

Submission of Supplemental Projects for Inclusion in the Local Plan

AEP Local Plan - 2025



AEP Transmission Zone M-3 Process Ligonier, Indiana

Need Number: AEP-2024-IM010 Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025 Previously Presented: Need Meeting 04/19/2024, Solution Meeting SRRTEP-W - 10/18/2024 Supplemental Project Driver: Customer Need Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 12)

Problem Statement:

I&M Distribution has requested to retire Ligonier station and to relocate the delivery point to Charger Station.

Requested ISD: 2026







Need Number: AEP-2024-IM010 **Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025

Proposed Solution:

Charger Station: Install 1x 138kV circuit breaker at Charger Station. Install 2x 138/12kV distribution banks with feeders at Charger Station. Estimated Cost: \$1.6 M **(s3591.1)**

Charger - Ligonier 138kV: Retire 138/12kV Ligonier station and remove ~0.25 miles of 138kV transmission line from Charger – Ligonier Station. Estimated Cost: \$0.4 M **(s3591.2)**

Transmission Cost Estimate: \$2 M

Alternatives Considered:

Considering the existing space at Charger and the request to retire the existing station, no other alternates were identified. Rebuilding Ligonier station is not needed with the capacity replaced at Charger. Charger was established under project s1615.

Supplemental Project ID: s3591.1-.2

Projected In-Service: 09/14/2027 Project Status: Scoping

AEP Transmission Zone M-3 Process Ligonier, Indiana







AEP Transmission Zone M-3 Process Columbus, OH

Need Number: AEP-2023-OH004

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025 **Previously Presented:** Need Meeting 1/20/2023, Solution Meeting SRRTEP-W - 10/18/2024 **Project Driver:**

Equipment Condition/Performance, Operational Flexibility and Efficiency, & Customer Service **Specific Assumption Reference:**

AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13) **Problem Statement:**

Bexley Station 138kV:

- AEP Ohio has indicated they have equipment rehabilitation needs at the station.
- 2 138/39.4/13.8kV: (TR 1 & 2) Westinghouse Vintage 1955 rated 41.66 MVA transformers.
 - TR 1 & 2 do not have arresters on the 40 kV or 13kV windings
 - Several small oil leaks and nitrogen leaks on TR1 and TR2
 - No oil containment on any of the transformers
 - $\,\circ\,\,$ Bus A, Phase A and B exit cable switches are hot on TR1
- 5 40kV: (CBs 41, 42, 43, 44, & 47) & 2 138kV: (CBs 105 & 106) are oil type breakers.
 2-138kV: (CBs 105 & 106) 1970s vintage FK & ALP oil breakers.
- o 5-40kV: (CBs 41, 42, 43, 44, & 47) 1960s & 1970s vintage GE & Westinghouse oil breakers.
- 1-40kV: CB-42 has 14 Fault Operations (Manufacture recommended: 10)
- 1 40kV: (CB 45) is a SF6 type breaker has limited spare part availability, and poor historical reliability
- 1 40kV: CS-Bank 3 is an SF6 2030-69 model circuit switcher, which has been identified as needing replacement due lack of to spare part availability, historical reliability, and lack of vendor support.
- The 40kV system is an obsolete voltage class and as a result is difficult to obtain replacement parts.



4



AEP Transmission Zone M-3 Process Columbus, OH

Need Number: AEP-2023-OH004

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025 **Previously Presented:** Solution Meeting SRRTEP-W - 10/18/2024, Need Meeting 1/20/2023 **Project Driver:**

Equipment Condition/Performance, Operational Flexibility and Efficiency, & Customer Service **Specific Assumption Reference:**

AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Bexley Station 138kV:

- 30 Microprocessor relays: The identified relays are obsolete, no longer supported, or have been identified as high risk of failures.
- 124 Electromechanical relays: EM relays have limited spare part availability, a lack vendor support, no SCADA functionality, and no fault data collection ability.
- 1 Static relay: this type of relay has significant limitations with regard to fault data collection and retention.
- The station has experienced 6 outages between 2017 2022 with a CMI of 2,595,064.





Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025

Proposed Solution:

Bexley Station Work: At Bexley, work will be performed to address asset renewal concerns associated with the site and transmission equipment including work to allow for the retirement of the existing 40 kV yard at the station. This includes replacing 138 kV circuit breaker '106' with a 138 kV 63 kA 3000 A circuit breaker. Note that 138 kV breaker '105' that was identified in the original need statement failed in the field and has been subsequently replaced. Estimated Cost: \$4.423 M (s3577.1)

Bexley Station 40 kV Bypass: Transmission line work will be completed outside Bexley to allow 40 kV circuits to bypass the station to accommodate the retirement of the 40 kV yard. Estimated Cost: \$2.192 M (s3577.2)

Etna Road Station 40 kV Bypass: Transmission line work will be completed to allow 40 kV circuits to bypass Etna Road station to accommodate the 40 kV equipment retirement at Etna Road. Poth station (s2639) replaced the distribution function of Etna Road. The proposed work will disconnect the station from the 40 kV transmission grid and retire the remaining equipment in the station. Estimated Cost: \$0.618 M (s3577.3)

Transmission Cost Estimate: \$7.233 M

Alternatives Considered:

Considering the needs can be addressed by retirement only with other capacity already installed at other locations to replace the obsolete 40 kV equipment, no other alternatives were identified. Replacing the 40 kV equipment would not be practical or necessary.

Supplemental Project ID: s3577.1-.3

Projected In-Service: 09/30/2026

Project Status: Scoping

AEP Transmission Zone M-3 Process Columbus, OH

Existing:



Proposed:





AEP Transmission Zone M-3 Process Scioto County, Ohio

Need Number: AEP-2022-OH068

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025

Previously Presented: Solutions Meeting SRRTEP-W - 10/18/2024, Need Meeting 09/16/2022

Project Driver:

Equipment Material/Condition/Performance/Risk

Specific Assumption Reference:

AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Oertels - North Portsmouth 69 kV:

- Original Install: 1947
- Total Length: ~4.7 Miles
- Conductor Types:
 - ~3.05 miles of 1/0 ACSR 6/1 (Raven) from 1947
 - ~1.65 miles of 3/0 ACSR 6/1 (Pigeon) from 1947
- Outage History:
 - 13 momentary & 10 permanent outages
 - Total CMI of 4,619,162
- Total Structure Count: 80 Wooden
 - 32 from 1940's, 7 from 1960s, 1 from 1970's 32 from 1980's 4 from 1990's 4 from 2010s
- Open Conditions: There are 36 structures with at least one open condition which relates to 45% of the structures on this line. There are 41 structure related open conditions dealing with broken and split crossarms, burnt crossarm, rot on crossarms, woodpecker holes, and rot top on poles. 3 hardware related open conditions dealing with missing ground lead wires & broken or burnt insulators. 9 forestry related open conditions.
- Additional Information: 3.1 miles of the line is already being rebuilt under b3362.



7



AEP Transmission Zone M-3 Process Scioto County, Ohio



Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025

Proposed Solution:

North Portsmouth-Oertels Corner 69 kV Line: Rebuild ~1.7 miles of 69 kV line from North Portsmouth to str. 13 on the North Portsmouth-Oertels Corner 69 kV lie using ACSR 556 Dove. The remaining ~3.05 miles of the line is to be rebuilt under b3362. Estimated Cost: \$3.873 M (s3589.1)

Transmission Cost Estimate: \$3.873 M

Alternatives Considered:

No viable transmission alternative identified given the nature of the remaining needs left on the asset after the proposed baseline rebuild (b3362).

Supplemental Project ID: s3589.1

Projected In-Service: 05/01/2026

Project Status: Scoping

Legend	
765 kV	
345 kV	
138 kV	
69 kV	
34.5 kV	
23 kV	
New	

Existing:









AEP Transmission Zone M-3 Process New Albany, OH

Need Number: AEP-2023-OH070 **Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025

Previously Presented: Solutions Meeting SRRTEP-W - 10/18/2024, Need Meeting 5/19/2023

Project Driver: Customer Service

Specific Assumption Reference:

AEP Connection Requirements for the AEP Transmission System (AEP Assumptions Slide 12)

Problem Statement:

Customer Service:

- Buckeye Power, Inc. (Buckeye), on behalf of The Energy Cooperative (Licking REC) has requested a new 138 kV delivery point in New Albany Ohio.
- The projected demand at this delivery point is 24 MW in 2025 with an expected ultimate load of 43 MW by 2033.
- The customer has requested an ISD of June 2025





AFP Transmission Zone M-3 Process New Albany, OH





Need Number: AEP-2023-IM023 Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025 Previously Presented: Solution Meetings: 10/8/2024, 6/4/2024; Needs Meeting 10/31/2023 Supplemental Project Driver: Customer Service Specific Assumptions Reference: AEP Interconnection Guidelines (AEP Assumptions Slide 12)

Problem Statement:

• A customer has requested new service for 1100MW of load in New Carlisle, IN area. Initial service is requested by 12/15/2026.

AEP Transmission Zone M-3 Process Project Amazing Sites 100 and 201





88 kV
 115 kV
 138 kV
 161 kV
 230 kV
 345 kV
 500 kV

765 kV





BOUNDLESS ENERGY

Need number(s): AEP-2023-IM023

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/26/2025

Proposed Solution:

Larrison Drive 345 kV Station: Construct a new station in a breaker and a half configuration consisting of sixteen (16) 345kV 5000A 63kA breakers, six (6) 345kV meters, and station fiber cable to serve 550MW of new load. Construct six (6) 345kV bus ties from AEP's Larrison Drive 345kV station to the customer station. Cut in the Elderberry-Dumont and Dumont-Olive Bypass 345 kV line into the new station. Estimated Cost: \$70.38 M (s3588.1)

New Prairie 345 kV Station: New station to be constructed in a breaker and a half configuration consisting of sixteen (16) 345kV 5000A 63kA breakers, six (6) 345kV meters, and station fiber cable. Construct six (6) bus ties from AEP's New Prairie 345kV station to the customer station. Cut in the Elderberry-Dumont and Dumont-Olive Bypass 345 kV line into the new station. Estimated Cost: \$79.53 M (s3588.2)

Sorenson Remote End Work: Remote end work at Sorenson station to facilitate the construction of Larrision Drive and New Prairie 345kV st. Estimated Cost: \$1.72 M (s3588.3)

Elderberry Remote End Work: Remote end settings work at Elderberry station to facilitate the construction of Larrision Drive and New Prairie 345kV stations. Estimated Cost: \$1.72 M (s3588.4)

Dumont Remote End Work: Remote end work at Dumont station to facilitate the construction of Larrision Drive and New Prairie 345kV stations. Estimated Cost: \$1.72 M **(s3588.5)**

Kenzie Creek-Thomson 345 kV Sag Study: Complete sag study and mitigation on the Kenzie Creek-Thomson 345 kV line. Estimated Cost: \$0.62 M (s3588.6)

Olive 345kV Station: Replace overdutied 345kV circuit breakers B, B1, B2, D1, and D2. Bring in the Olive Bypass

(Dumont - Sorenson 345kV circuit) and install 3 new 345kV circuit breakers for new 'C' string. Estimated Cost: \$29.287 M (s3588.7)

Transmission Cost Estimate: \$184.977M

Alternatives Considered: Considering the location of the requested load and availability of land on the customer sites, no other alternatives were viable.

Supplemental Project ID: s3588.1-.7

Projected In-Service: 12/15/2026

Project Status: Scoping

AEP Transmission Zone M-3 Process Central Ohio





AEP Transmission Zone M-3 Process Franklin, OH

Need Number: AEP-2024-OH033

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Previously Presented: Solution Meeting SRRTEP-W - 11/15/2024; Need Meeting 04/19/2024

Project Driver: Customer Service

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 12)

Problem Statement:

- AEP Ohio is requesting a new 138 kV delivery point in Franklin County Ohio, just southeast of St. Clair and west of Bexley Station to support growth in the area. Initial load is anticipated to be approximately 18 MVA with a future projected load of approximately 23 MVA.
- The requested in-service date is November 2026.





Need Number: AEP-2024-OH033

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Proposed Solution:

Drew Station Transmission Line Cut in and Extension work.: A greenfield double circuit 138kV T-line (~0.2 miles) will be constructed from the existing Bexley - St. Clair Ave 138 kV line cut in the new distribution delivery at the proposed Drew station. Estimated Cost: \$5.302 M. (s3593.1)

Drew Station: To accommodate the new distribution deliveries requested a new 138/13.8 kV station called Drew will be constructed. The station will be configured as a four breaker ring utilizing 138 kV 3000A 63 kA breakers to provide service to two new 138/13.8 kV distribution transformers. Estimated Cost: \$4.746 M. (s3593.2)

Relay Upgrades at Bexley and St. Clair Avenue: Remote end work will be performed at Bexley and St. Clair Ave stations in or to coordinate with the newly proposed Drew station. Estimated Cost: \$0.746 M. (s3593.3)

Transmission Cost Estimate: \$10.793 M

Alternatives Considered:

• Transfers to other area distribution feeders and stations (St. Clair & Bexley) were considered, but capacity on these feeders is already very limited. This would only buy a year or two before overloading would again be an issue and would eliminate contingency transfer options. Reliability on the existing distribution feeder is poor and an ongoing issue with high profile customers.

• Constructing a new distribution feeder out of Bexley was considered, but a new duct and manhole system would have to be utilized for the entire length. This new feeder was estimated to cost around \$10M. Additionally, this would not address the lack of contingency transferability between feeders in the area.

Supplemental Project ID: s3593.1-.3

Projected In-Service: 11/30/2026

Project Status: Scoping

Existing: Saint Clair Bexley Avenue Legend 500 kV 345 kV 138 kV Proposed: 69 kV 34.5 kV 23 kV New Saint Clair Drew Bexley Avenue

AFP Transmission Zone M-3 Process

Franklin, OH



Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Previously Presented: Solutions Meeting 12/03/2024; Needs Meeting 5/9/2023

Supplemental Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Paper Expanded/Air Expanded (PE/AE) Lines in AEP

- The specific conductors of concern are as follows:
 - 1,275,000 CM ACSR/PE 54/19
 - 1.414.000 CM ACSR/AE 62/19
 - 1,414,000 CM ACSR/PE 62/19 (Falbo)
 - 1,708,000 CM ACSR/AE 66/19
 - 1.75 ACSR AE
- There are approximately 570 miles of PE/AE lines throughout AEP's 345kV footprint. Many of the PE/AE lines are built on double circuit towers making the conductor miles approximately 1,114 miles on the AEP system
- The Centre for Energy Advancement through Technological Innovation (CEATI) Report No. T144700-3257: Statistical Data and Methodology for Estimating the Expected Life of Transmission Line Components provides a timeframe of anticipated useful life of the various transmission line equipment as guided by industry experience. The CEATI estimated expected life of conductor is 40-80 years. AEP focuses on evaluating the condition and performance of each asset and the risk that the failure of each poses to the system, connected customers, personnel, and the public.
- The PE/AE conductor types are no longer standard conductor types used by AEP and the general utility industry.
 - Vendors do not have this conductor type readily available for purchase. This conductor type requires specialized splices and assemblies, which are not readily available for purchase from vendors. Special orders are required to obtain this equipment, causing long lead times for materials.
- AEP has concerns of increased core corrosion on the PE/AE conductor fleet. These concerns are based on the review of conductor samples following recovery events.



AEP Transmission Zone M-3 Process Western Indiana and Central Ohio

WALDO

LINCOLN STREET

DELAWARE (CSF

Delaware

PARK

TAMO

Radnor Twi



Figure 1: Western Indiana



Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Previously Presented: Solutions Meeting 12/03/2024; Needs Meeting 5/9/2023

Supplemental Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Paper Expanded/Air Expanded (PE/AE) Lines in AEP

- Corrosion related conditions are an indicator of the elevated risk of conductor or equipment failure.
- The degraded state of corroded conductor cores result in significant loss of tensile strength and potential risk to the public if the conductor were to fail and fall to the ground. This can also lead to unplanned outages on the 345kV circuits.
- Due to the lack of conductor availability, standard conductor is spliced in when needed. Each conductor type has different weights, which can affect ratings and structure overloads. When the weight of the wire is increased, the existing structures can be overloaded.
- AEP anticipates a timeline of over 20 years to address the imminent needs of the 570 line miles of 345kV. This timeline was created assuming best scenario and could be impacted if there are any ROW concerns, material acquisition concerns or operational limitations. Limitations of 345kV outages in the summers are expected
 - If AEP addresses 2 of these lines at a time this could impact 4x 345kV circuits. Taking several outages on the 345kV system at once could have operational challenges
- In order to address these needs within the next 20+ years, AEP needs to begin planning solutions for PE/AE lines today
- Even though the conductor needs to be evaluated for each line, it is possible that we will be able to use existing structures where feasible. Each of these circuits will need to be evaluated individually and recommended solutions will be shared with stakeholders in accordance with M-3 provisions



AEP Transmission Zone M-3 Process Western Indiana and Central Ohio

WALDO

LINCOLN STREET

DELAWARE (CSI



Figure 1: Western Indiana



Paper Expanded conductor samples were observed following the 2019 Memorial Day Tornados in the Indiana and Michigan footprint. Corrosion of the cores can be seen in the pictures below.







Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Previously Presented: Solutions Meeting 12/03/2024; Needs Meeting 5/9/2023

Supplemental Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Paper Expanded/Air Expanded (PE/AE) Lines in AEP

Olive Reynolds 345kV Line Need

- Majority of the 68.1 miles long (299/306 structures) is constructed from 1957 double circuit steel lattice towers
- On the Olive-Reynolds #1 and #2 Circuits:
 - 135 miles of the 136 miles of conductor is 1,414,000 CM ACSR/PE Conductor
- There were at least 30 structures throughout the line that were assessed Every assessed structure was showing signs of corrosion. Several of the assessed structures were showing hardware needs such as a bent conductor damper rubbing on the wire and flashed or broken insulators.
- Currently, there are 168 structures with at least one open condition (excluding forestry concerns), which relates to 55% of the structures on the line segment. These open conditions include, but are not limited to the following:
 - Galvanizing loss, loose, or missing lacing, broken conductor or shield wire strands, broken or loose conductor hardware, broken burnt or chipped insulators, damaged insulator assembly hardware, and broken shield sire hardware.



AEP Transmission Zone M-3 Process Western Indiana and Central Ohio

WALDO

LINCOLN STREET

DELAWARE (CSI





Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Proposed Solution:

Olive - Reynolds 345kV: Rebuild ~68.1 miles of double circuit 345kV on centerline. Costs include transmission line removal, OPGW, and Right of Way. Estimated Cost: \$452.64. (s3594.1)

Transmission Cost Estimate: \$452.64 M

Alternatives Considered:

Due to the large amount of IPP connections on both sides of the circuit (~28x projects in queue) on this line, no alternative to retire the Olive-Reynolds 345kV double circuit is a viable option.

Alternate to reconductor the 68.1 miles of 345kV line was considered. Due to tower conditions noted in needs slide, this alternate was not selected.

Supplemental Project ID: s3594.1

Projected In-Service: 05/30/2031

AEP Transmission Zone M-3 Process Western Indiana and Central Ohio





AEP Transmission Zone M-3 Process Summerhill, OH

Need Number: AEP-2024-OH015

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Previous Meetings: Solution Meeting SRRTEP-W - 12/13/2024; Need Meeting SRRTEP-W - 10/18/2024

Supplemental Project Driver: Equipment Condition/Performance/Risk **Specific Assumption Reference:** AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Summerhill Station Switch:

• The 69kV phase-over-phase switch pole outside Summerhill station was originally installed in 1977. It is a wood pole structure which has warped since installation, placing the switch attachments out of alignment and causing increased maintenance to keep operational. It also has increasing levels of rot and woodpecker damage.

• In addition, the legacy sectionalizing controls on the switch have been unreliable. The switch lacks an RTU and SCADA functionality, limiting the capabilities of AEP's control center. Local field employees must be sent to the station to troubleshoot or operate the switches.

• The switch is a 2-way switch, rather than a standard 3-way switch, resulting in the need to interrupt the 69kV transmission through-path when scheduling an outage at the station.







Need number(s): AEP-2024-OH015 **Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Proposed Solution:

Summerhill: At Summerhill station, replace the wood pole 2-way 69kV line switch with a new steel pole 3-way switch with motor operators and SCADA functionality. Reconfigure the 69kV transmission lines connected to the switch, based on the new switch location. Estimated Cost: \$2.03 M. (s3596.1)

Transmission Cost Estimate: \$2.03 M

Alternatives Considered:

Install a 69kV box bay structure with switches inside the station fence. (~\$4.5 Million). This would have required relocating most of the distribution equipment at the station and expanding the fence, which is not necessary at this time.

Supplemental Project ID: s3596.1

Projected In-Service: 02/01/2027

Project Status: Scoping

AEP Transmission Zone M-3 Process Summerhill, OH









AEP Transmission Zone M-3 Process Fort Wayne, IN

Need Number: AEP-2023-IM018

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Previously Presented: Solution Meeting SRRTEP-W - 1/17/2025; Need Meeting 07/21/2023

Project Driver: Equipment Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

Lawton Park-Lawton Switch:

- Lawton Park- Lawton Switch 34.5kV line is 2.59 miles long that was originally installed in 1956 and mostly consists of single wood poles
- Structures fail to meet NESC Grade B and AEP structural strength requirements
- The grounding method utilizes butt wraps on every other structure, which is inadequate for current AEP Standards.
- The shield angle on a typical tangent structure is measured at 45 degrees, which is inadequate for current AEP shield angle requirements and can lead to poor lightening performance
- There are 63 structures with that have at least one (1) open condition (82% of line). These conditions specifically affecting the pole include woodpecker damage, insect damage, split, cracked, damaged, rot heart, broken, leaning transverse and rot shell conditions
- Out of 32 structures assessed (22 by aerial drone and 10 by ground crew), the following conditions were found:
 - Greater than 50% of wood poles assessed have moderate to advanced decay of the shell or ground line heart
 - Most poles have decayed tops, crossarms have light to moderate decay, crossarm braces have advanced decay and insect damage





Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Proposed Solution:

Spy Run - Bass 34.5kV line: Rebuild ~2.4 miles of 34.5kV line (built to 69kV line standards) between Spy Run and Bass. Costs include removal and ROW. This line rebuild is in an urban area with distribution underbuilds. Additionally, there is an existing 138kV/34.5kV line crossing with the Industrial Park-Spy Run 138kV transmission line, to accommodate the 69kV line rebuild 2x 138kV towers will need to be raised for the crossing. Estimated Cost: \$6.758 M. (s3595.1)

Transmission Cost Estimate: \$6.758 M

Alternatives Considered:

Retire the Spy Run-Bass 34.5kV lines and convert customer stations Bass and Spring St to 138kV and customer station Slater Steel to 69kV. Estimated cost: \$10M

Supplemental Project ID: s3595.1

Projected In-Service: 3/17/2028

Project Status: Scoping

AEP Transmission Zone M-3 Process Fort Wayne, IN



Revision History

3/26/2025 – V1 Added slides #1-12: s3589.1, s3577.1-3, s3588.1-7, s3590.1-.3, s3591.1-.2

4/07/2025 – V2 Added slides #13-23: s3593.1-3, s3594.1, s3595.1, s3596.1.