

BPA Attachment K Planning Process

Planning Meeting II

December 5, 2025



Agenda

- Introductions
- Attachment K Planning Cycle – 2025
- Attachment K Website
- Economic Study Requests
- Project Updates and Significant Planned Projects
- Next Steps

Attachment K Planning Cycle - 2025

- **Customer Meeting I** **April 25, 2025**
 - 2024 BPA Transmission Plan
 - 2025 Planning Assumptions, Criteria, Methodology
 - Economic Study Requests
- **Posting I** **September 2025**
 - Summary of 2025 System Assessment Results and Conceptual Solutions
- **Customer Meeting II** **December 5, 2025**
 - Project updates
- **Posting II** **End of Year 2025**
 - 2025 BPA Transmission Plan

BPA's Attachment K Planning Process Website

<https://www.bpa.gov/energy-and-services/transmission/attachment-k>

BPA's Attachment K Planning Process Website



The image shows the header of the Bonneville Power Administration website. It features the BPA logo (a stylized 'B' and 'P' with a mountain peak) and the text 'Bonneville POWER ADMINISTRATION'. The main navigation menu includes 'Energy & Services', 'Environment & Land', 'Learn & Participate', 'About & Careers', a search icon, and a user icon. Below the main menu is a secondary navigation bar with links to 'Power Services', 'Transmission Services', 'Energy Efficiency', 'Rate & Tariff Proceedings', and 'Customer & Contractor Services'.

Doing Business

Becoming a Transmission Customer

Grid Expansion and Reinforcement Portfolio (GERP)

Acquiring Transmission

Business Practices

Notices

Open Access Transmission Tariff

Attachment K Planning

Transmission Business Model

Coordinated Transmission Agreement

Customer Training

Standards of Conduct

Commercial Business Process Improvement

Grid Access Transformation Project

Attachment K Planning

Transmission Services conducts system planning meetings in accordance with its Open Access Transmission Tariff Attachment K. These meetings provide customers and interested parties the opportunity to discuss and provide input to the studies and development of the plans of service. This page provides information about the Transmission Services Attachment K process including notifications of meetings, results of planning studies, plans of service and other reference information.

Email Information

To request participation in the Planning Process, send questions, comments, or request copies of reports, complete the [Planning Process Participation Request](#).

To request an Economic Study, fill out the [Economic Study Request Form](#).

Planning Cycles

2026 Planning Cycle	+
2025 Planning Cycle	+
2024 Planning Cycle	+
2023 Planning Cycle	+



BPA's Attachment K Planning Process Website

2025 Planning Cycle

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This page provides information about the Transmission Services Attachment K process including notifications of meetings, results of planning studies, plans of service and other reference information. To request participation in the Planning Process, complete and email the Participation Request form.

[Expand Planning Cycle for details](#)

Meetings

December 5, 2025

- [Agenda](#)

April 25, 2025

- [Agenda](#)
- [Planning Meeting I 2025](#)

Reference Information

[2025 System Assessment Assumptions and Methodology](#)

Request for [2025 System Assessment Summary](#) (September 2025)

BPA's Attachment K Planning Process Website

- **E-mail Information**
 - PlanningParticipationRequest@bpa.gov
 - PlanningEconomicStudyRequest@bpa.gov
- **Meetings**
 - Meeting announcements, agendas, etc.
- **Economic Studies**
 - Requesting and Tracking Economic Studies
- **Reference Information**
 - Materials associated with the Planning Process, participation forms, etc.
- **Links**
 - Links to information related to the Planning Process

Economic Study Requests

- What is an Economic Study?
 - Studies may be requested to address congestion issues or the integration of new resources and loads.
- How are Requests for Economic Studies submitted?
 - Use the Economic Study Request Form on the Attachment K website
 - Submit to PlanningEconomicStudyRequest@bpa.gov
- Requests may be submitted any time...
Requests submitted after October 31 will be considered in the next prioritization process.
- BPA will complete up to two Economic Studies per year at its own expense.
- There were no Economic Study Requests received during the study cycle which closed on October 31, 2025.

CFR Customers

BPA provides contracted Transmission Planning services for the following NT customers who have Coordinated Functional Registrations (CFR) with NERC.



Klickitat County PUD



Lewis County PUD



Northern Wasco County PUD



Pend Oreille PUD



Umatilla Electric Cooperative



Whatcom PUD



Lower Valley Energy

Draft Plans of Service (2025 Planning Cycle)

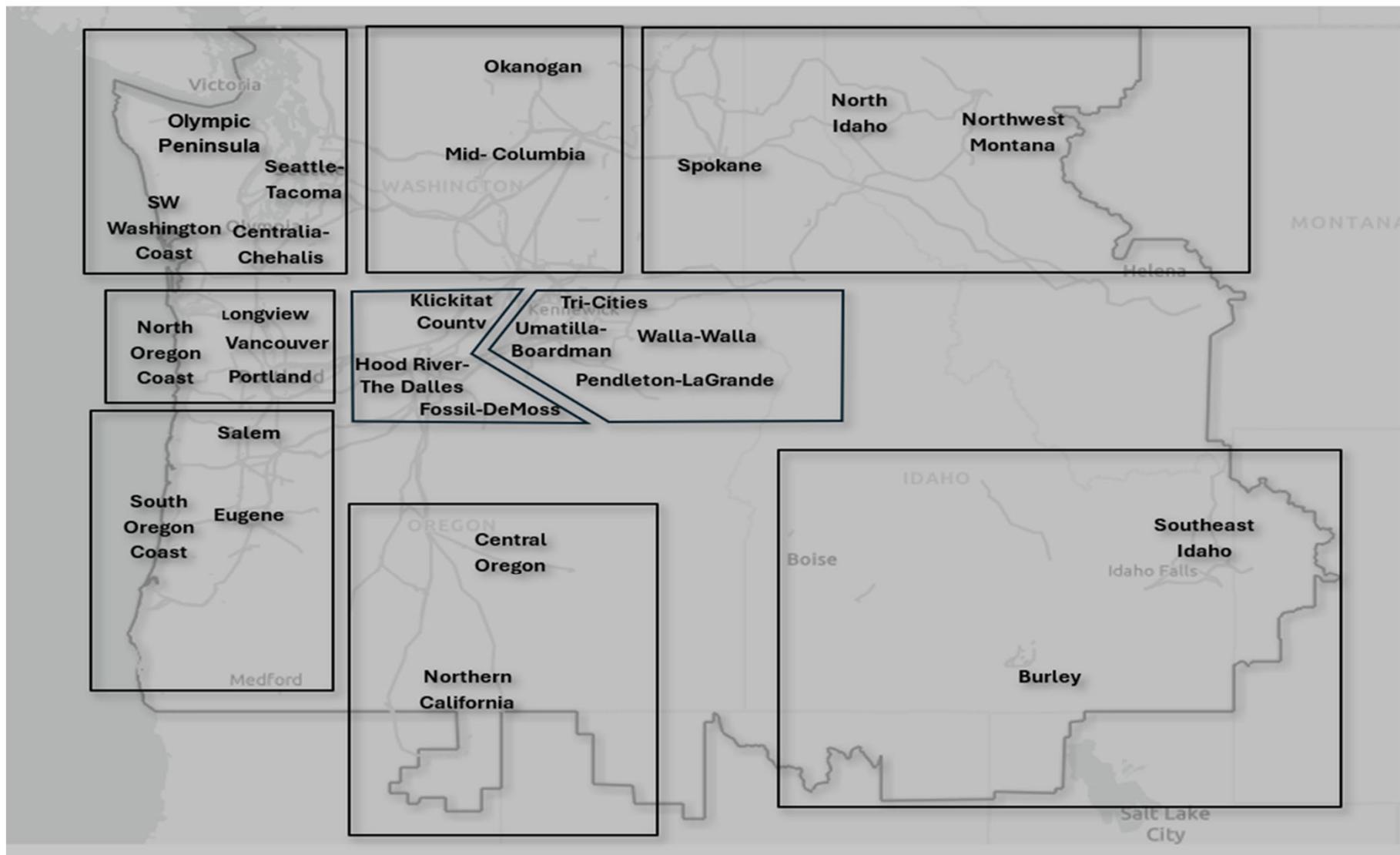
- Most of the draft plans of service on the following slides, have been developed to maintain compliance with the applicable planning reliability standards and criteria
- The following standards and criteria were applied in development of the proposed corrective action plans:
 - **NERC Reliability Standard TPL-001-5.1**
(North American Electric Reliability Corporation)
 - **WECC Reliability Criteria TPL-001-WECC-CRT-4**
(Western Electricity Coordinating Council)
- The remaining plans of service provide needed equipment upgrades or improve Operational or Maintenance Flexibility

Draft Plans of Service (2025 Planning Cycle)

- BPA's 2025 System Assessment for the load areas was based on current studies per NERC TPL Reliability Standard
- The transmission system was divided into 27 load service areas and 18 paths/interties
- There were 17 new corrective action plans (plans of service) identified from the 2025 System Assessment
- Several of the projects identified from previous System Assessments have updated schedules as shown on the following slides

Bold text indicates a schedule or status change as of 11/8/2025 compared with last year's update. ISDs are subject to change

Planning and Load Service Areas



Project Updates

Seattle/Tacoma Area

Projects

- Monroe-Novelty 230 kV Line Upgrade
- Sno-King 230/115 kV Bank 3 PCB Bushings CTs Upgrade

Schedule

2028

TBD

Centralia/Chehalis

Project

Silver Creek 230 kV Bus Sectionalizing Breaker Addition

Schedule

2028

Project Updates

SW Washington Coast Area

Projects

Cosmopolis-Satsop Park 115 kV No.1 Upgrade

- Upgrade the line to 100 deg C MOT

Satsop Park-South Elma 115 kV No.1 Upgrade

- Upgrade the line to 100 deg C MOT

Aberdeen-Aberdeen Tap to

Cosmopolis-Satsop Park 115 kV No.1 Upgrade

- Upgrade the line to 100 deg C MOT

Schedule

Completed

Completed

2028

Olympic Peninsula Area

Projects

Kitsap 115 kV Shunt Capacitor Relocation

Shelton-Fairmount 115 kV No.1 Line Upgrade

Schedule

2029

2029

Project Updates

Portland Area

<u>Project</u>	<u>Schedule</u>
Troutdale 230 kV Series Bus Sectionalizing Breaker Addition	2027
Keeler 230 kV Bus Sectionalizing Breaker Addition	2029
Keeler 500 kV Bus Reconfiguration and 500/230 kV TX-2	2031
Pearl-Sherwood 230 kV Line Reconfiguration	2026
Pearl 230 kV Bus Sectionalizing Breaker Addition	2028
Carlton 230 kV and 115 kV Breaker Additions (O&M Flexibility)	2026
Forest Grove-McMinnville 115kV Line Upgrade (O&M Flexibility)	2026
St Johns 230/115 kV Transformer Tie Line Upgrade	Completed
Second Driscoll UVLS Relay	TBD

Project Updates

Eugene Area

Project

Alvey-Dillard Tap 115 kV Line Rebuild (O&M Flexibility)

Schedule

2028

Salem/Albany Area

Project

Chemawa 300 MVA, 230/115 kV Transformer Bank

Schedule

TBD

Lebanon 300 MVA, 230/115 kV Transformer Bank

TBD

Santiam 500/230 kV Bank #4 230 kV PCB A542 and

TBD

Associated Line Side Disconnect Switch Upgrade

Project Updates

Mid-Columbia Area

Project

Ellensburg 115kV Shunt Capacitor Expansion

Schedule

TBD

Hood River/The Dalles Area

Project

Big Eddy 230 kV Redundant Bus Differential
Protection addition

Schedule

TBD

Okanogan

Project

East Omak Shunt Capacitor Addition (21 MVAR)

Schedule

TBD

Project Updates

Umatilla Area

Project

Morrow Flat 230 kV Shunt Reactor (40 Mvar) Addition

Schedule

Cancelled

Northwest Montana Area

Project

Columbia Falls 230/115 Transformer Bank 2 & 3 Replacement

Schedule

TBD

Project Updates

Tri-Cities Area

Project

Sacajawea to Ice Harbor-Franklin #1 115 kV line addition

Schedule

TBD

Central Oregon Area (includes Alturas Area)

Project

New Bonanza 500/230 kV Substation addition

Schedule

2031

Bonanza-La Pine 230 kV line addition

2032

Warner 115 kV +/- 100 MVAR STATCOM addition

2030

Project Updates

North Idaho Area

Project

Troy 115 kV Shunt Capacitor (12.6 Mvar) Addition

Schedule

2032

South Oregon Coast Area

Project

Toledo 230 kV and 69 kV Bus Tie Additions (O&M Flexibility)

Wendson 115 kV Bus Tie Breaker Addition (O&M Flexibility)

Schedule

Completed

Completed

Project Updates

SE Idaho/Northwest Wyoming Area

Project

Cattle Creek-Palisades Rebuild and
Palisades-Swan Valley 115 kV lines to 161 kV
with additions of 161/115 kV transformers at
Palisades and Swan Valley

Replace Targhee 115 kV tap with new substation,

16.5 Mvar Shunt Capacitor addition,
Targhee-Swan Valley 115 kV line reconductor and
Targhee-Drummond 115 kV line reconductor

Teton 115 kV substation sectionalizing breaker addition and
12.6 Mvar shunt capacitor addition

Schedule

TBD

TBD

TBD

Project Updates

Spokane/Colville/Boundary Area

Project

Bell-Boundary (Sacheen) 230 kV No.1 Upgrade

Schedule

Completed

West of Cascades North (WOCN) Path

Project

Schultz-Raver 500 kV No. 3 and No. 4 Series Capacitors

Schedule

2029

Schultz-Raver 500 kV No. 3 and No. 4 Reconductor

2032

Significant Planned Projects

Buckley Air Insulated Substation

Description

Buckley 500 kV conventional Air Insulated Substation(AIS) is a permanent replacement of a Buckley Gas Insulated Substation(GIS). Currently, the GIS is bypassed by a temporary three terminal emergency bypass until a new AIS is built. Buckley AIS will be configured in a double bus, double breaker layout using a breaker and half scheme that will provide opportunities for future system expansion.

Expected Energization

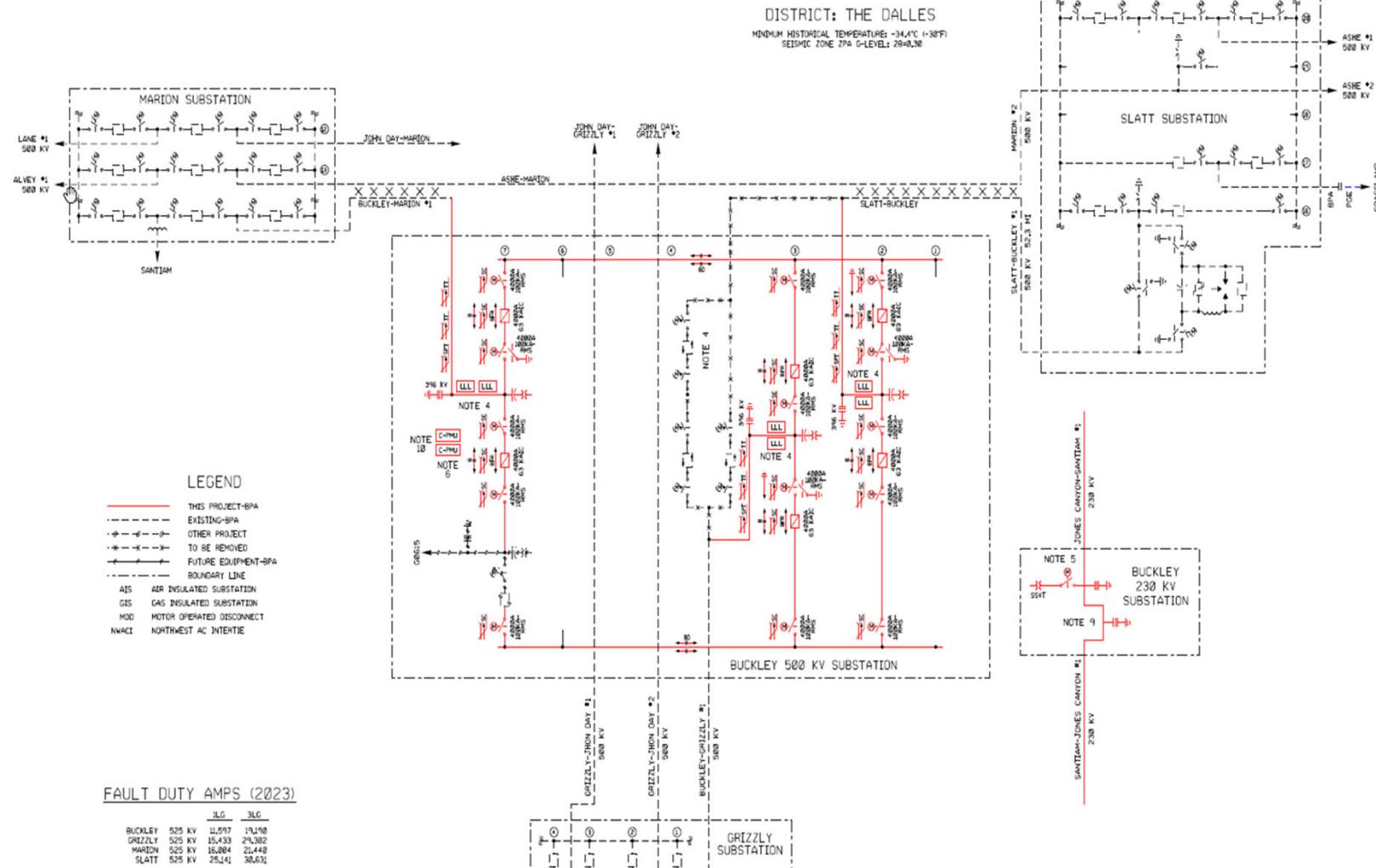
2030

Estimated Cost

\$132,100,000

Significant Planned Projects

Buckley Air Insulated Substation



Significant Planned Projects

Longhorn Substation

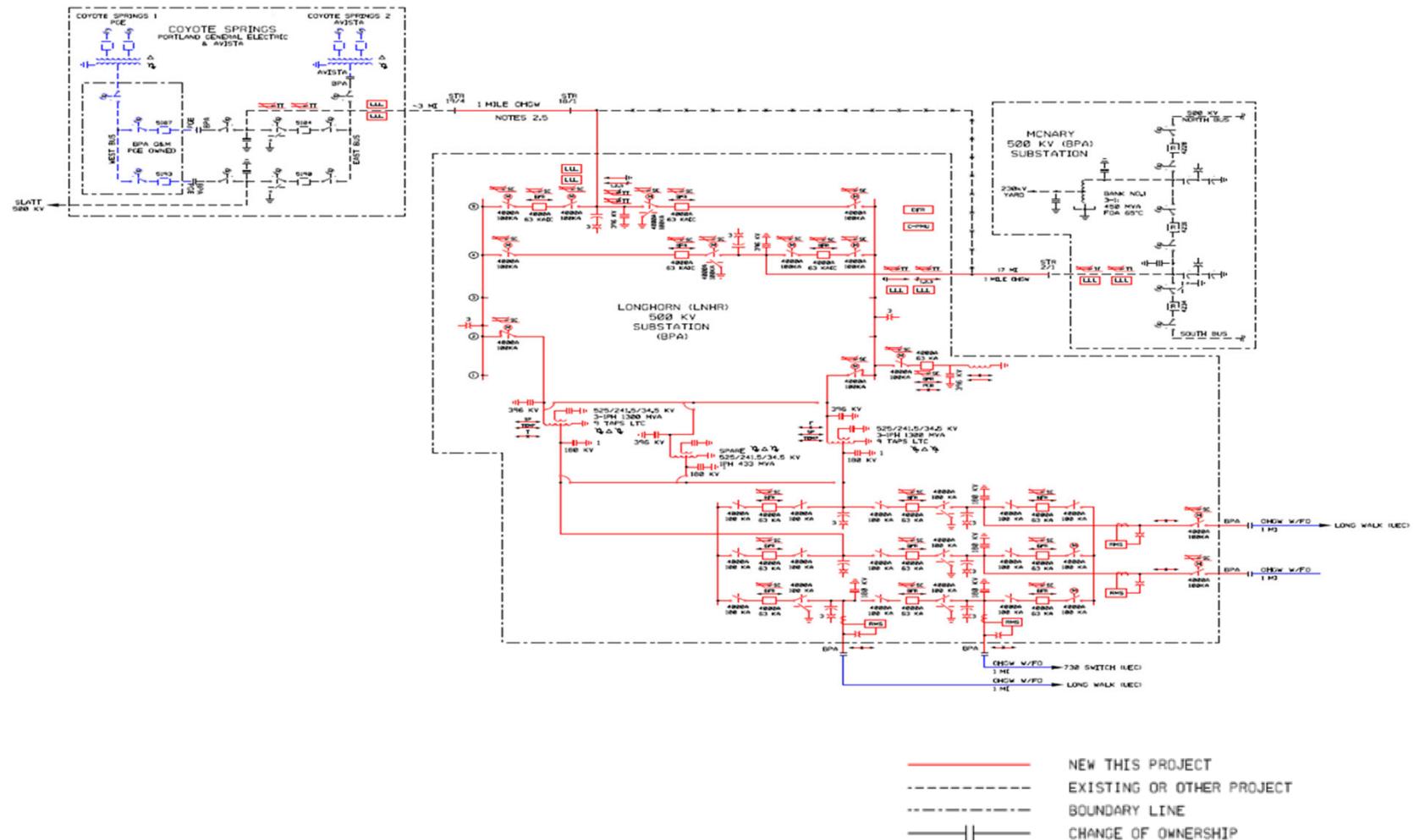
Description

The Longhorn 500 kV substation is a new 500/230 kV substation about 3 miles east of the Coyote Springs generating plant with McNary – Coyote 500 kV line looped in and out. Proposed to interconnect generation and load in the Boardman and Umatilla area. Will also be a west terminus for B2H 500 kV Line project. In construction phase.

Project Status: In-Service

Significant Planned Projects

Longhorn Substation



Significant Planned Projects

Six Mile Canyon Substation

Description

Six Mile Canyon 500 kV substation is a new 500/230 kV substation on mile 56 of the Ashe – Slatt 500 kV line, with the line looped in and out of the substation. Proposed to interconnect UEC load in the West of Boardman area. In scoping phase.

Expected Energization

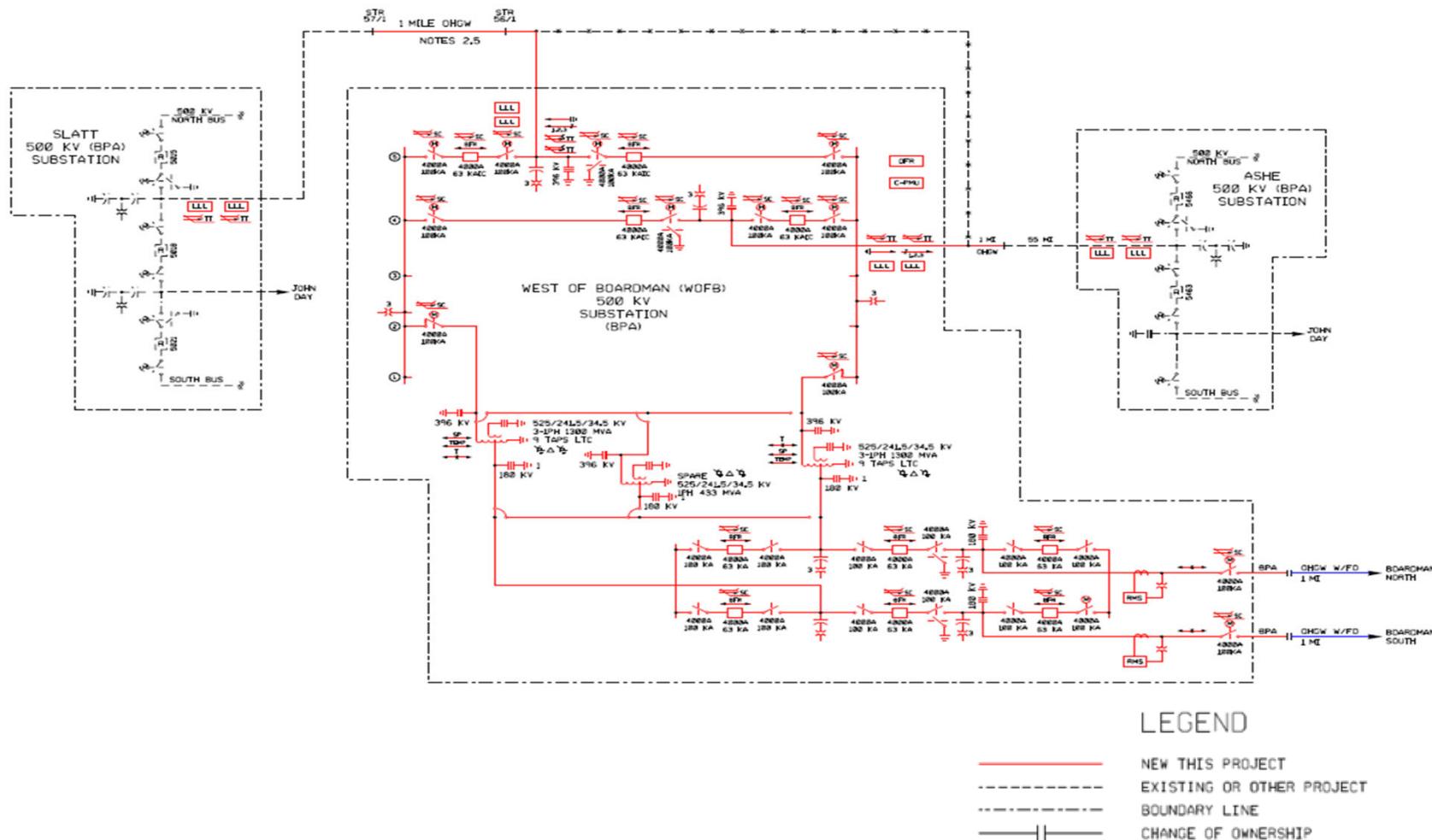
Mid-2028

Estimated Cost

\$284,000,000

Significant Planned Projects

Six Miles Canyon Substation



Significant Planned Projects

Tri-Cities Load Area Projects

Description: **McNary-Paterson Tap** – This project adds a new 115 kV bay at McNary and a parallel 115 kV line from McNary to Paterson Tap (2 miles).

Project Status: In-Service.

Description: **Red Mountain-Horn Rapids 115 kV Line Reconducto**r – This project will reconducto the Red Mountain–Horn Rapids 115 kV section of BPA's Red Mountain–White Bluffs 115 kV transmission line (4 miles).

Project Status: In-Service

Significant Planned Projects

Tri-Cities Load Area Projects – continued

Description: **Richland-Stevens Drive** – This project constructs a new 115 kV line to create a double-circuit from Richland to Stevens Drive switching station (3 miles).

Project Status: This is an approved project in design.

Estimated Schedule: Spring 2027

Estimated Cost: \$12,500,000

Description: **South Tri-Cities Reinforcement** - This project constructs a 500 kV substation on the Ashe-Marion #2 500 kV line with a 500/115 kV transformer, and a 115 kV line to Badger Canyon (17 miles).

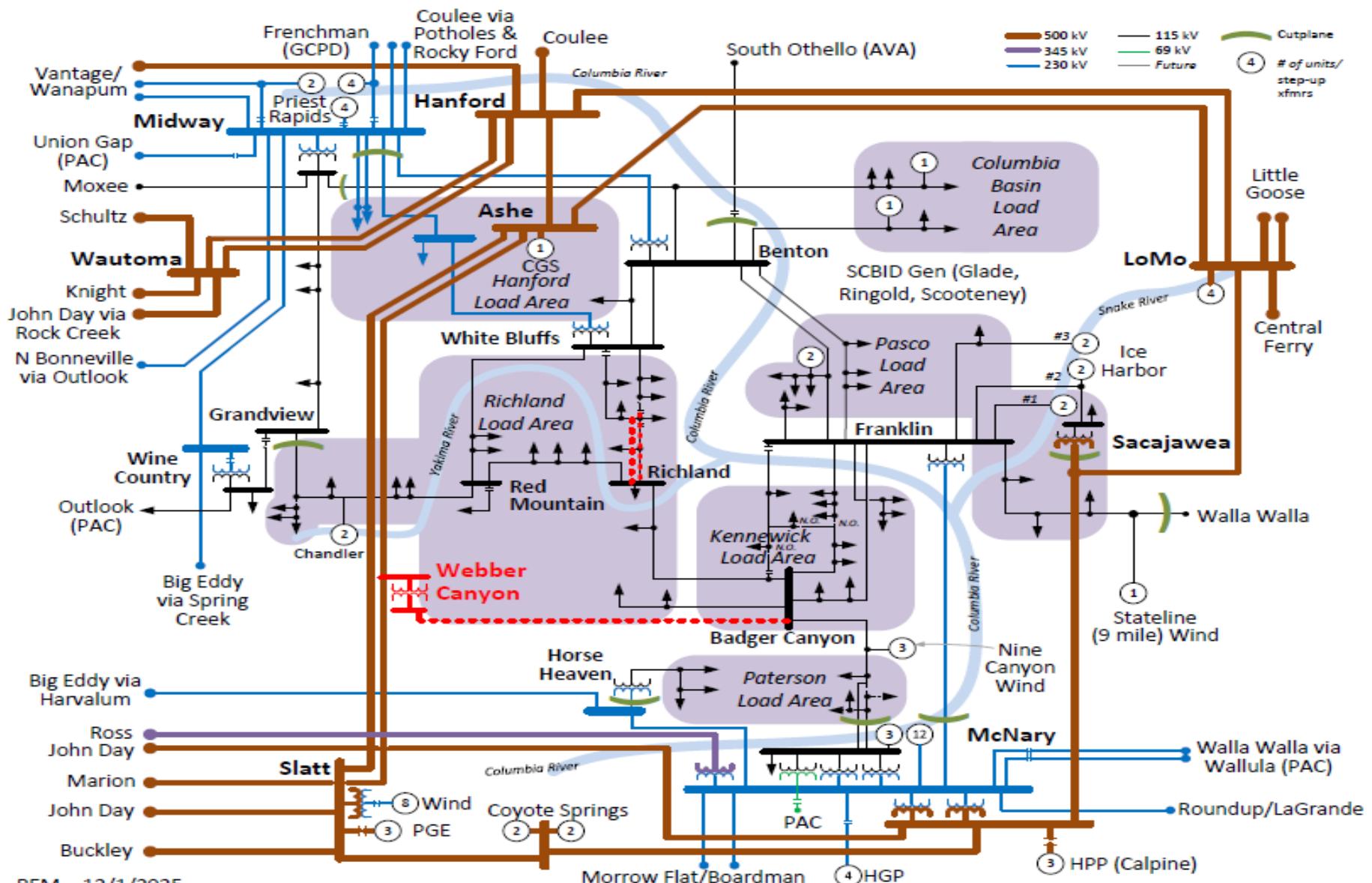
Project Status: Tri-Cities Reinforcement is an approved project in design.

Estimated Schedule: 2027

Estimated Cost: \$107,000,000

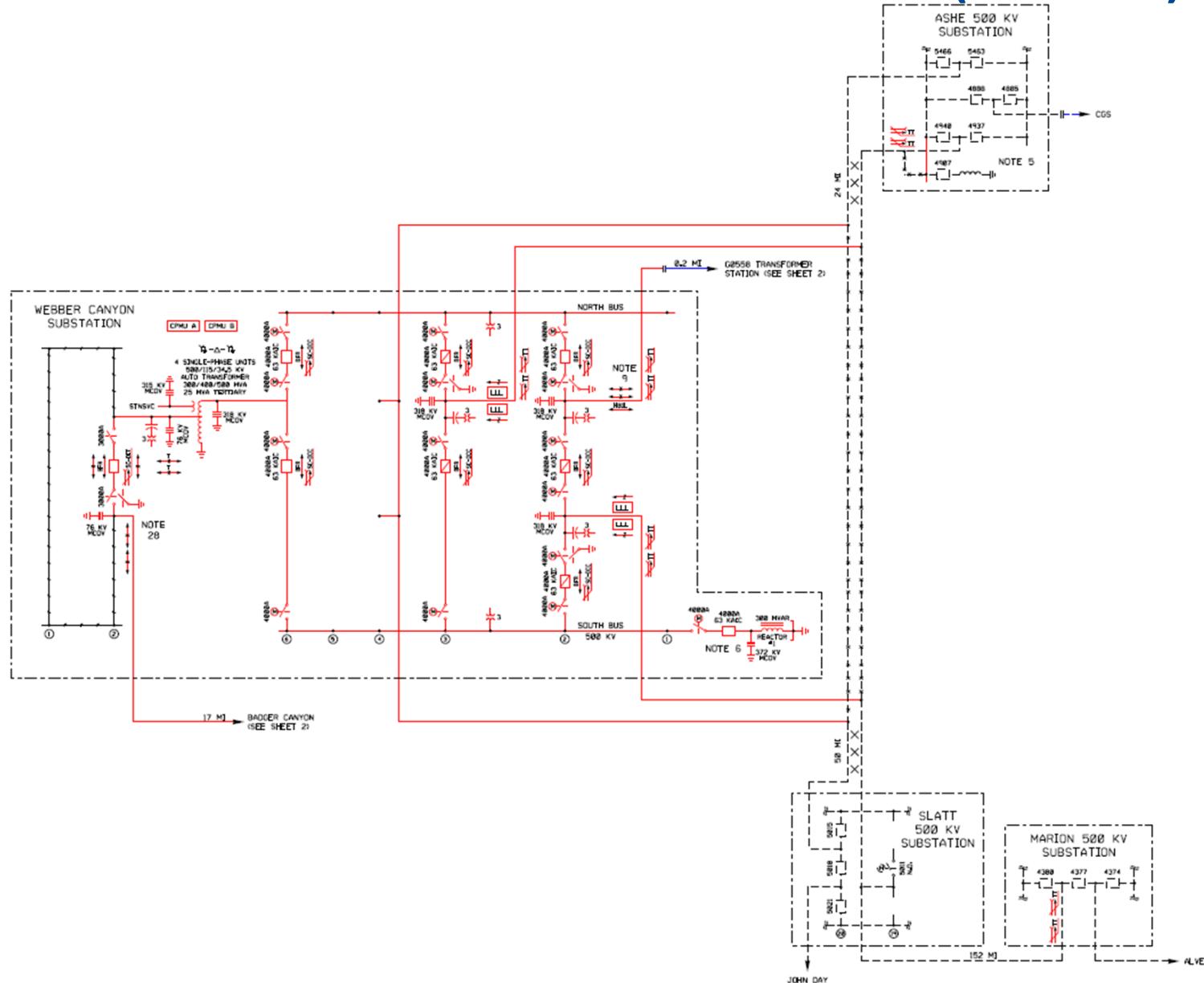
Significant Planned Projects

South Tri-Cities Reinforcement



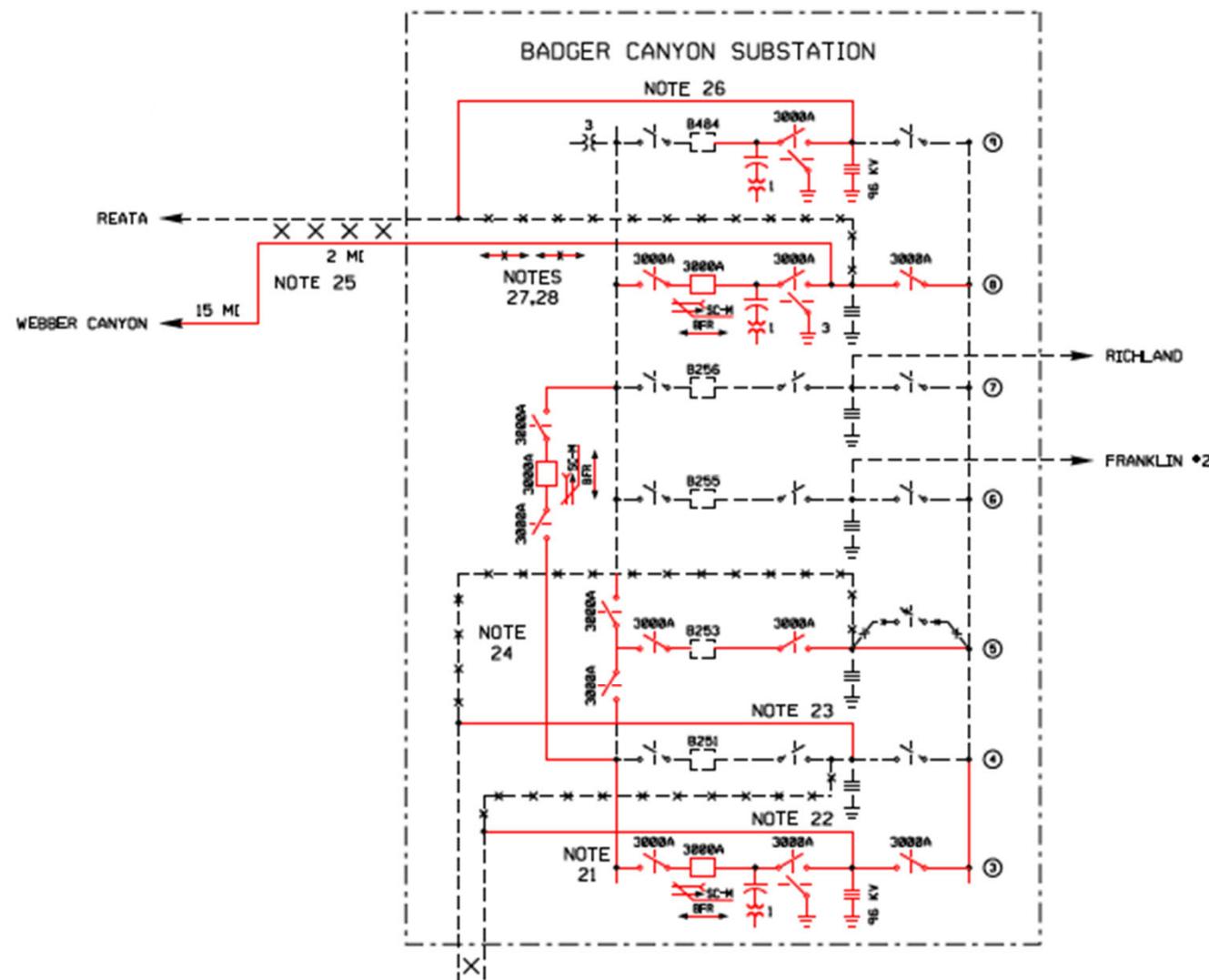
Significant Planned Projects

South Tri-Cities Reinforcement (sheet 1)



Significant Planned Projects

South Tri-Cities Reinforcement (sheet 2)



Next Steps

- **End of December 2025:** Update the BPA Transmission Plan based on the 2025 planning cycle and post to BPA.gov.
- **May 2026:** First 2027 Attachment K Meeting
- **Summer 2026:** Post 2026 System Assessment summary report
- **December 2026:** Second 2026 Attachment K Public Meeting
- **End of December 2026:** Update the BPA Transmission Plan based on the 2026 planning cycle and post to BPA.gov.

Next Step



Questions



Sign up to participate in future meetings or receive additional information by:

Filling out the Participation Request form on BPA's Planning Process website and sending it via e-mail to:

PlanningParticipationRequest@bpa.gov