resources review. Following these studies, the alignment or access may be adjusted to avoid or minimize impacts to environmental resources. Construction should be covered under a general construction storm water permit from IDEM, which will also require appropriate best management practices to be installed prior to construction to manage storm water runoff.

Right of way

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

The approximate 1,900' long cut-in line from Tanners Creek-Wesley SW 138kV line to the Pribble Substation would potentially cross three parcels; however, portions of one or two of the parcels would be purchased in fee for the Pribble Substation component and the other parcel includes the existing Tanners Creek-Wesley SW 138kV line. The ROW for the cut-in lines would be 150' wide. The desktop analysis found there were no public lands required for this project. The private land use appears to be agricultural as identified through desktop analysis. The Proposing Entity will use proven land acquisition processes and approaches that have been successfully employed on projects in IN. 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 project. 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 conducted in an ethical, non-confrontational and non-threatening manner with the landowners. The long-term relationship with the 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.

Company confidential and proprietary information

Total component cost \$442,695.00

Component cost (in-service year) \$483,746.00

Transmission Line Upgrade Component

Component title Rebuild Tanners Creek – Pribble 138

Project description Company confidential and proprietary information

Impacted transmission line Tanners Creek -Wesley SW

Point A Tanners Creek Station

Point B Pribble Station

Point C

Terrain description

The Tanners Creek-Wesley SW 138kV upgrade is approximately 4.63 miles in length from the

Tanners Creek Substation to the proposed Pribble Substation tap point. From Tanners Creek

Substation the terrain of the first mile is relatively flat and located partially within floodplain, while the

northern 3.63 miles is moderately steep to hilly.

Existing Line Physical Characteristics

Operating voltage 138

Conductor size and type

The existing conductor to be retired is a 636 kcmil 26/7 strand "Grosebeak" ACSR

Designed

Hardware plan description No existing hardware would be used.

Tower line characteristics The existing double circuit lattice towers are 1954 vintage and in need of retirement. The proposed

line will utilize approximately 25 new double circuit lattice towers.

Proposed Line Characteristics

Voltage (kV) 138.000000 138.000000

Normal ratings Emergency ratings

2022-W1-446

Operating

Summer (MVA)	338.000000	427.000000				
Winter (MVA)	483.000000	538.000000				
Conductor size and type	This project requires construction of a 4.63 mile long 138kV AC transmission line between the existing Tanners Creek Station and the Pribble Station. The new double circuit line will be constructed using 1272 kcmil (54/19) Strand ACSR Pheasant conductor					
Shield wire size and type	The proposed rebuild will utilize a 0.646" 96ct fiber OPGW as the first shield wire and a 7#10 Alumoweld as a second shield wire.					
Rebuild line length	The existing 138kV line will require a rebuild of 4.63 miles as a double circuit line to the proposed tap point near Pribble Station.					
Rebuild portion description	It is anticipated that the Proposed Solution would be contained within the existing maintained ROW and be upgraded to the same voltage, so no new siting and ROW would be required.					
Right of way	It is anticipated that the Proposed Solution would not require new ROW; however, current landowners crossed by the existing transmission line would need to be notified of the proposed upgrades.					
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	on				
Permitting / routing / siting	Company confidential and proprietary information	on				
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	on				
Overheads & miscellaneous costs	Company confidential and proprietary information	on				
Contingency	Company confidential and proprietary information	on				

Total component cost \$15,601,560.00

Component cost (in-service year) \$17,048,246.00

Transmission Line Upgrade Component

Component title Pribble - Miami Fort Rebuild

Project description Company confidential and proprietary information

Impacted transmission line Miami Fort - Hubbell

Point A Miami Fort Station

Point B Pribble Station

Point C

Terrain description

The Miami Fort-Hubbell 138kV upgrade is approximately 5.71 miles in length from the proposed Pribble Substation tap point to the Miami Fort Substation. The first 2.65 miles from the tap point is within hilly terrain, while the eastern portion of about 3.06 miles is relatively flat floodplain area.

Existing Line Physical Characteristics

Operating voltage 138

Conductor size and type Unknown

Hardware plan description No existing hardware would be used.

Tower line characteristics

The existing 6-wired 138kV lattice tower line will require a complete rebuild from Miami Fort to the proposed tap point near Pribble Road. The proposed line will be built as a traditional single circuit 138kV AC line.

Proposed Line Characteristics

Voltage (kV) 138.000000 138.000000

Designed

Normal ratings Emergency ratings

2022-W1-446

Operating

Summer (MVA)	645.000000	679.000000				
Winter (MVA)	645.000000	679.000000				
Conductor size and type	This project requires construction of a 5.71 mile long 138kV AC transmission line between the existing Miami Fort Station and Pribble Station. The new line will be constructed using 1272 kcmil (54/19) Strand ACSS "Pheasant" conductor.					
Shield wire size and type	The proposed rebuild will utilize a 0.646" 96ct fiber OPGW as the first shield wire and a 7#10 Alumoweld as a second shield wire.					
Rebuild line length	The existing 138kV line will require a rebuild of 5.71 miles as a single circuit line to the proposed tap point near Pribble Station.					
Rebuild portion description	It is anticipated that the Proposed Solution would be contained within the existing maintained ROW and be upgraded to the same voltage, so no new siting and ROW would be required.					
Right of way	It is anticipated that the Proposed Solution would not require new ROW; however, current landowners that are crossed by the existing transmission line would need to be notified of the proposed upgrades.					
Construction responsibility	Company confidential and proprietary information					
Benefits/Comments	Company confidential and proprietary information					
Component Cost Details - In Current Year \$		a 0.646" 96ct fiber OPGW as the first shield wire and a 7#10 ire. re a rebuild of 5.71 miles as a single circuit line to the proposed tap d Solution would be contained within the existing maintained ROW ltage, so no new siting and ROW would be required. d Solution would not require new ROW; however, current he existing transmission line would need to be notified of the letary information etary information				
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	on				
Overheads & miscellaneous costs	Company confidential and proprietary information	on				
Contingency	Company confidential and proprietary information	on				

Total component cost \$17,135,960.00

Component cost (in-service year) \$18,724,926.00

Substation Upgrade Component

Component title Tanners Creek Upgrade

Project description Company confidential and proprietary information

Substation name Tanners Creek 138 kV

Substation zone Area 205 (AEP) Zone 1252 (AEP-IM-BES)

Tanners Creek Station 138KV Physical Upgrades which include the installation of a 138KV, 3000 AMP Line trap that will be mounted on an existing CCVT. This project is looking to upgrade several sections of strain and corresponding jumpers to increase the overall rating of the station configuration.

Transformer Information

None

New equipment description

Substation upgrade scope

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

• 3 – 88KV MCOV, station class arrester on the 138KV College Corner #2 line. • 3 – Bus jumper, single 477MCM Aluminum, 10ft long each (arrester). • 1 – 138KV, 3000A line trap (CCVT mounted). • 1 – Bus jumper, dual 2000MCM Aluminum, 20ft long each (CB to line trap). • 1 – Bus jumper, dual 2000MCM Aluminum, 10ft long each (line trap to switch). • 5 – Bus jumper, dual 2000MCM Aluminum, 15ft long each (CB to switch). • 3 – Bus jumper, dual 2000MCM Aluminum, 15ft long each (line to switch). • 12 – Strain bus assembly, dual 2000MCM Aluminum, 47ft long each (9 for Bus #2, 3 for 138KV College Corner #2 line cross bus). • 9 – Bus jumper, dual 2000MCM Aluminum, 20ft long each (between Bus #2 strain bus assemblies). • 9 – Bus jumper, dual 2000MCM Aluminum, 12ft long each (cross bus to Bus #2). • 6 – Bus jumper, dual 2000MCM Aluminum, 12ft long each (cross bus to switch).

This proposal assumes that all necessary outages will be available to execute this work.

It is anticipated that the Proposed Solution would be contained within the existing substation site and be upgraded to the same voltage, so new siting and land purchase would not be required.

Company confidential and proprietary information

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 \$289,350.00

Component cost (in-service year) \$316,180.00

Congestion Drivers

None

Existing Flowgates

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W1-GD-S58	6243262	05COLLEGE C	250001	08COLINV	1	138	205/212	Summer Gen Deliv	Included
2022W1-GD-W37	7243262	05COLLEGE C	250001	08COLINV	1	138	205/212	Winter Gen Deliv	Included

New Flowgates

Company confidential and proprietary information

Financial Information

Capital spend start date 07/2023

Construction start date 06/2024

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. Pribble Station - Transource

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?

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