Jester - Hayden

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. Jester Greenfield Station

2. Jester - Hayden 345 kV Greenfield Line

3. Jester 765 kV Line Cut-ins

Company confidential and proprietary information

Company confidential and proprietary information

Company confidential and proprietary information

343

Jester - Hayden

This proposal includes the following system components: - Jester greenfield 765/345kV station approximately 18.5 miles south of Marysville 765kV and 12 miles west of Hayden 345kV station. This station contains a 765/345kV transformer with the following thermal ratings: 2742 / 3097 / 3097 / 3296 MVA (SN/SE/WN/WE) - Approx 12 miles of greenfield 345kV double circuit transmission line between Jester greenfield 765/345kV Station and Hayden 345kV stations. Each circuit is composed of 2 bundle, 1033 ACSR "Curlew" conductors, wired as a single-circuit 6-wire line.

Company confidential and proprietary information

06/2028

Yes

No

Yes

Company confidential and proprietary information

- 4. Hayden Station 345 kV Expansion
- 5. Hyatt West Millersport 345 kV Reroute
- 6. Kenny Roberts 138 kV Upgrade
- 7. Corridor Substation Upgrade

Greenfield Substation Component

	Name	Capacity (MVA)
Transformer Information		
Nominal voltage	765/345	
Nominal voltage	AC	
Substation description	the existing 765kV Marysville to Flatlick line, inclu-	living a 3-CB 765kV ring bus that will interconnect uding a new 765/345kV transformer, and a 345kV w double circuit 345kV Hayden line (operated as a ablished on approximately 100-acres of property
Substation name	Jester Station	
Project description	Company confidential and proprietary information	า
Component title	Jester Greenfield Station	

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Transformer	Transformer Bank 1	3296	
	High Side	Low Side	Tertiary
Voltage (kV)	765	345	

Major equipment description

Summer (MVA)

Winter (MVA)

Environmental assessment

Outreach plan

- 3-CB 765KV ring bus and consisting of 3-765kV, 4000A, 50kA CB's - 18-765kV, 4000A, 1-phase, motor-operated CB disc. sw. - 3-765kV, 4000A, 1-phase, motor-operated transf. disc. sw. - 6-765kV line CCVT's - 3-765kV bus CCVT's - 6-765kV, 4000A line traps - 6-line tuners - 12-765kV CB arresters - 3-765/345kV, 750MVA,1-phase autotransformers with a 34.5kV tertiary, arresters, and oil containment - 1-345kV, 5000A, 63kA CB - 3-345kV, 5000A 1-phase, motor-operated transf. disc. - 3-345kV, 5000A, 3-phase, motor-operated CB disc. - 3-345kV CB arresters - 3-345kV bus CCVT's - 2-345kV, 3-phase, motor-operated line discharge grounding switches - 345kV-120/240V AC power system - 125VDC power system In addition to the major equipment listed above, supporting structural steel and other minor equipment will be needed such as cables, wires, foundations, etc. The station will be established on approx. 100-acres of property on agricultural land. The property will be graded for an inner fenced area of 972ft x 1,100ft, an outer fenced area of 1,012ft x 1,140ft, and includes 2-24ft gates, station stone, ground grid, and fence grounding. One (1) access road will be established. It is assumed that all necessary outages will be available.

Normal ratings	Emergency ratings
2748.000000	3097.000000
3097.000000	3296.000000

Land use at the proposed parcel for Jester Greenfield Substation is predominately agricultural (i.e., cultivated cropland) with shrub-scrub vegetation adjacent to a drainage channel that generally bisects the property. The preferred site is situated entirely on agricultural land. No residences are located on the site parcel. The Proposing Entity will complete the required environmental and cultural resource surveys on the property and no concerns are anticipated. A General Ohio/National Pollutant Discharge Elimination System (OH/NPDES) Permit is required for the project. The NPDES permit submission will include a SWPPP, erosion and sediment control plan, stormwater management plan, and pollution prevention plan. The stormwater management plan will include a narrative that describes the proposed stormwater management facilities, the limits of clearing and grading, and the proposed drainage patterns on the site, proposed buildings, roads, parking areas, utilities, and the total disturbed acreage for the site. The proposed stormwater management facilities and all associated impacts are typical of energy infrastructure projects and would not represent a risk to the overall project.

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 always candid and transparent, 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 Jester station will be 100-acres in size and purchased in fee.

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 \$101,206,943.00

Component cost (in-service year) \$113,909,306.00

Greenfield Transmission Line Component

Component title Jester - Hayden 345 kV Greenfield Line

Project description Company confidential and proprietary information

Point A Jester Station

Point B Hayden Station

Point C

Normal ratings

Emergency ratings

Summer (MVA) 2968.000000 4142.000000 3752.000000 Winter (MVA) 4646.000000 Conductor size and type The new single circuit line will be constructed using 6-Wired, 2-Bundled – 1033 kcmil (54/7 Strand) ACSR "Curlew" conductor. Nominal voltage AC Nominal voltage 345 Line construction type Overhead General route description The 345 kV line will be approximately 12 miles between the proposed Jester Substation and the existing Hayden Substation. The line crosses predominately agricultural land within Madison and Franklin counties, Ohio. Terrain description The topography for the 345 kV transmission line is relatively flat across farmland and gradually sloping adjacent to and across Big Darby Creek in Frankin County, Ohio. Right-of-way width by segment The proposed Jester-Hayden 345 kV greenfield route ROW will be 150 feet in width and will parallel/cross existing rights-of-way for roads and best minimizes potential impacts to the natural and human environments. The proposed Jester - Hayden 345 kV transmission line will cross over two existing parallel Electrical transmission infrastructure crossings single-circuit 69 kV transmission lines in Madison County. No other existing electrical infrastructure are crossed by the 345 kV line. Civil infrastructure/major waterway facility crossing plan The proposed Jester – Hayden 345 kV transmission line will not impact civil infrastructure/major waterways. The 345 kV line will aerially span Big Darby Creek, requiring less than 1 acre of riparian

tree clearing.

Environmental impacts

Tower characteristics

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

Total component cost

Component cost (in-service year)

Land use along the Bid Route corridor consists of predominately agricultural land use. The route intersects two distinct water features (i.e., Little Darby Creek and Big Darby Creek) and their FEMA-mapped floodplains and floodways. Narrow NWI-mapped wetlands are spanned adjacent to streams. Based on existing aerial photography, the proposed route likely passes unmapped wetland or drainage features. Desktop studies and record reviews will be conducted for wetlands and streams, hazardous materials, and cultural resources. No major environmental impacts or concerns were identified based on a preliminary desktop review. A General National Pollutant Discharge Elimination System (NPDES) Permit is required for the project and will be administered by Madison and Franklin counties and the city of Columbus, who are delegated program authority by the Ohio Department of Environmental Protection. The NPDES permit submission will include a Stormwater Pollution Prevention Plan (SWP3), Notice of Intent (NOI), and associated county applications if needed. There would be no proposed stormwater management facilities associated with the linear project and therefore the work would not represent a risk to the overall project.

This 345 kV, 6-wired, single circuit line utilizes self-supporting BOLD lattice tower construction that is vertically configured. Self-supporting suspension structures will be used to the extent possible as an effort to keep electrical infrastructure compatible with agricultural use.

Company confidential and proprietary information

\$59,546,483.00

\$67,020,093.00

Greenfield Transmission Line Component

Electrical transmission infrastructure crossings

Civil infrastructure/major waterway facility crossing plan

Component title Jester 765 kV Line Cut-ins Project description Company confidential and proprietary information Marysville Point A Point B Jester Point C Flatlick **Normal ratings Emergency ratings** Summer (MVA) 4047.000000 4349.000000 Winter (MVA) 4484.000000 4961.000000 The new line cut-ins will be constructed using a bundled conductor to meet/exceed SN/SE WN/WE Conductor size and type ratings stated above. Nominal voltage AC Nominal voltage 765 Overhead Line construction type General route description The 765 kV tie-ins will be approximately 0.25 mile between the proposed Jester Greenfield Substation and the existing Gavin - Marysville 765 kV transmission lines in Madison County, Ohio. Terrain description The topography for the 765 kV tie-ins is flat and consists of cultivated cropland. Land use in the surrounding area is predominately agricultural. No state or local highways are crossed by the 765 kV tie-ins. Right-of-way width by segment The 765 kV greenfield line cut-ins routes will be 200 feet each in width and minimize potential impacts to the natural and human environments.

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No electrical transmission infrastructure crossings are present with the 765kV cut-ins.

The cut-ins will not impact civil infrastructure/major waterways.

Environmental impacts The cut-ins have undergone a robust siting analysis, as well as desktop environmental and cultural resource assessments. The condition of the existing line is assumed to be in good working order. Structure loading at Tower characteristics adjacent structures would remain unchanged due to proposing structure locations on cL and near existing tower locations. Company confidential and proprietary information Construction responsibility Company confidential and proprietary information Benefits/Comments **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 Company confidential and proprietary information Materials & equipment Construction & commissioning Company confidential and proprietary information Construction management Company confidential and proprietary information Company confidential and proprietary information Overheads & miscellaneous costs Contingency Company confidential and proprietary information Total component cost \$3,584,000.00 Component cost (in-service year) \$4,033,824.00 **Substation Upgrade Component**

AEP

Component title Hayden Station 345 kV Expansion

Project description Company confidential and proprietary information

Substation name Hayden

Substation zone

Substation upgrade scope Create a new 345 kV line position to Jester Station (double circuit line operated 6-wired) by adding 1-345 kV CB to the existing ring bus, 2-345 kV take-off towers, and other associated items. **Transformer Information** None New equipment description 1-345kV, 5000A, 63kA CB - 2-345kV, 3000A, 3-phase, motor-operated CB disc. sw. - 6-345kV CB arresters - 3-345kV bus CCVT's - 2-345kV, 3-phase, motor-operated line discharge grounding switches - Install associated relay equipment in the existing control enclosure. - Necessary structural supports for equipment Substation assumptions This proposal assumes that all necessary outages will be available, the existing AC, DC, & telecom systems will accommodate the new equipment, the existing control enclosure has space for the new relay equipment, ground grid resistivity test data are available, ground grid upgrades will not be needed, the existing cable trench has space for the new control cables, soil boring logs and geotechnical report are available, additional station stone will not be needed, and space will be available to install the equipment outlined in this description. Real-estate description All necessary land rights are acquired. 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 Company confidential and proprietary information Permitting / routing / siting ROW / land acquisition Company confidential and proprietary information Company confidential and proprietary information Materials & equipment 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

\$4,742,204.00

Total component cost

Component cost (in-service year) \$5,337,393.00

Transmission Line Upgrade Component

Component title Hyatt - West Millersport 345 kV Reroute

Project description Company confidential and proprietary information

Impacted transmission line Hyatt - West Millersport

Point A Hyatt Station

Point B West Millersport Station

Point C

Terrain description Terrain is gently rolling hills.

Existing Line Physical Characteristics

Operating voltage 345

Conductor size and type 1,414 kcmil 62/19 "Falbo" ACSR/PE

Hardware plan description It is assumed no hardware could be reused.

Tower line characteristics The condition of the existing line is assumed to be in good working order. Structure loading at

adjacent structures would remain unchanged.

Proposed Line Characteristics

Voltage (kV)	345.000000	345.000000
Summer (MVA)	Normal ratings 971.000000	Emergency ratings 1376.000000
Winter (MVA)	1234.000000	1585.000000

Designed

Conductor size and type unknown

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Operating

Shield wire size and type unknown

Rebuild line length 0.6 miles

Rebuild portion description Approximately 0.5-mile adjustment to 345kV alignment, located wholly within AEP-owned property,

to connect to the Corridor substation.

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 \$

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 \$4,850,301.00

Component cost (in-service year) \$5,459,055.00

Transmission Line Upgrade Component

Component title Kenny – Roberts 138 kV Upgrade

Project description Company confidential and proprietary information

Impacted transmission line Kenny - Roberts

Point A Kenny Station

Point B Roberts Station

Point C

Terrain description

Terrain along the Proposed Solution is flat in a residentially developed community in Upper

Arlington.

Designed

Existing Line Physical Characteristics

Operating voltage 138

Conductor size and type Unkown

Hardware plan description It is assumed no hardware could be reused.

Tower line characteristics N/A

Proposed Line Characteristics

Rebuild line length

 Voltage (kV)
 138.000000
 138.000000

 Normal ratings
 Emergency ratings

 Summer (MVA)
 285.000000
 311.000000

 Winter (MVA)
 285.000000
 318.000000

 Conductor size and type
 unknown

 Shield wire size and type
 unknown

3.5 miles

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Operating

Rebuild portion description

Construction responsibility

Benefits/Comments

Right of way

The incumbent portion of the Kenny – Roberts 138 kV line in western Columbus, Ohio, involves rebuilding the existing underground line predominantly within road right-of-way. The underground rebuild begins at the existing Kenny Substation, traveling south and west through North Star Road and Zollinger Road. From here, the underground rebuild travels through Griggs Reservoir Park and the Scioto River before transitioning to an overhead line just west of the river that continues to the existing Roberts Substation.

It is anticipated that the Proposed Solution would not require new ROW.

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 \$49,860,358.00

Component cost (in-service year) \$56,118,263.00

Substation Upgrade Component

Component title Corridor Substation Upgrade

Project description Company confidential and proprietary information

Substation name Corridor Station

Substation zone	AEP
Substation upgrade scope	Create two (2) new 345 kV line positions and cut-in the existing 345 kV Hyatt-West Millersport line by adding 3-345 kV CB's, a CB & a half string, 2-345 kV take-off towers, and other associated items.
Transformer Information	
None	
New equipment description	- 3-345kV, 5000A, 63kA CB's - 3-345kV, 3000A, 3-phase, motor-operated CB disc. sw 6-345kV line arresters - 6-345kV line CCVT's - 4-345kV, 3000A line traps - Install associated relay equipment in the existing control enclosure Necessary support structures for equipment
Substation assumptions	This proposal assumes that all necessary outages will be available, the existing AC, DC, & telecom systems will accommodate the new equipment, the existing control enclosure has space for the new relay equipment, ground grid resistivity test data are available, ground grid upgrades will not be needed, the existing cable trench has space for the new control cables, soil boring logs and geotechnical report are available, additional station stone will not be needed, and space will be available to install the equipment outlined in this description.
Real-estate description	All necessary land rights are acquired.
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 \$5,520,501.00

Component cost (in-service year)

\$6,213,371.00

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
2023W2-N2-ST3	I 243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST30) 243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	3 243458	05HYATT	246752	05VASSEL	1	345	205	Summer N-1-1	Included
2023W2-N2-ST3	2243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	1243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	3 243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	3243513	05GENOA	243537	05MALIS	2	138	205	Summer N-1-1	Included
2023W2-N2-ST2	5243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	3 243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	7243526	05HYATT	243537	05MALIS	2	138	205	Summer N-1-1	Included
2023W2-N2-ST29	9243513	05GENOA	243537	05MALIS	2	138	205	Summer N-1-1	Included
2023W2-N2-ST4) 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST42	2242939	05MARYSV	243458	05HYATT	1	345	205	Summer N-1-1	Included
2023W2-N2-ST4	I 243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	1243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	3 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	5243513	05GENOA	243537	05MALIS	2	138	205	Summer N-1-1	Included
2023W2-N2-ST3	1243513	05GENOA	243591	05SPRNGR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	7243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	3243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST3	9 243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	8 243458	05HYATT	246752	05VASSEL	1	345	205	Summer N-1-1	Included
2023W2-N1-WT1	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included
2023W2-N2-ST5	0243513	05GENOA	243591	05SPRNGR	1	138	205	Summer N-1-1	Included
2023W2-N1-WT3	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N1-WT2	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included
2023W2-N1-WT5	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included
2023W2-N1-WT	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N2-ST4	6243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	5 243513	05GENOA	243591	05SPRNGR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	8 243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	7 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	9 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N1-WT1	0290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N1-ST2	243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-N1-WT1	2290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N1-ST1	243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-N1-WT1	1290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N1-ST4	243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-N1-WT1	14290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N1-ST3	243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-N1-WT1	3290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Winter Basecase	Included
2023W2-N1-ST6	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-N2-WT2	243537	05MALIS	243538	05MALISX	ZB	138	205	Winter N-1-1	Included
2023W2-N1-ST5	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-N2-WT1	1 243513	05GENOA	243590	05WESTAR	1	138	205	Winter N-1-1	Included
2023W2-N1-WT7	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included
2023W2-N1-WT6	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N1-WT9	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included
2023W2-N1-WT8	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Winter Basecase	Included
2023W2-N1-ST1	1 290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-N2-WT7	243553	05POLARS	243590	05WESTAR	1	138	205	Winter N-1-1	Included
2023W2-N2-WT6	243537	05MALIS	243538	05MALISX	ZB	138	205	Winter N-1-1	Included
2023W2-N1-ST1	3 243537	05MALIS	243553	05POLARS	1	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST1	2290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-N2-WT8	243553	05POLARS	243590	05WESTAR	1	138	205	Winter N-1-1	Included
2023W2-N1-ST1	5243590	05WESTAR	243513	05GENOA	1	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST1	1243537	05MALIS	243553	05POLARS	1	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST1	7 243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-GD-W19	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Winter Gen Deliv	Included
2023W2-N1-ST1	3243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-GD-W15	4242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Winter Gen Deliv	Included
2023W2-GD-W15	6242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Winter Gen Deliv	Included
2023W2-N1-ST8	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-GD-S14	1243590	05WESTAR	243513	05GENOA	1	138	205	Summer Gen Deliv	Included
2023W2-N2-WT4	243513	05GENOA	243590	05WESTAR	1	138	205	Winter N-1-1	Included
2023W2-N1-ST7	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-N2-WT3	243537	05MALIS	243553	05POLARS	1	138	205	Winter N-1-1	Included
2023W2-N1-ST1	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-GD-S16	5243537	05MALIS	243553	05POLARS	1	138	205	Summer Gen Deliv	Included
2023W2-N1-ST9	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-N2-WT5	243537	05MALIS	243553	05POLARS	1	138	205	Winter N-1-1	Included
2023W2-GD-S18	6243590	05WESTAR	243513	05GENOA	1	138	205	Summer Gen Deliv	Included
2023W2-GD-S17	0242933	05RPMONE	246929	05MADDOX	1	345	205	Summer Gen Deliv	Included
2023W2-GD-W15	5242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Winter Gen Deliv	Included
2023W2-GD-W15	3242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Winter Gen Deliv	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N1-ST2	2243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST2	1 290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-N1-ST2	1242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-N1-ST2	3 243538	05MALISX	243537	05MALIS	ZB	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST2	3290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-N1-ST2	5242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-GD-S11	6243538	05MALISX	243537	05MALIS	ZB	138	205	Summer Gen Deliv	Included
2023W2-GD-W2	4243538	05MALISX	243537	05MALIS	ZB	138	205	Winter Gen Deliv	Included
2023W2-N1-ST2	7290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-GD-W2	3 242933	05RPMONE	246929	05MADDOX	1	345	205	Winter Gen Deliv	Included
2023W2-GD-W58	3 242933	05RPMONE	246929	05MADDOX	1	345	205	Winter Gen Deliv	Included
2023W2-N1-ST1	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-GD-W2	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Winter Gen Deliv	Included
2023W2-N1-ST1	3242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205/205	Summer Base Case	Included
2023W2-GD-W16	3 2 90237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Winter Gen Deliv	Included
2023W2-GD-W16	34290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Winter Gen Deliv	Included
2023W2-N1-ST2	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205/205	Summer Base Case	Included
2023W2-GD-W16	3290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Winter Gen Deliv	Included
2023W2-GD-W16	5290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Winter Gen Deliv	Included
2023W2-GD-S12	1242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Summer Gen Deliv	Included
2023W2-GD-S12	2242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Summer Gen Deliv	Included
2023W2-GD-S12	3242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Summer Gen Deliv	Included
2023W2-GD-S4	242926	05MALIS	290237	05MALIS 1EQ	1	765/999	205	Summer Gen Deliv	Included
2023W2-GD-S12	7290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Summer Gen Deliv	Included
2023W2-GD-S6	290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Summer Gen Deliv	Included
2023W2-GD-S12	6290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Summer Gen Deliv	Included
2023W2-N2-ST1	1 243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-GD-S12	5290237	05MALIS 1EQ	243538	05MALISX	1	999/138	205	Summer Gen Deliv	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST1	0 243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-GD-S11	4243538	05MALISX	243537	05MALIS	ZB	138	205	Summer Gen Deliv	Included
2023W2-N2-ST9	243513	05GENOA	243591	05SPRNGR	1	138	205	Summer N-1-1	Included
2023W2-GD-S11	5243538	05MALISX	243537	05MALIS	ZB	138	205	Summer Gen Deliv	Included
2023W2-N2-ST2	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-GD-W2	6 243538	05MALISX	243537	05MALIS	ZB	138	205	Winter Gen Deliv	Included
2023W2-GD-S3	243538	05MALISX	243537	05MALIS	ZB	138	205	Summer Gen Deliv	Included
2023W2-N2-ST1	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-GD-W2	7243538	05MALISX	243537	05MALIS	ZB	138	205	Winter Gen Deliv	Included
2023W2-N2-ST4	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-GD-W5	9 243538	05MALISX	243537	05MALIS	ZB	138	205	Winter Gen Deliv	Included
2023W2-N2-ST3	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-GD-W2	5243538	05MALISX	243537	05MALIS	ZB	138	205	Winter Gen Deliv	Included
2023W2-N2-ST6	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST5	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST8	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST7	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	0 243513	05GENOA	243537	05MALIS	2	138	205	Summer N-1-1	Included
2023W2-N2-ST2	2 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	1 243526	05HYATT	243537	05MALIS	2	138	205	Summer N-1-1	Included
2023W2-N2-ST1	3 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-GD-S13	35243537	05MALIS	243553	05POLARS	1	138	205	Summer Gen Deliv	Included
2023W2-N2-ST1	2 243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	5 243547	05MORSE	243591	05SPRNGR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	4243553	05POLARS	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	7243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	6243513	05GENOA	243591	05SPRNGR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	9 243547	05MORSE	243591	05SPRNGR	1	138	205	Summer N-1-1	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST1	8 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included

New Flowgates

Company confidential and proprietary information

Financial Information

Capital spend start date 10/2024

Construction start date 07/2026

Project Duration (In Months) 44

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. Jester Greenfield Station - Transource

2. Jester - Hayden 345 kV Greenfield Line - Transource

Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting No

ROW / land acquisition No

Materials & equipment No

Construction & commissioning No

Construction management No Overheads & miscellaneous costs No Taxes No **AFUDC** No Escalation No 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 No finds that a higher ROE would not be unreasonable?

Company confidential and proprietary information

Additional Comments

Is the proposer offering a Debt to Equity Ratio cap?

None