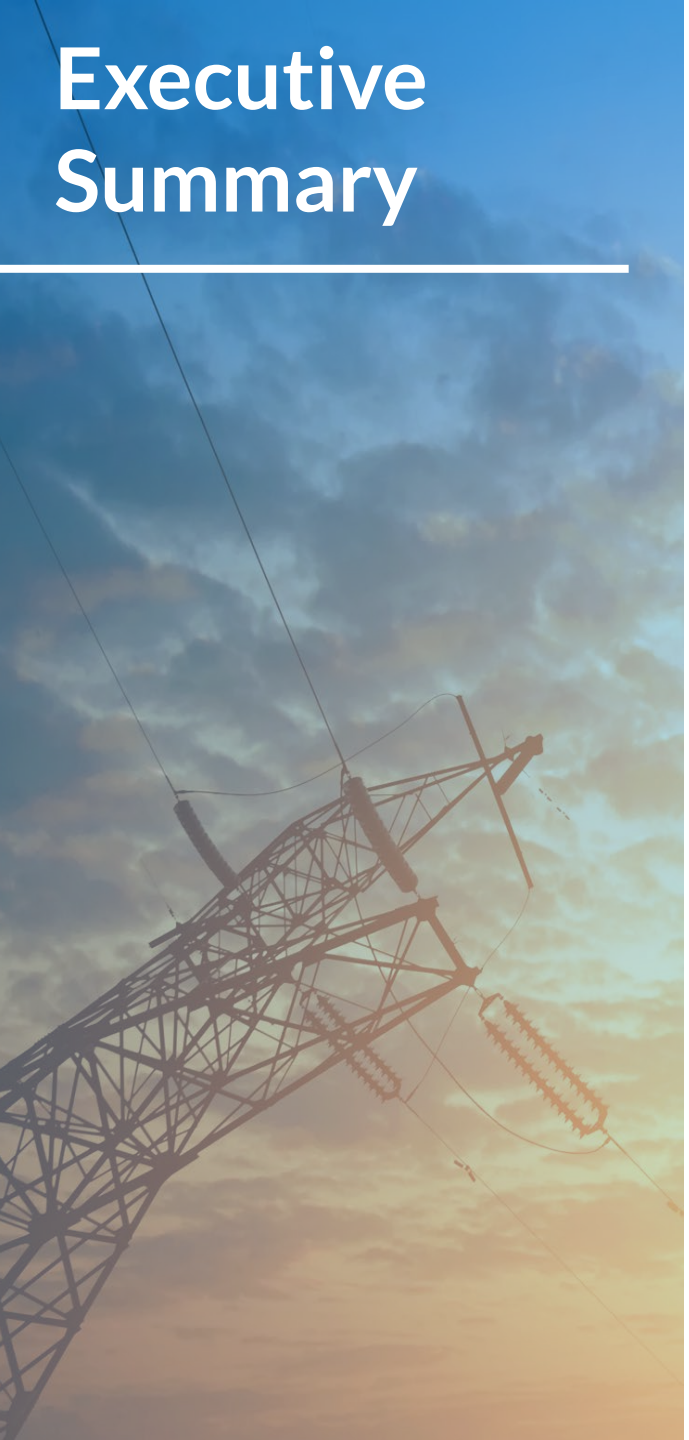
Expedited Project Review Results and Recommendation

Expedited Project Review Technical Study Task Force (EPR-TSTF)

January 6, 2026

Executive Summary

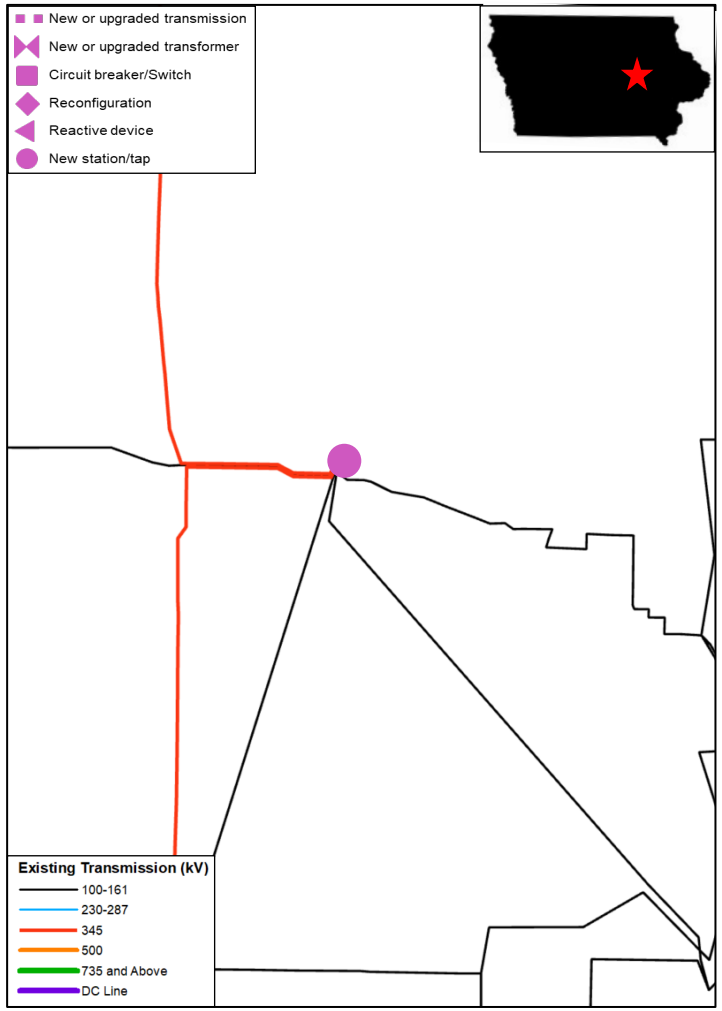


Review results and provide MISO's recommendation for EPRs which have completed mitigation discussions

- Twenty-two (22) EPRs have completed analysis and mitigation representing 3705 MW of new spot load and other reliability concerns
  - Central region representing 16 projects for review
  - West region representing 2 projects for review
  - South region representing 4 projects for review
- MISO recommends the projects move to MTEP26 Appendix A after the PAC comment period.

[ITCM] Linn County 620 MW Load Addition

ITCM: Linn County 620 MW Load Addition



Project #	50775
Project Name	Linn County 620 MW Load Addition
Project Type	Other, Load Growth
Project Description	Central Iowa Power Cooperative (CIPCO) on behalf of its member Linn County Rural Electric Cooperative (Linn County REC) has requested to interconnect a new 620 MW load that will be served from the Duane Arnold Energy Center (DAEC) 161 kV bus via four new radial 161 kV lines that will be owned and operated by CIPCO. To accommodate the requested load interconnection, ITC Midwest will expand the 161 kV bus at DAEC to provide 4 additional 161 kV bus positions.
System Need	To accommodate the requested load interconnection, 4 new 161 kV bus positions need to be added on the DAEC 161 kV bus to facilitate interconnection of the 4 new CIPCO radial 161 kV lines to the new load. No other upgrades were identified as being required to support the requested load interconnection.
Current Cost	$11.26 M
Expected ISD	07/01/2028
Target Appendix	A in MTEP26

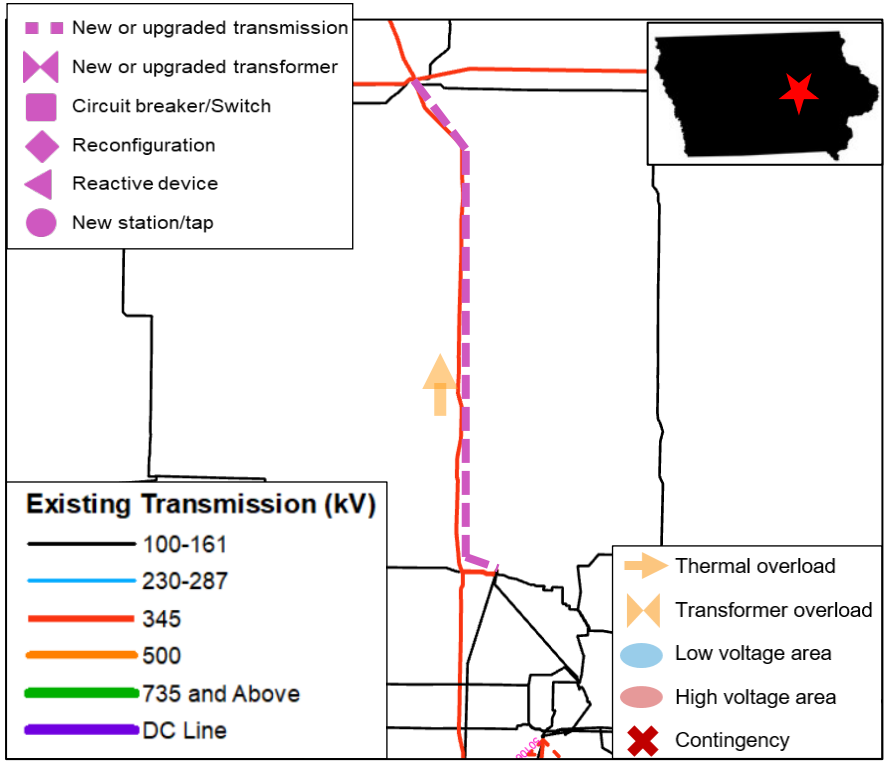
Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - One (1) additional CAP was required to mitigate observed issues

- MISO coordinated with impacted neighboring entities based on the analysis results
  - We appreciate the active coordination of the impacted parties as a part of this process

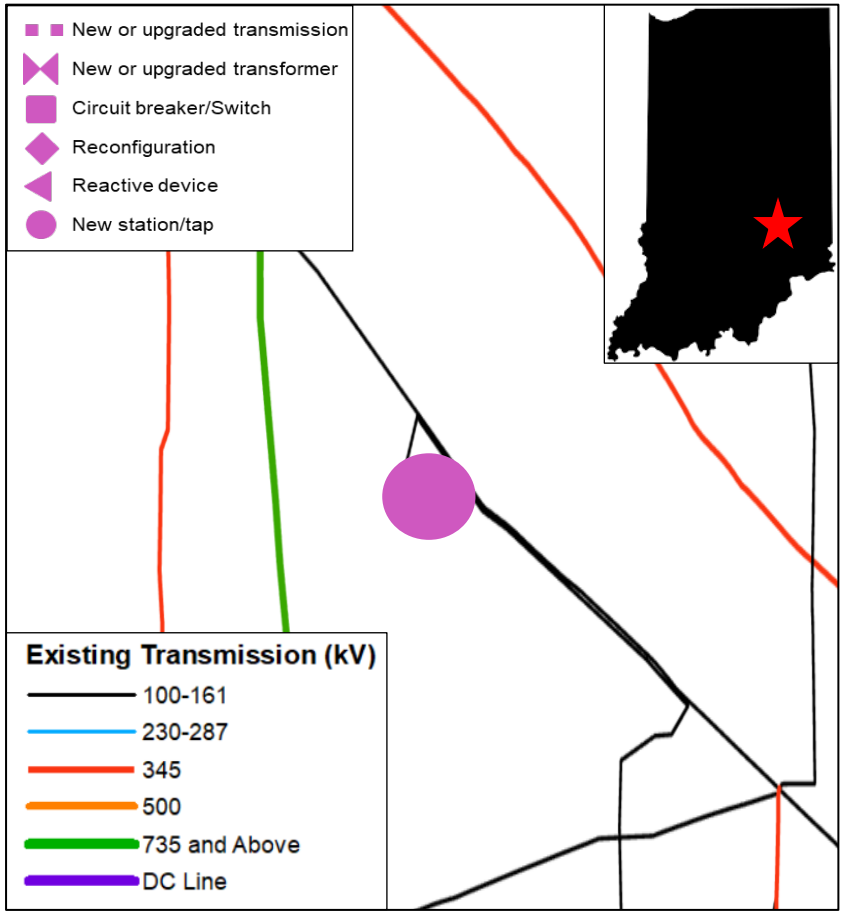
51174 Corrective Action Plan (CAP)
New MTEP26 BRP project



Project #	51174
Project Name	MidAmerican Energy Upgrades for MTEP 50775 Linn County 620 MW Load Addition
Project Type	BRP
Project Description	Transmission line structure replacements on MidAmerican's section of the Hazleton-Arnold 345 kV line to increase the line rating.
System Need	The project need is to address post-contingent overloads on the Hazleton-Arnold 345 kV line identified in MISO's EPR reliability analysis of MTEP 50775 Linn County 620 MW Load Addition.
Current Cost	$1.2M
Expected ISD	07/01/2028
Target Appendix	A in MTEP26

[HE] New Greensburg 138 kV Substation for New Load Addition

HE: New Greensburg 138 kV Load Addition



Project #	51051
Project Name	New Greensburg 138 kV Load Addition
Project Type	Other, Load Growth
Project Description	Construct a new 138 kV ring bus on the Decatur – Honda 138 kV line to serve a new large load. The new large load has a total estimated load of 50 MW.
System Need	A new large load has a total estimated load of 50 MW. To serve this, new 138 kV facilities are required.
Current Cost	$11.1 M
Expected ISD	07/01/2028
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

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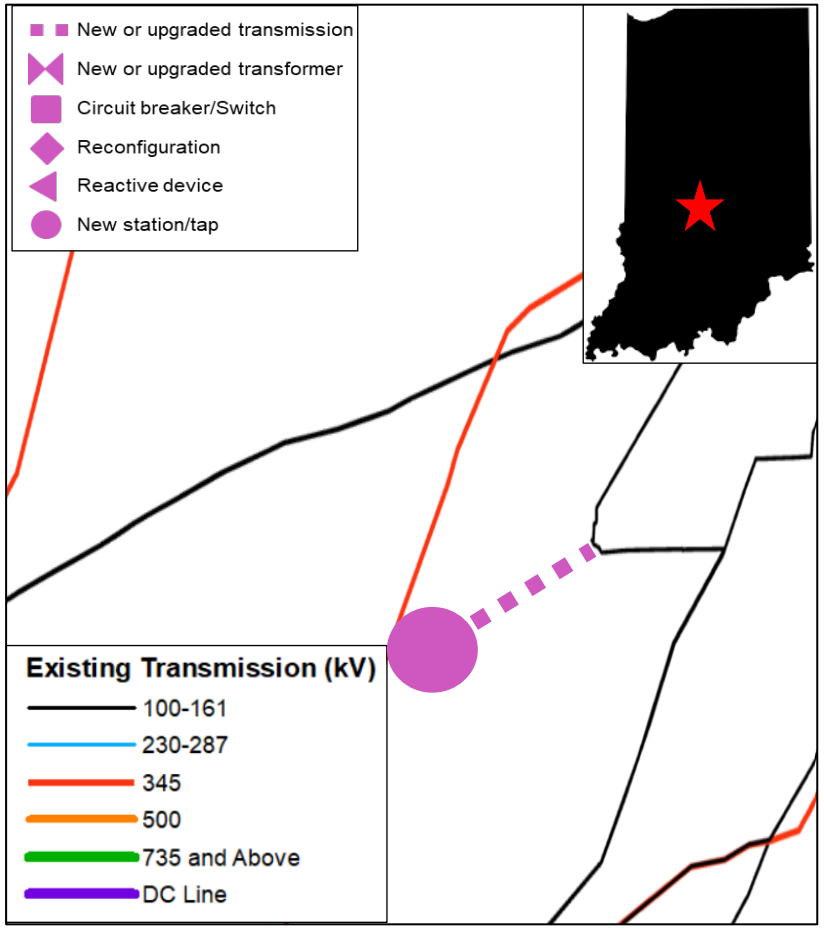
- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - Zero (0) new TPL violations or worsened reliability issues were identified

- No neighboring entities were impacted based on the analysis results.

[HE] New Morgan County 345/69 kV Transmission Station and 69 kV Line

HE: Morgan County 345/69 kV Station and 69 kV Line



Project #	51088
Project Name	New Morgan County 345/69 kV Transmission Station and 69 kV Line
Project Type	Other, Local Reliability
Project Description	Construct a new 345 kV ring bus station on the Thompson – Petersburg 345 kV line between Thompson and Antioch with a 69 kV low side station. Construct a new 3.65-mile 69 kV line from the new Morgan Co transmission station to HE Mooresville tap.
System Need	The Hoosier 69 kV system in Morgan County is currently served from four-way 69 kV switch between DEI Plainfield South and Centerton. Bringing in a new source from the 345 kV system will substantially improve the reliability of the area and reduce difficulty managing load growth.
Current Cost	$44.3 M
Expected ISD	12/01/2030
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

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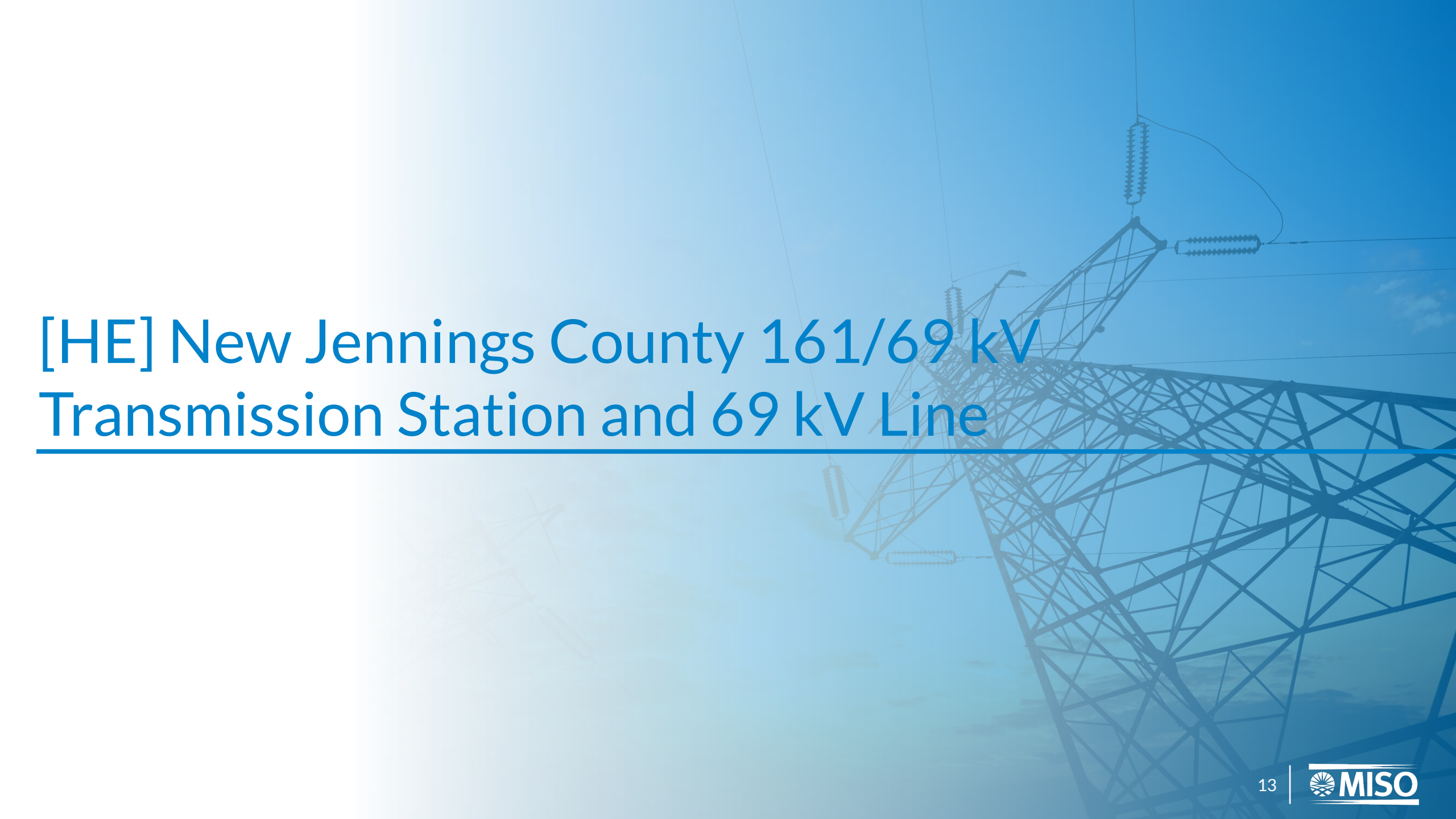
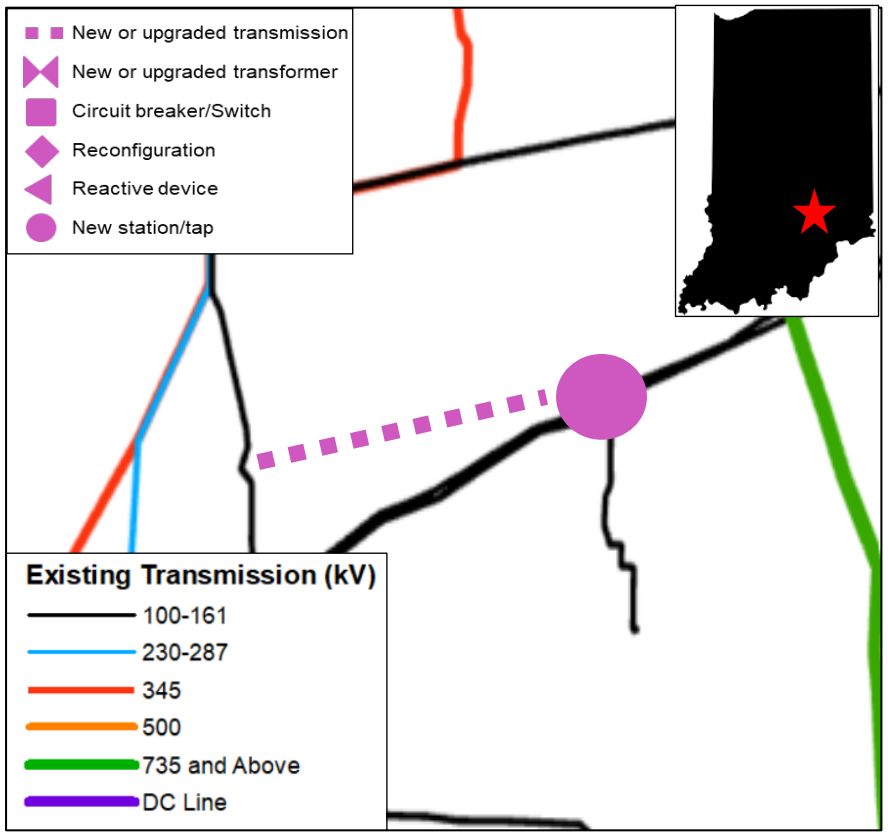
[HE] New Jennings County 161/69 kV Transmission Station and 69 kV Line



HE: Jennings County 161/69 kV Station and 69 kV Line



Project #	51089
Project Name	New Jennings County 161/69 kV Transmission Station and 69 kV Line
Project Type	Other, Local Reliability
Project Description	Construct a new 161 kV ring bus on the Lawrence – Napoleon 161 kV line near Selmier Junction and a 69 kV low side ring bus. Construct new 17.9-mile 69 kV line from Jennings 69 kV station to Waynesville 69 kV station.
System Need	The industrial loads currently served by Selmier station cannot be effectively supported from the existing 69 kV system when the 161 kV system is unavailable. Constructing a new ring bus at this location will improve the reliability of the area and allow the existing 69 kV system to be reinforced.
Current Cost	$56.9 M
Expected ISD	12/01/2028
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

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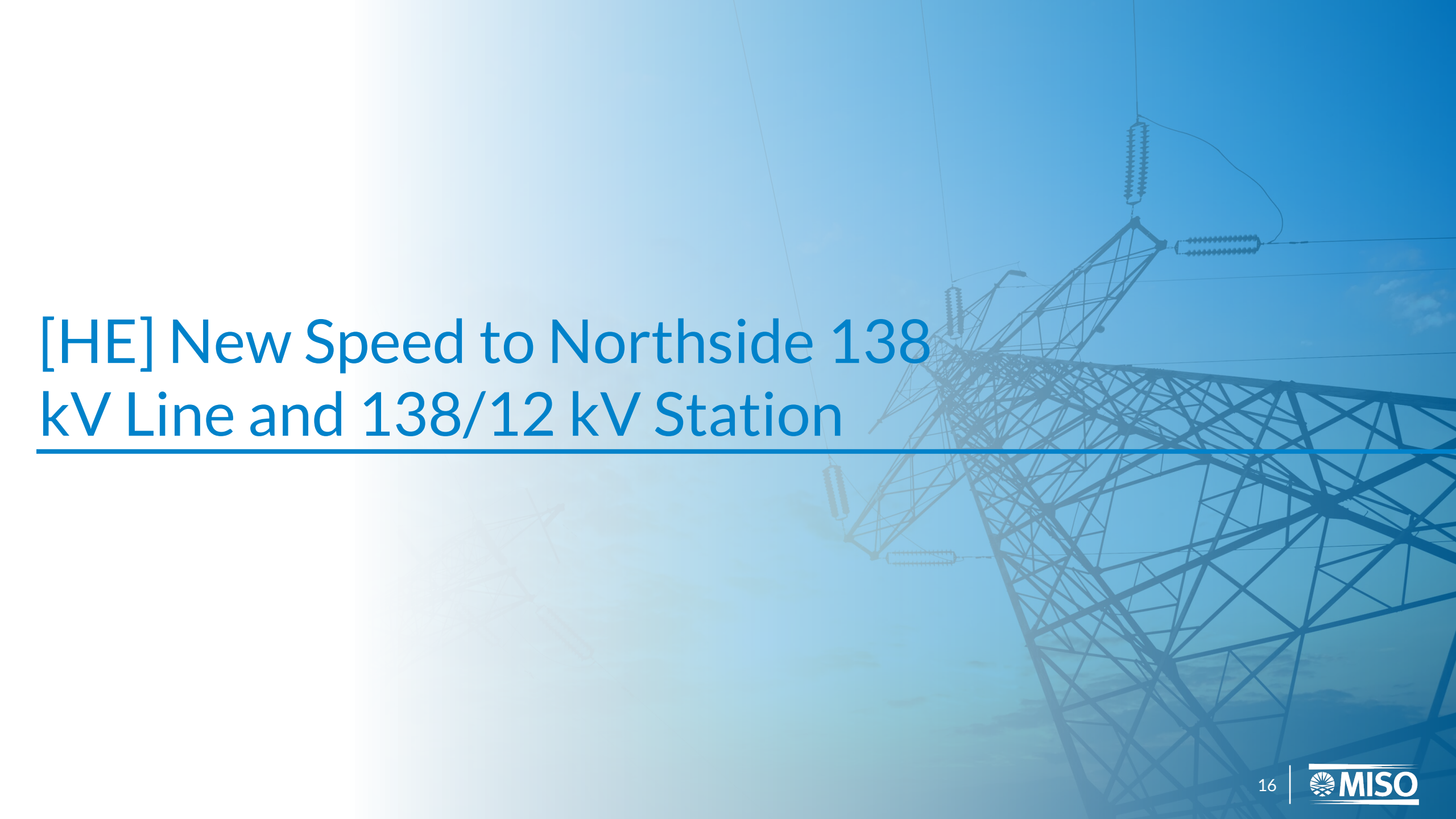
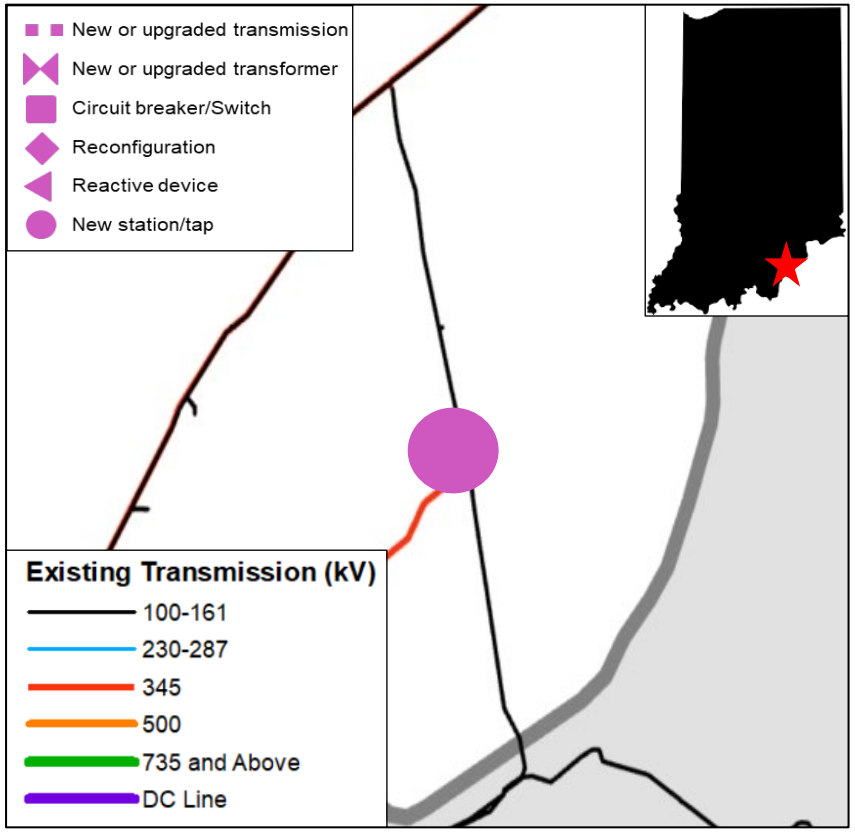
[HE] New Speed to Northside 138 kV Line and 138/12 kV Station



HE: Speed to Northside 138 kV Line and 138/12 kV Station



Project #	51090
Project Name	New Speed to Northside 138 kV Line and 138/12 kV Station
Project Type	Other, Load Growth
Project Description	Construct a new 9-mile 138 kV line from WVPA Speed 138 kV station to LGEE Northside 138 kV station. Construct a new 138/12 kV distribution station along the line to serve 15 MW new industrial load.
System Need	The combination of a new load request and existing constraints serving distribution customers along I-65 in Clark Co requires a new distribution station. The nearest transmission lines are blocked by the Clark Co Airport. New transmission needs to be brought into the area to serve the load.
Current Cost	$27.2 M
Expected ISD	3/1/2028
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

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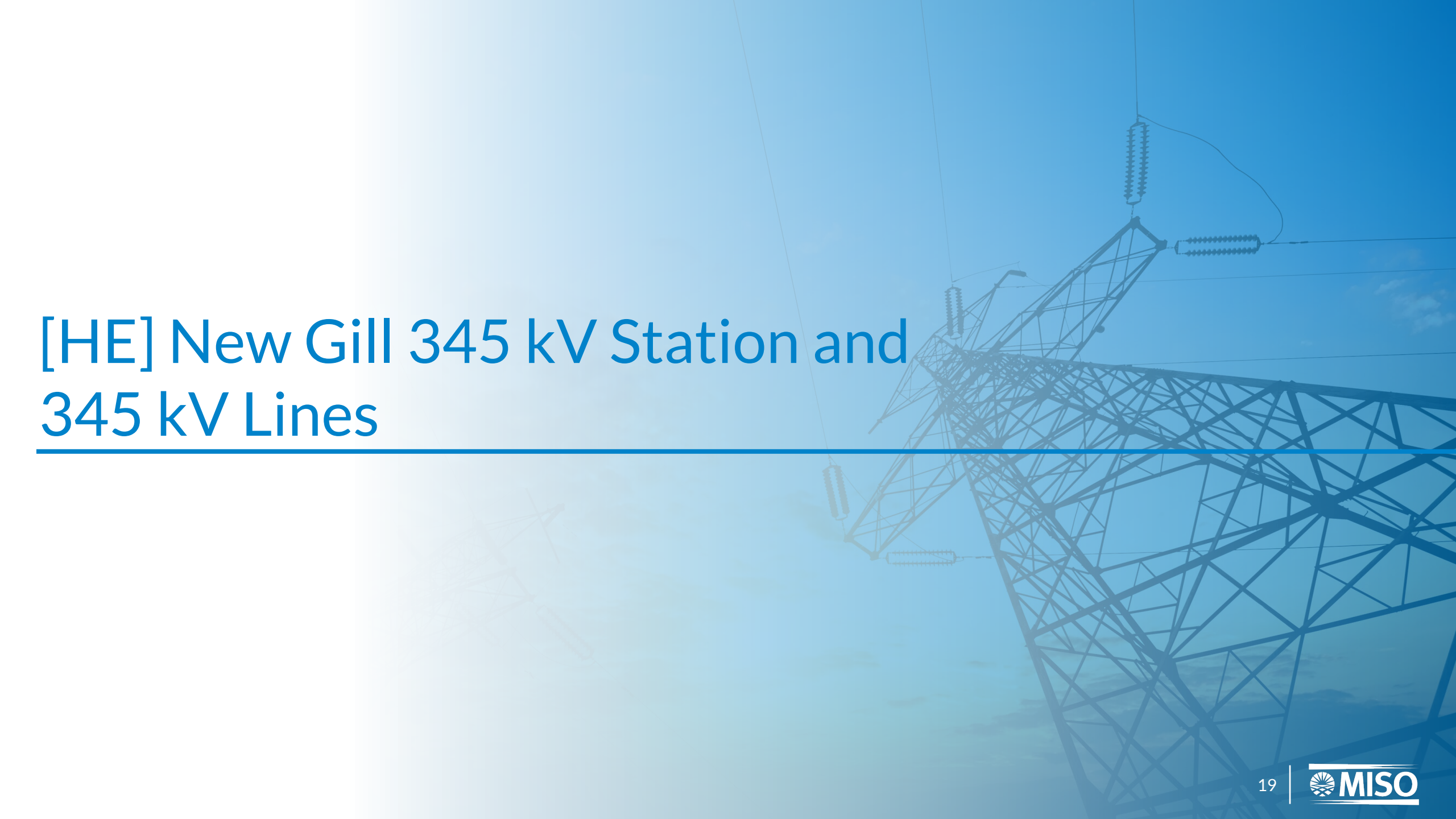
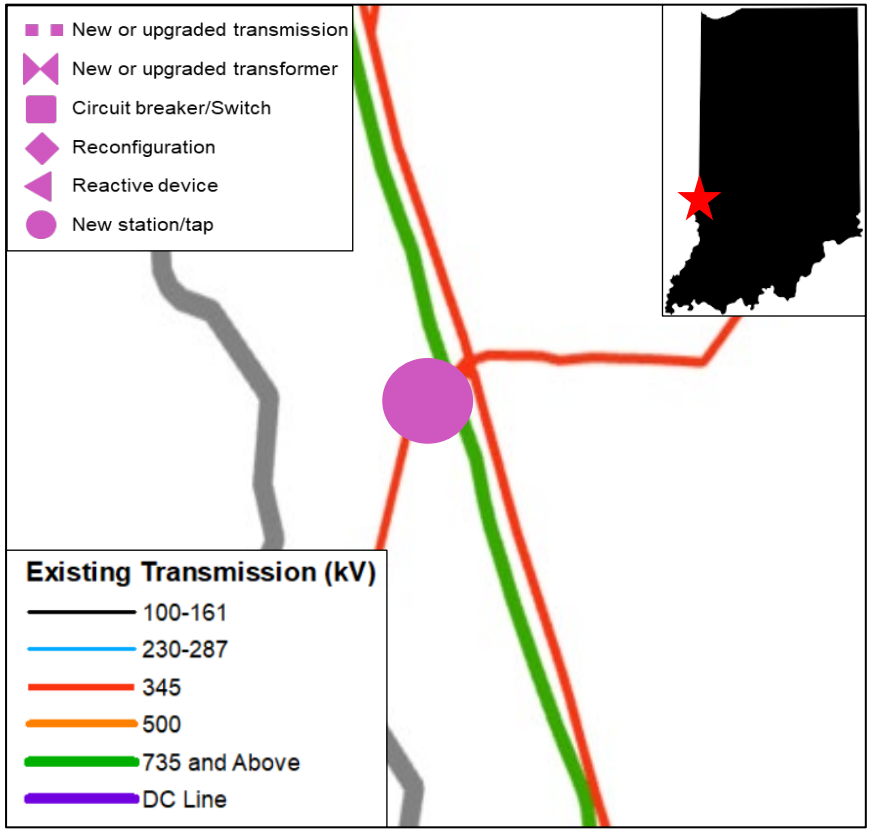
- No neighboring entities were impacted based on the analysis results.

[HE] New Gill 345 kV Station and 345 kV Lines



HE: New Gill 345kV Station and 345kV Lines



Project #	51093
Project Name	New Gill 345 kV Station and 345 kV Lines
Project Type	Other, Load Growth
Project Description	Approximately 1 mile south of Merom station, expand the Merom 345kV straight bus station into a 345 kV breaker-and-a-half station, located in Sullivan County, IN.
System Need	To serve expanding data center load up to and additional 960 MW.
Current Cost	$75.3 M
Expected ISD	01/01/2028
Target Appendix	A in MTEP26

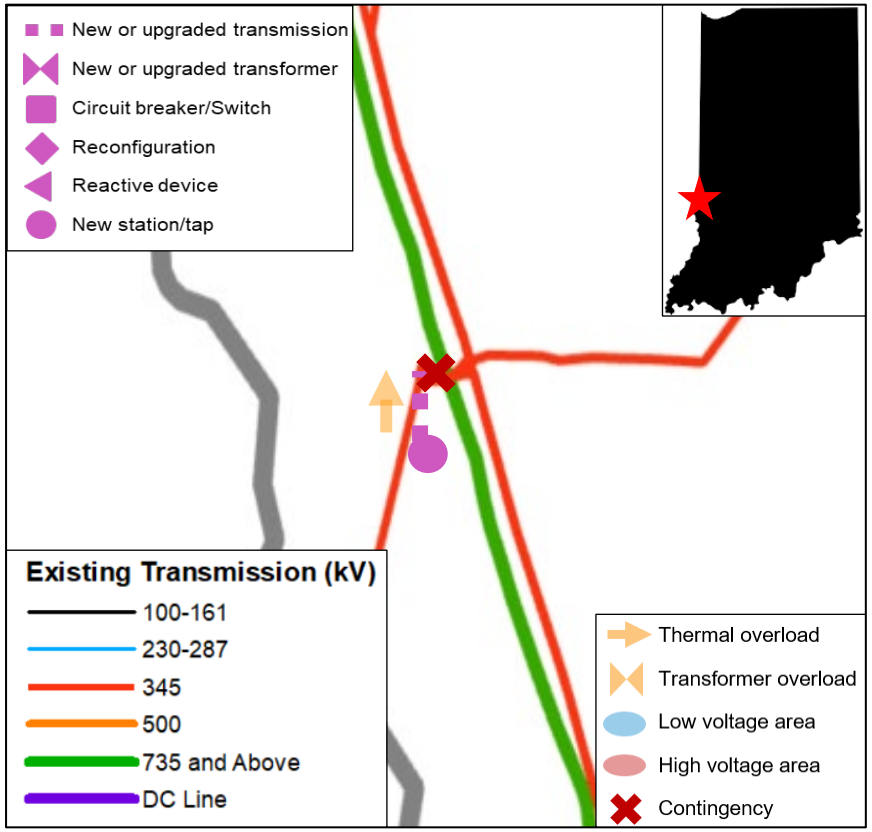
Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - One (1) additional CAP was required to mitigate observed issues

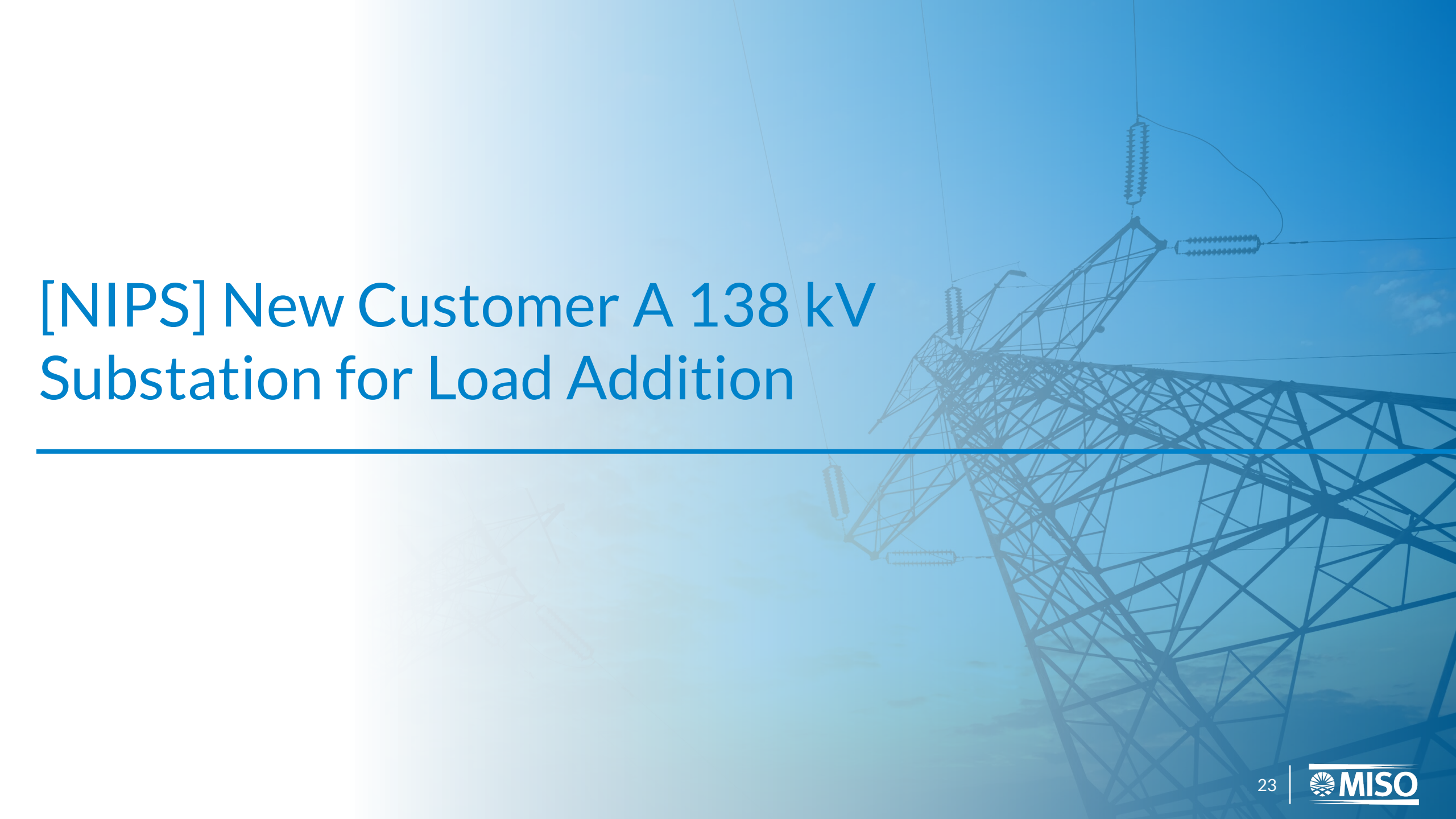
- MISO coordinated with impacted neighboring entities based on the analysis results
  - We appreciate the active coordination of the impacted parties as a part of this process

50193 Corrective Action Plan (CAP)
New MTEP26 BRP project

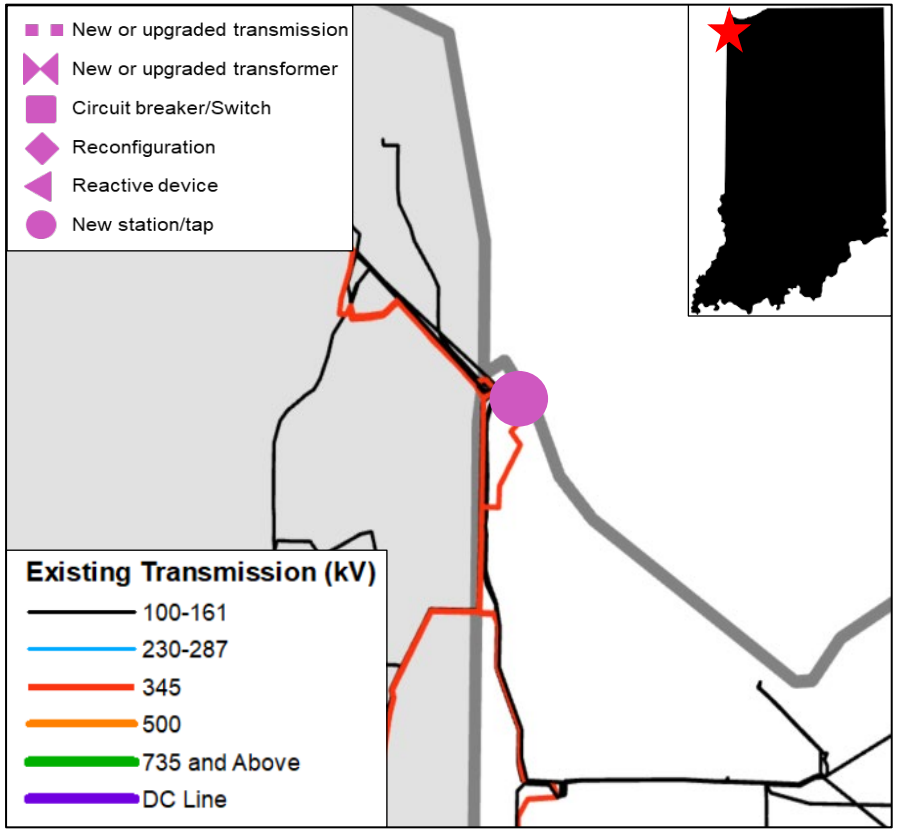


Project #	51152
Project Name	New Merom to Gill 345 KV Line addition
Project Type	BRP
Project Description	Construct an additional circuit between Merom 345 kV station and Gill 345 kV station.
System Need	Mitigation for thermal overload of the existing Merom - Gill 345 kV circuits due to P6 scenarios in the EPR analysis.
Current Cost	$2 M
Expected ISD	01/01/2028
Target Appendix	A in MTEP26

[NIPS] New Customer A 138 kV Substation for Load Addition



NIPSCO: Customer A 138 kV Substation for Load Addition



Project #	51092
Project Name	New Customer A 138 kV Substation for Load Addition
Project Type	Other, Load Growth
Project Description	260 MW load is being looped into Wolf Lake to Stateline B (NIPSCO-ComEd).
System Need	To serve the new load addition with expedited lead time required to be 2-3 years.
Current Cost	$25 M
Expected ISD	12/31/2027
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - One (1) additional CAP was required to mitigate observed issues

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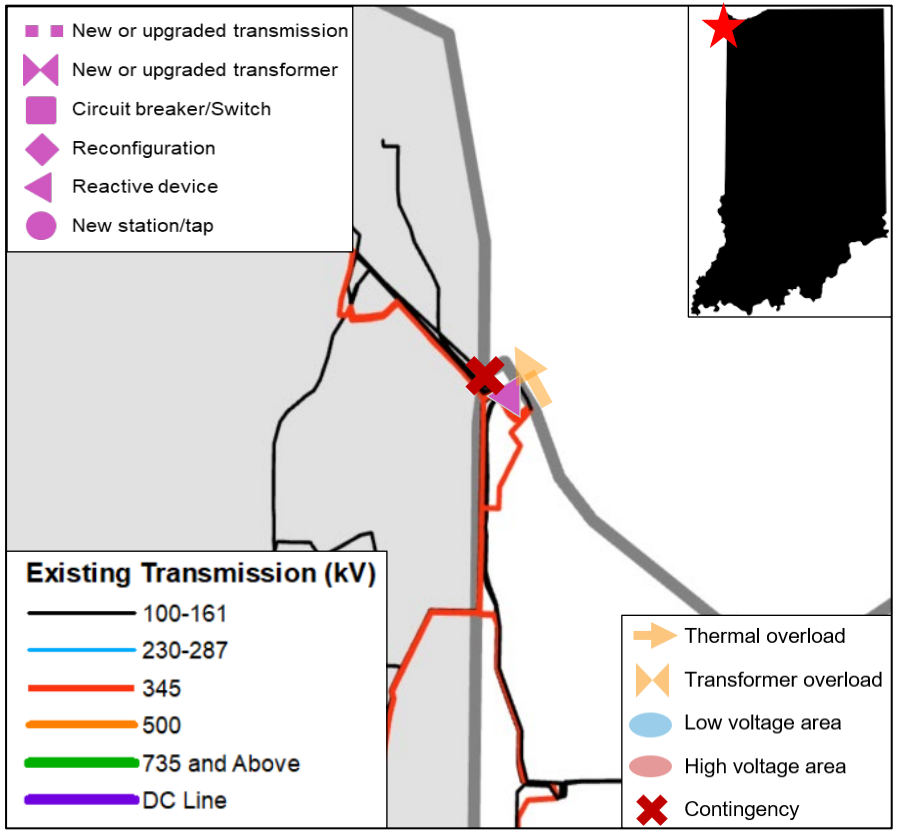
  - We appreciate the active coordination of the impacted parties as a part of this process

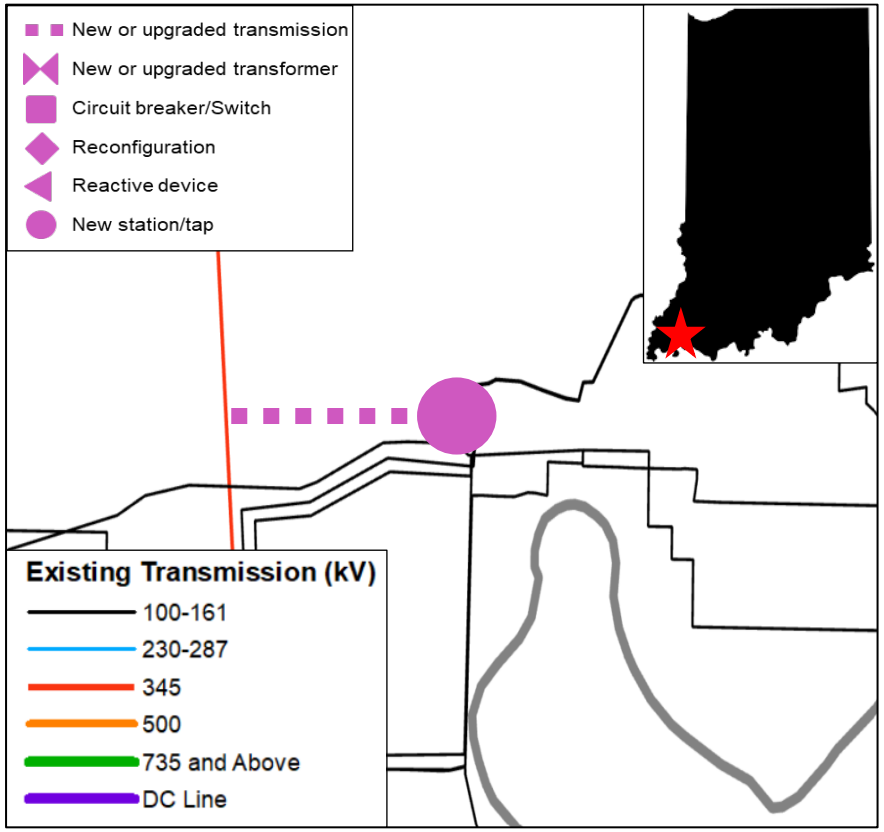
51092 Corrective Action Plan (CAP)
New MTEP26 BRP project



Project #	51124
Project Name	Sheffield Substation Battery and Trip Coil Monitoring
Project Type	BRP
Project Description	Project to add monitoring to NIPSCO Sheffield 138kV substation.
System Need	P5 thermal observations.
Current Cost	$25 K
Expected ISD	12/31/2027
Target Appendix	A in MTEP26

[SIGE] New Project Raider 345 kV Substation for New Load Addition

SIGE: Project Raider 345 kV Substation for Load Addition



Project #	51079
Project Name	New Project Raider Load 345 kV Substation
Project Type	Other, Load Growth
Project Description	Construct a new 345 kV breaker-and-a-half substation to serve a 600 MW load addition on the POSEY – GIBSON 345 kV line. The new station will be approximately 8 line-miles from the Posey substation.
System Need	A new customer has plans to construct a facility within SIGE's service territory along the Posey-Gibson line.
Current Cost	$29.9 M
Expected ISD	06/01/2027
Target Appendix	A in MTEP26

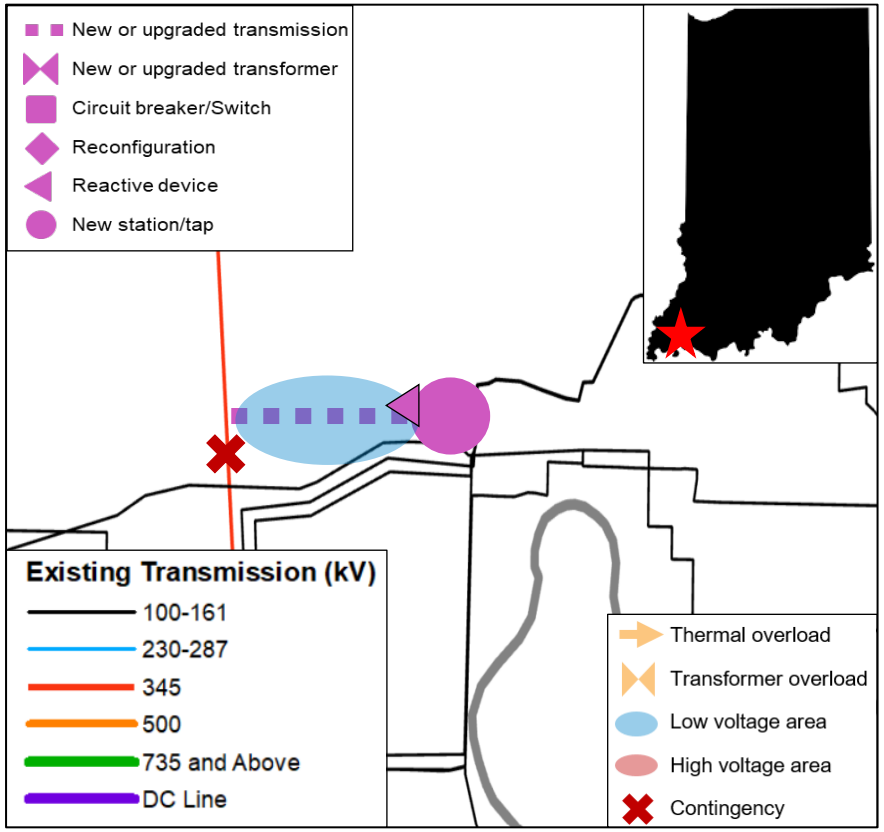
Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - One (1) additional CAP was required to mitigate observed issues

- MISO coordinated with impacted neighboring entities based on the analysis results
  - We appreciate the active coordination of the impacted parties as a part of this process

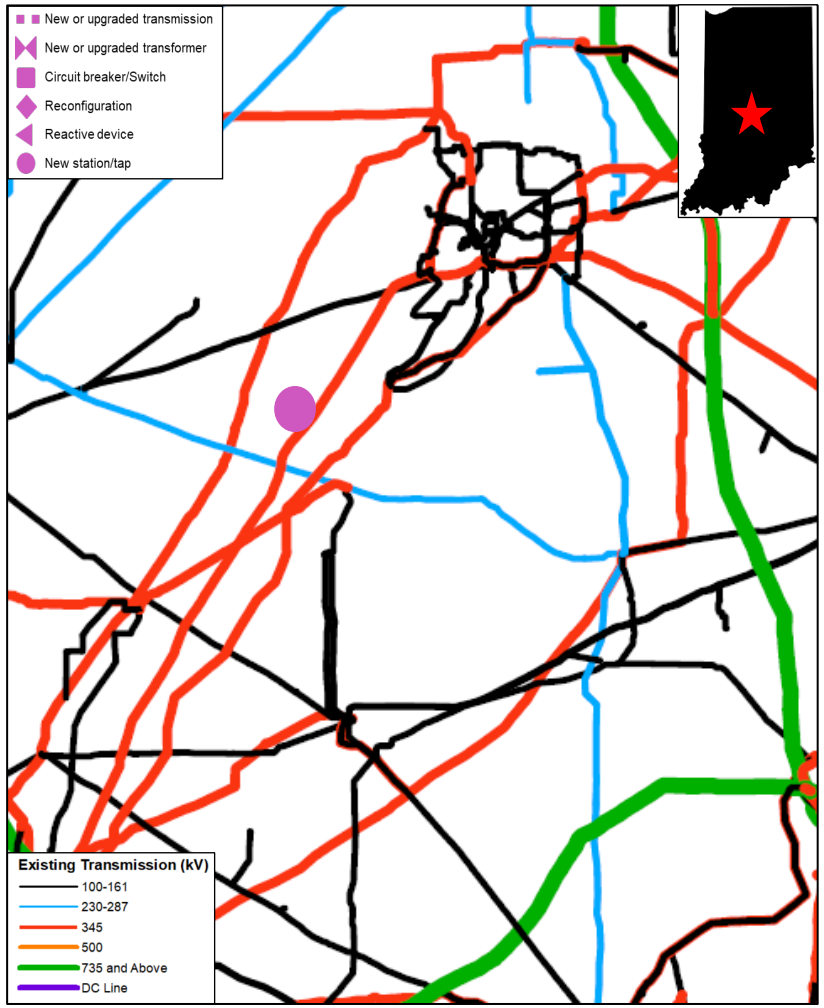
51079 Corrective Action Plan (CAP)
New MTEP26 BRP project



Project #	51149
Project Name	New Project Raider Cap Banks 69 kV
Project Type	BRP
Project Description	Adding 62.4 MVAR of cap banks at Culley 69 kV, 2 15.6 MVAR cap banks at Leonard 69 kV and 2 15.6 MVAR cap banks at Northwest 69 kV.
System Need	P6 low voltage observations.
Current Cost	$5.1 M
Expected ISD	06/01/2027
Target Appendix	A in MTEP26

[IPL] New Antioch 345 kV Station and Load 1.2 GW Load Addition

IPL: New Antioch 345 kV Station and Load



Project #	50700
Project Name	New Antioch 345 kV Station and Load
Project Type	Other, Load Growth
Project Description	Construct a new 345 kV breaker-and-a-half substation on the [IPL] Thompson - [IPL] Petersburg 345 kV transmission line approximately 11 line-miles south of the IPL Thompson Substation. New customer will have distributed load off of 345 kV lines from new substation.
System Need	A new customer has plans to construct a facility within Indianapolis Power & Light's service territory, adjacent to the 345 kV Thompson-Petersburg transmission line.
Current Cost	$68.8 M
Expected ISD	11/1/2027
Target Appendix	A in MTEP26

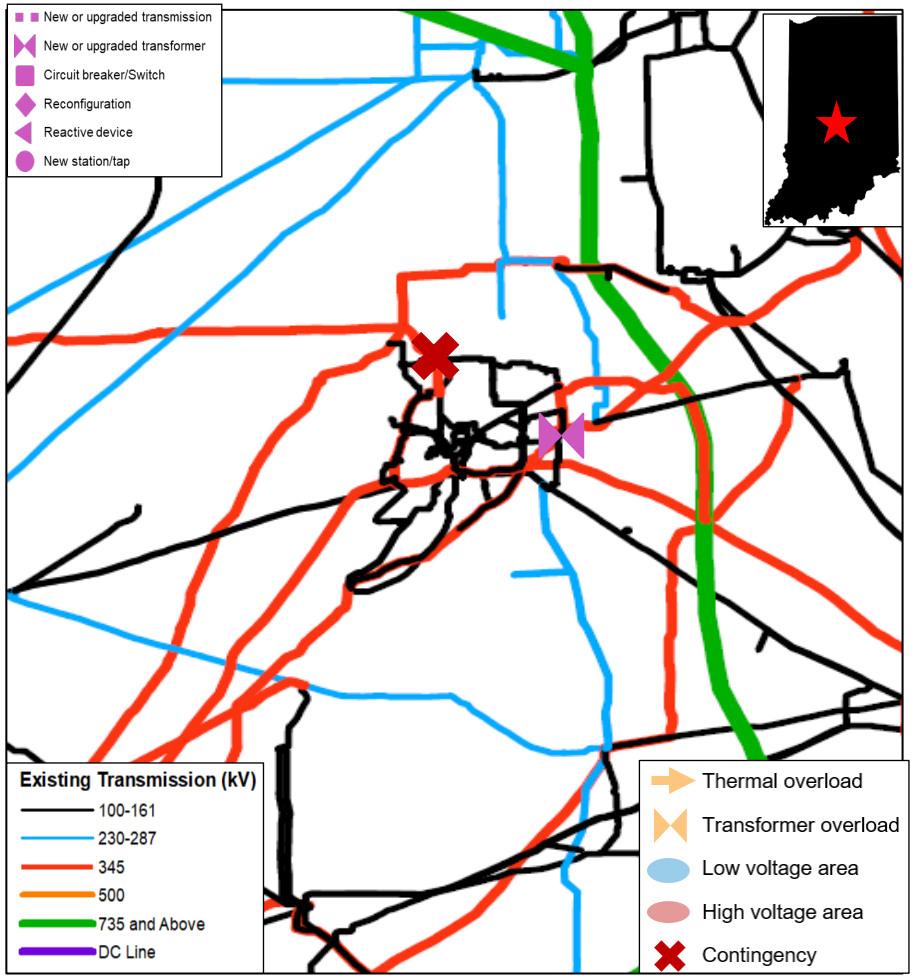
Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - Five (5) additional CAP was required to mitigate observed issues

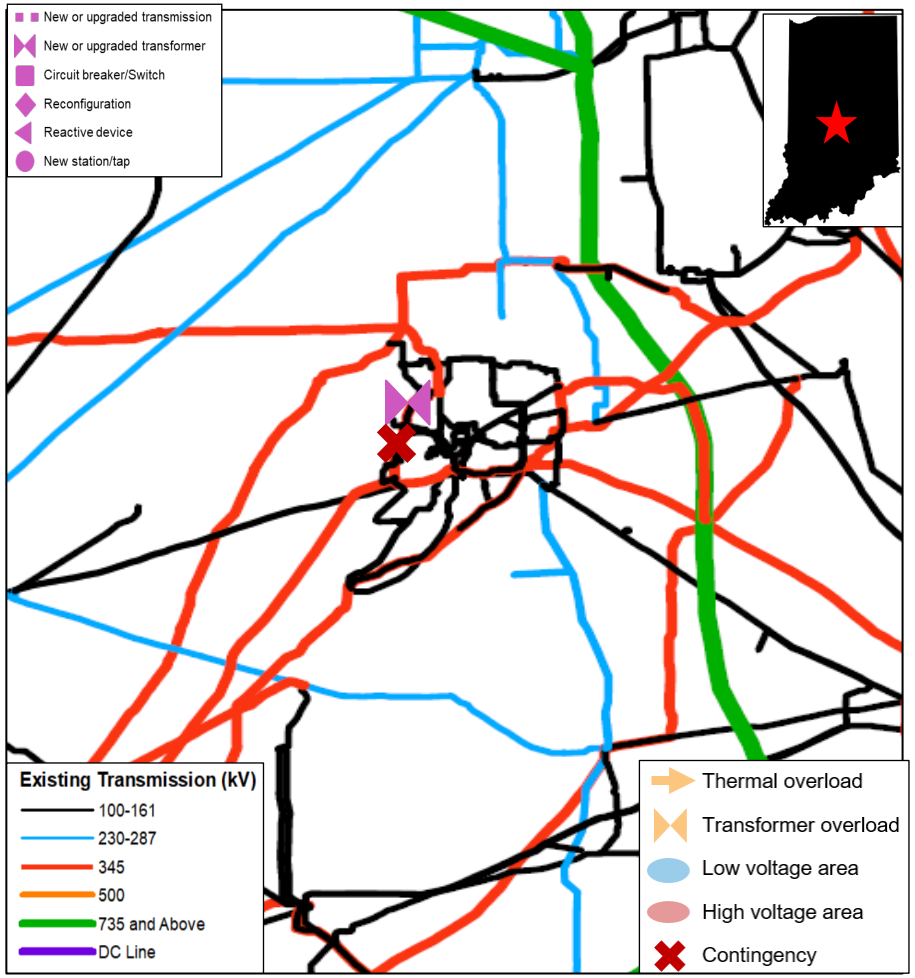
- MISO coordinated with impacted neighboring entities based on the analysis results
  - We appreciate the active coordination of the impacted parties as a part of this process

50768 Corrective Action Plan (CAP)
New MTEP26 BRP project



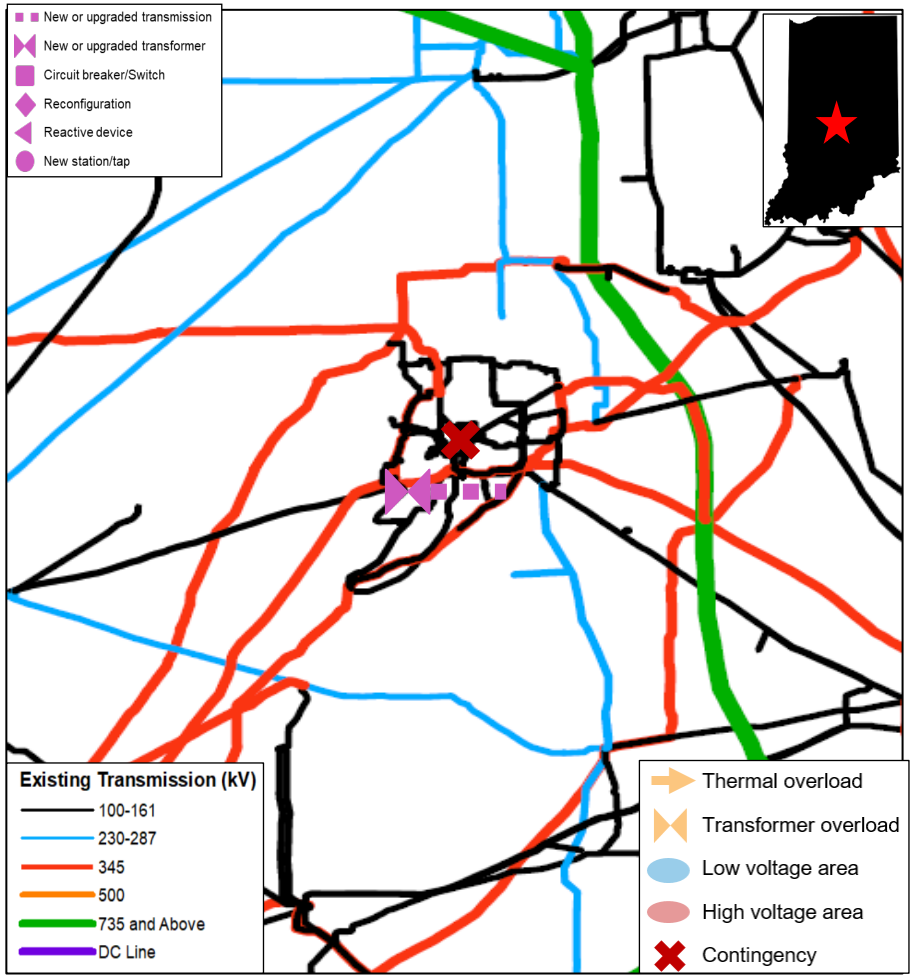
Project #	50768
Project Name	Uprate Sunnyside Autotransformer
Project Type	BRP
Project Description	Due to FAC-008 Facility Rating Methodology, Sunnyside Autotransformer was derated to SN/SE 478 MVA. This project contains the scope necessary to return Sunnyside Autotransformer to SN 500 MVA, SE 600 MVA - allows use of operational guide 2008-S-011-C-IPL-Auto_Transformers-345_138rev1.
System Need	IPL Antioch and Whispering Pines EPR N-1 thermally overloaded the facility rated at 478 MVA, no greater than 575 MVA with contingency 'P71:345-345:IPL:08-16WHISPINES:16SUNNYS:345:1-16WHISPINES:08GWYNN:345'.
Current Cost	$2.0 M
Expected ISD	12/31/2029
Target Appendix	A in MTEP26

50789 Corrective Action Plan (CAP)
New MTEP26 BRP project



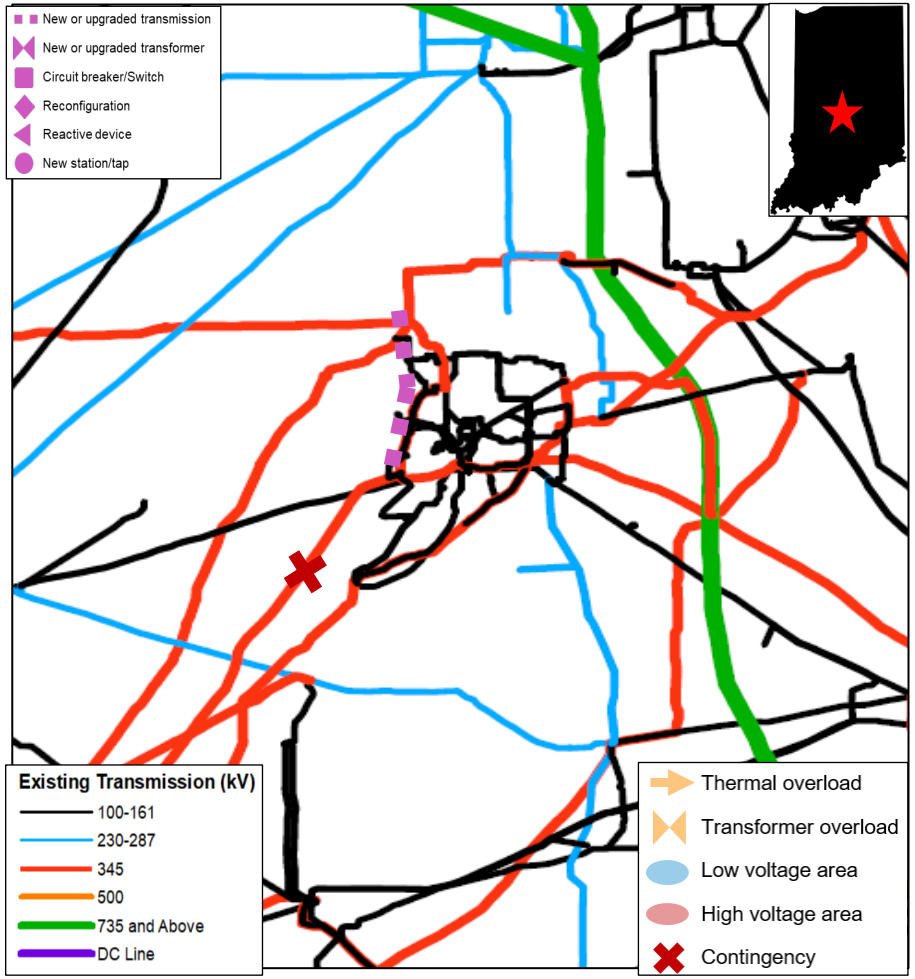
Project #	50789
Project Name	Replace Guion South Autotransformer
Project Type	BRP
Project Description	Guion South autotransformer has failed asset management tests and was removed from operational service. This project replaces the autotransformer to restore to service.
System Need	MTEP26 EPR results indicate overloading on autotransformer.
Current Cost	$11.7 M
Expected ISD	12/31/2027
Target Appendix	A in MTEP26

50790 Corrective Action Plan (CAP)
New MTEP26 BRP project



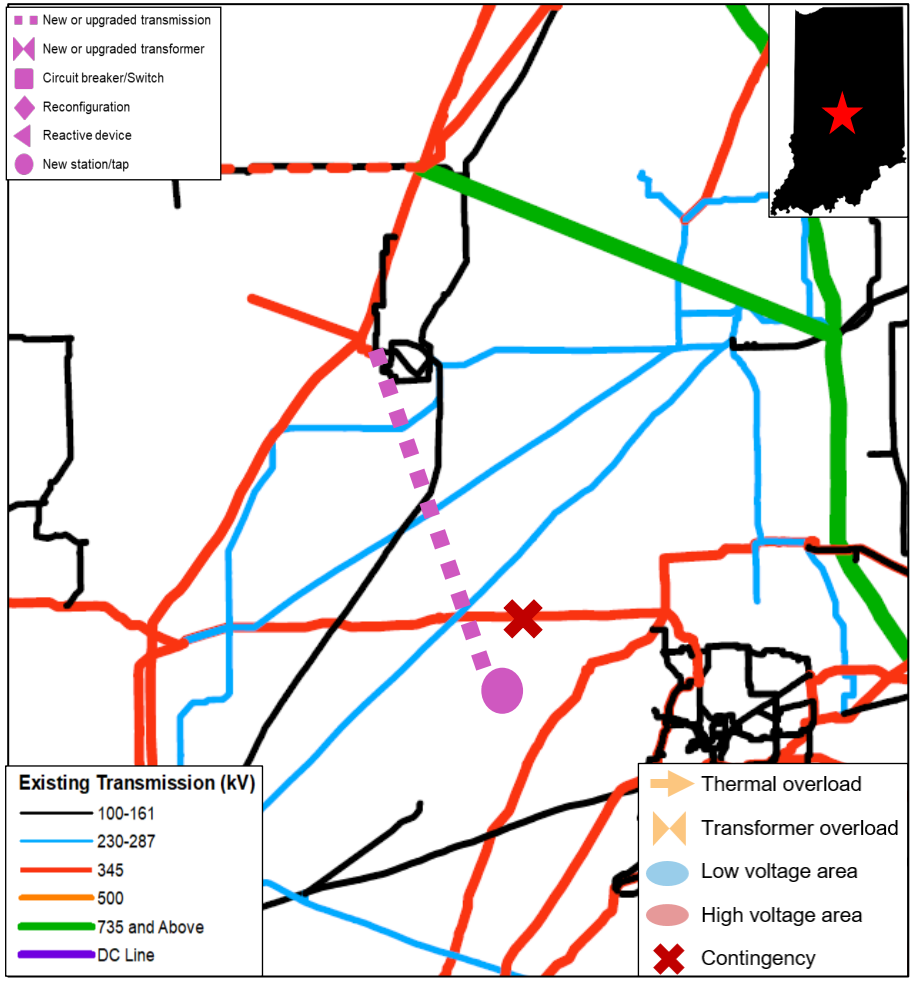
Project #	50790
Project Name	Expand Blue Bluff 138 kV switchyard
Project Type	BRP
Project Description	Expand currently planned 345 kV switchyard near Eagle Valley Power Plant to include a 138 kV yard and interconnection local 138 kV transmission
System Need	IPL EPR TPL mitigations
Current Cost	$30.3 M
Expected ISD	3/31/2030
Target Appendix	A in MTEP26

50795 Corrective Action Plan (CAP)
New MTEP26 BRP project



Project #	50795
Project Name	Uprate Guion - Whitestown 345-09
Project Type	BRP
Project Description	Replace IPL equipment at Guion and Whitestown to achieve a 1526 MVA winter rating
System Need	IPL EPR Antioch and Whispering Pines
Current Cost	$15.0 M
Expected ISD	12/31/2029
Target Appendix	A in MTEP26

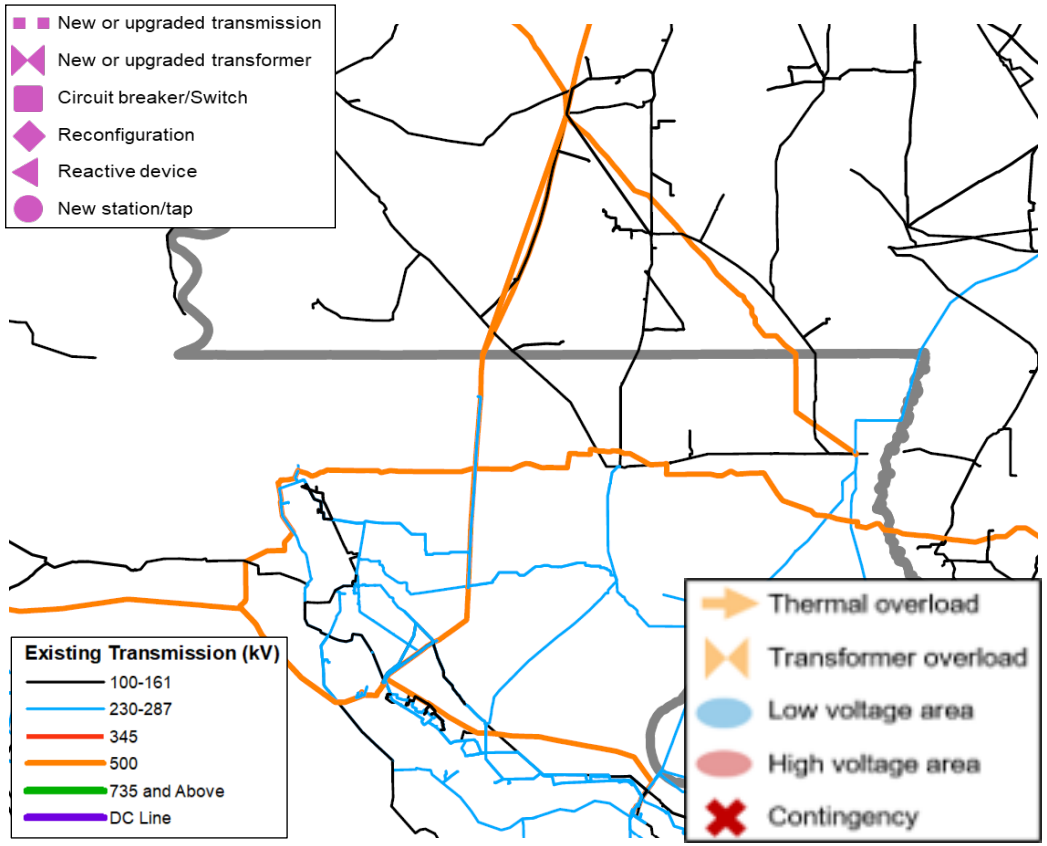
51103 Corrective Action Plan (CAP)
New MTEP26 BRP project



Project #	51103
Project Name	New Westwood-LEAP-Hortonville 345kV Line
Project Type	BRP
Project Description	Construct new ~55mi double circuited 345kV line from Westwood to new Mechanicsburg station to Hortonville at 954 ACSS @ 200C or 4000A equivalent conductor for a rating of 2432MVA per line. Tying additional new ~10mi of double circuited 345kV line from new Mechanicsburg substation into LEAP.
System Need	This project is driven by recent EPR submissions and replacement for several associated rebuilds that would be required otherwise
Current Cost	$250.3 M
Expected ISD	6/1/2029
Target Appendix	A in MTEP26

[LAGT] ANGIE 230/69KV SUBSTATION - 230KV LINE BREAKER ADDITIONS

LAGT: ANGIE 230/69KV SUBSTATION - 230KV LINE BREAKER ADDITIONS



Project #	51063
Project Name	ANGIE 230/69KV SUBSTATION - 230KV LINE BREAKER ADDITIONS
Project Type	Other, Local Reliability
Project Description	ADD 230KV LINE BREAKERS AND ASSOCIATED EQUIPMENT TO THE EXISTING 1803 ANGIE 230/69KV SUBSTATION
System Need	INCREASE RELIABILITY OF THE ANGIE DELIVERY POINT BY ADDING ADDITIONAL INTERRUPTING DEVICES
Current Cost	$1.9M
Expected ISD	12/31/2027
Target Appendix	A in MTEP26

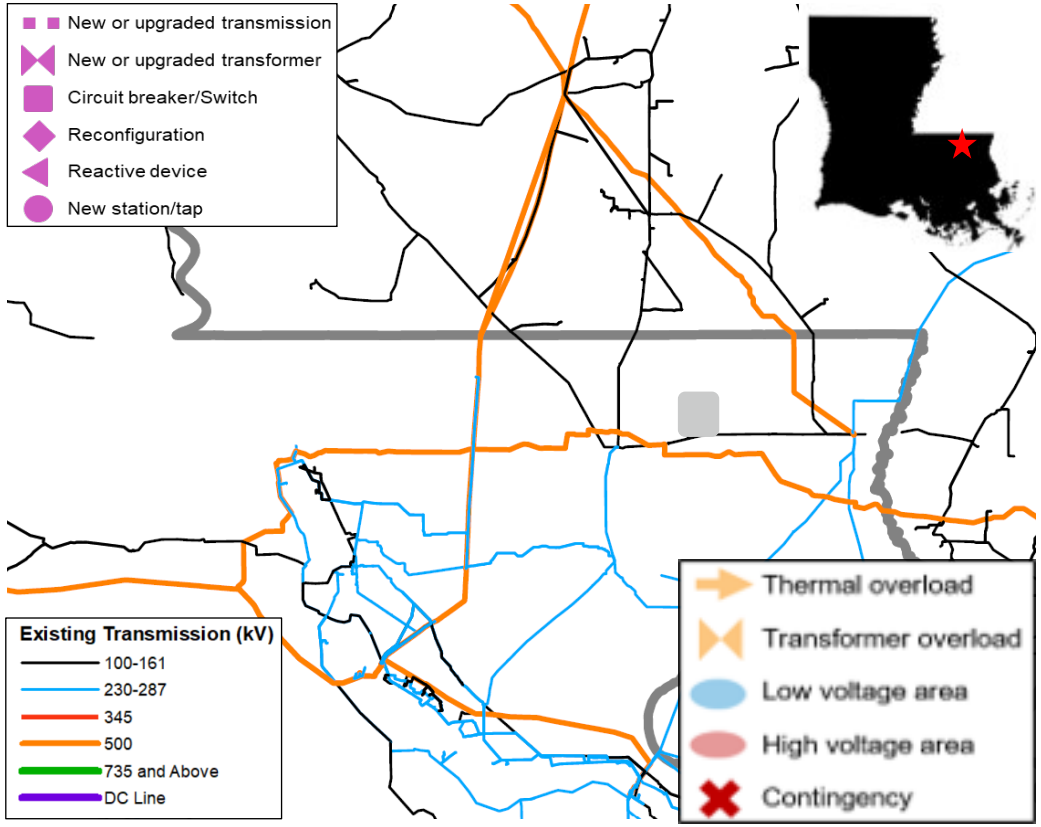
Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - No impact to the system was found

[LAGT] HOLTON 115/69KV SUBSTATION - 115KV LINE BREAKER AND 69KV BUS TIE BREAKER ADDITIONS

LAGT: HOLTON 115/69KV SUBSTATION - 115KV LINE BREAKER AND 69KV BUS TIE BREAKER ADDITIONS



Project #	51064
Project Name	HOLTON 115/69KV SUBSTATION - 115KV LINE BREAKER AND 69KV BUS TIE BREAKER ADDITIONS
Project Type	Other, Local Reliability
Project Description	ADD 115KV LINE BREAKERS, A 69KV BUS TIE BREAKER, AND ASSOCIATED EQUIPMENT TO THE EXISTING 1803 HOLTON 115/69KV SUBSTATION
System Need	INCREASE RELIABILITY OF THE HOLTON DELIVERY POINT BY ADDING ADDITIONAL INTERRUPTING DEVICES.
Current Cost	$2.9M
Expected ISD	6/1/2028
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - No impact to the system was found

[LAGT] TALISHEEK 230KV LINE BREAKER ADDITIONS AND 69KV BUS TIE BREAKER ADDITION

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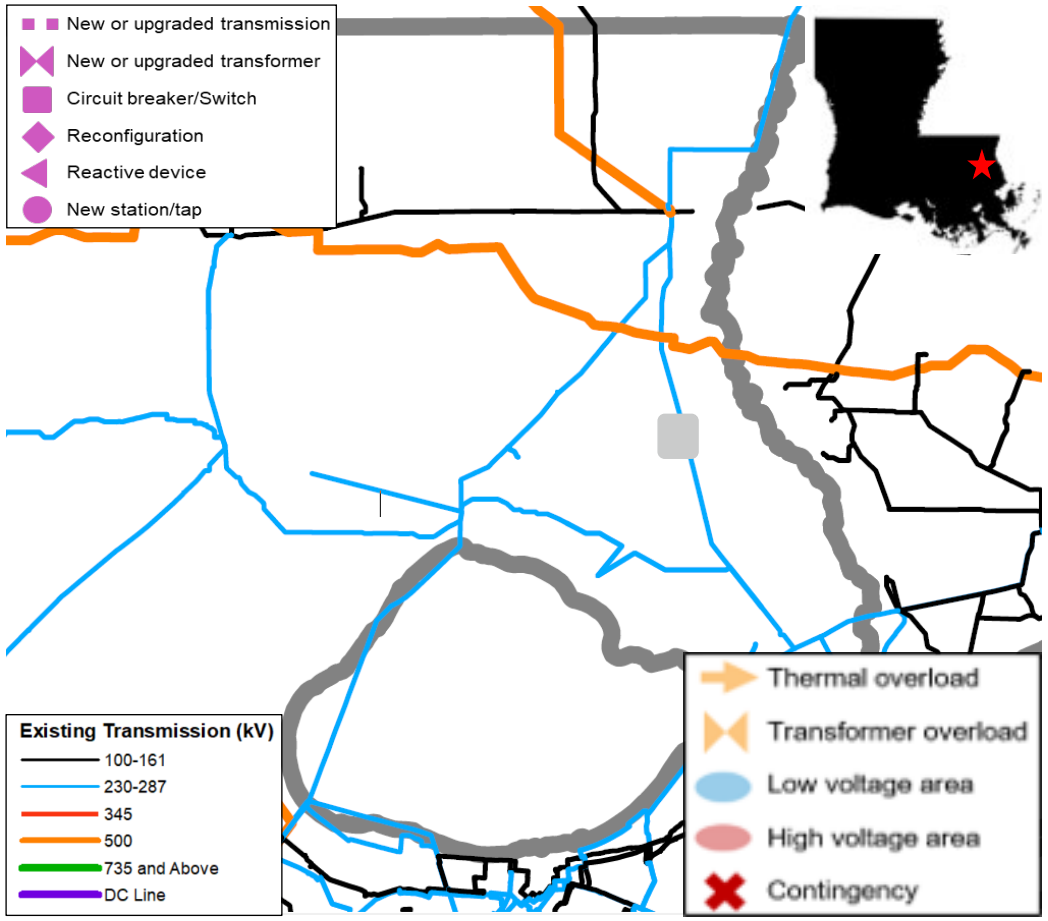


Project #	51065
Project Name	TALISHEEK 230KV LINE BREAKER ADDITIONS AND 69KV BUS TIE BREAKER ADDITION
Project Type	Other, Local Reliability
Project Description	ADD 230V LINE BREAKERS, A 69KV BUS TIE BREAKER, AND ASSOCIATED EQUIPMENT TO THE EXISTING 1803 TALISHEEK 230/69KV SUBSTATION
System Need	INCREASE RELIABILITY OF THE TALISHEEK DELIVERY POINT BY ADDING ADDITIONAL INTERRUPTING DEVICES.
Current Cost	$4.7M
Expected ISD	6/1/2029
Target Appendix	A in MTEP26

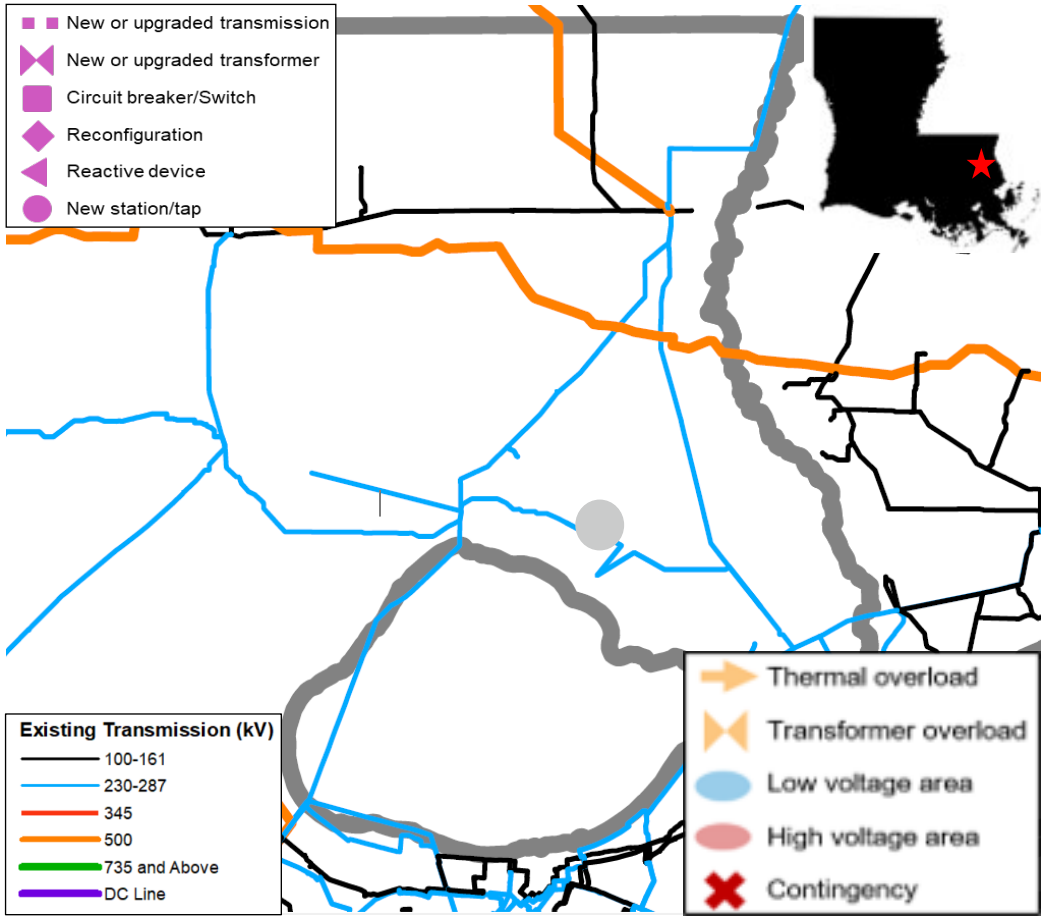
Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - No impact to the system was found

[LAGT] EAST MANDEVILLE 230/69KV SUBSTATION

LAGT: EAST MANDEVILLE 230/69KV SUBSTATION



Project #	51070
Project Name	EAST MANDEVILLE 230/69KV SUBSTATION
Project Type	Other, Local Reliability
Project Description	ENGINEER, PROCURE, AND CONSTRUCT A NEW 230/69KV SUBSTATION TO SERVE WST'S MANDEVILLE AND LACOMBE STATIONS. THIS SUBSTATION REMOVES THE NEED FOR THE MANDEVILLE MEDIUM VOLTAGE DELIVERY POINT AND PROVIDES A NEW 230KV SOURCE TO THE SOUTH SIDE OF 1803/WSTE'S SYSTEM.
System Need	THE EXISTING MANDEVILLE TO LACOMBE 69KV LINE IS CURRENTLY OPERATED AT 34.5KV AND HAS REACHED ITS CAPACITY. THE 1803/WSTE LONG TERM PLANS FOR THIS AREA IS TO CONVERT THE MANDEVILLE AND LACOMBE STATIONS TO 69KV OPERATION AND EXTEND A 69KV LINE FROM THE NEW EAST MANDEVILLE SUBSTATION THROUGH LACOMBE AND TO HICKORY.
Current Cost	$16.9M
Expected ISD	12/1/2028
Target Appendix	A in MTEP26

Models, Reliability Analysis, and Neighbor Coordination

- The EPR was applied to all applicable MTEP models based on the In-Service Date. Models were posted for submitting TO review prior to analysis.

- MISO performed TPL-001-5.1 no-harm analysis utilizing n-1 and n-1-1 contingencies centered around the point of interconnection of the EPR
  - Results were posted for impacted entity feedback
  - No impact to the system was found

Questions?