BPA Attachment K 2027 Planning Process

Planning Meeting I

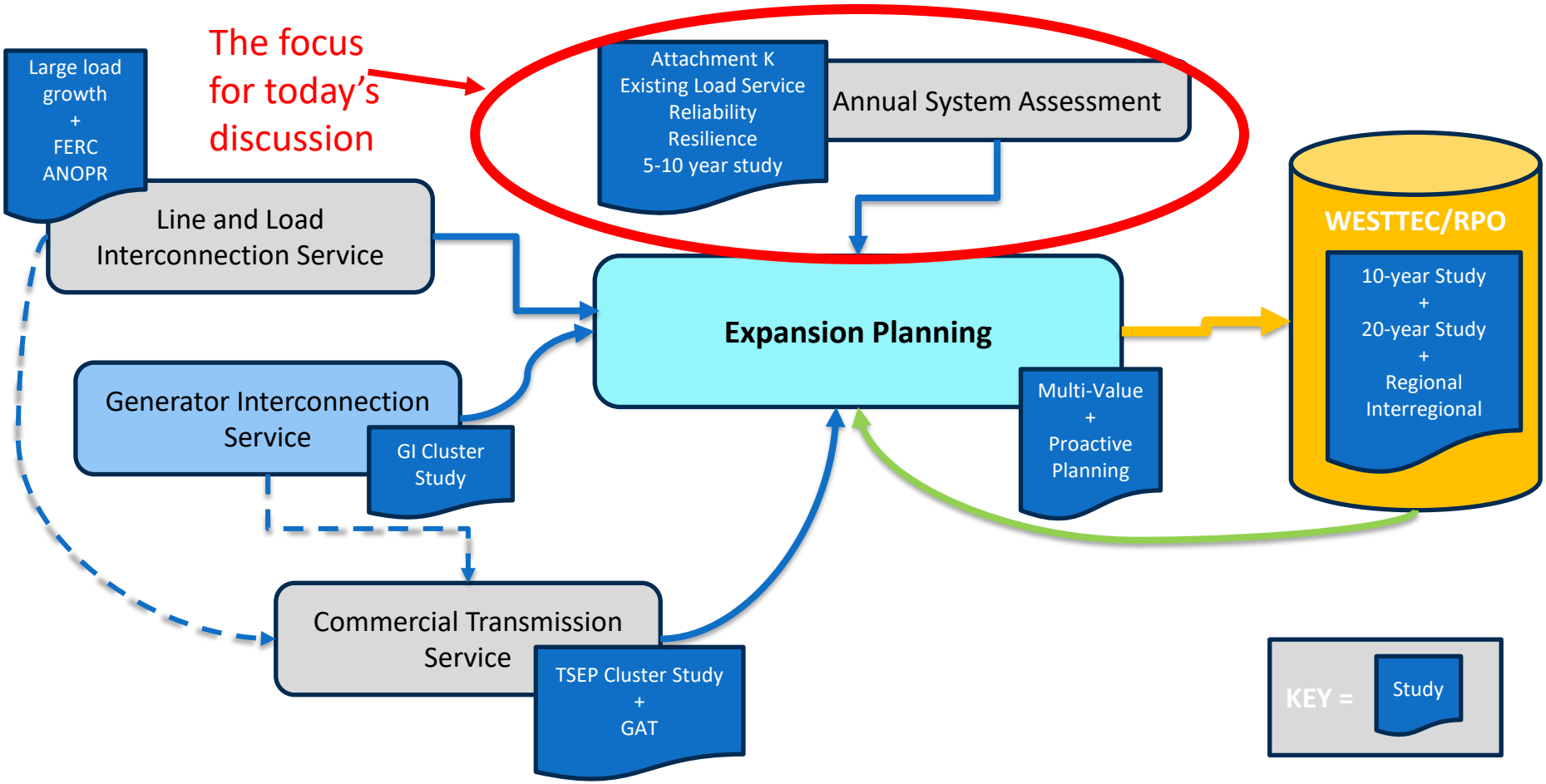
May 12, 2026

1:00 – 3:00 PM

Agenda

- Introductions
- Background
- 2025 BPA Transmission Plan
- BPA's Attachment K Planning Cycle – 2027
- BPA's Attachment K Website – 2027
- Economic Study Requests
- 2027 Planning Assumptions, Methodology, and Criteria
- Next Steps
- Questions

Transmission Expansion



Background

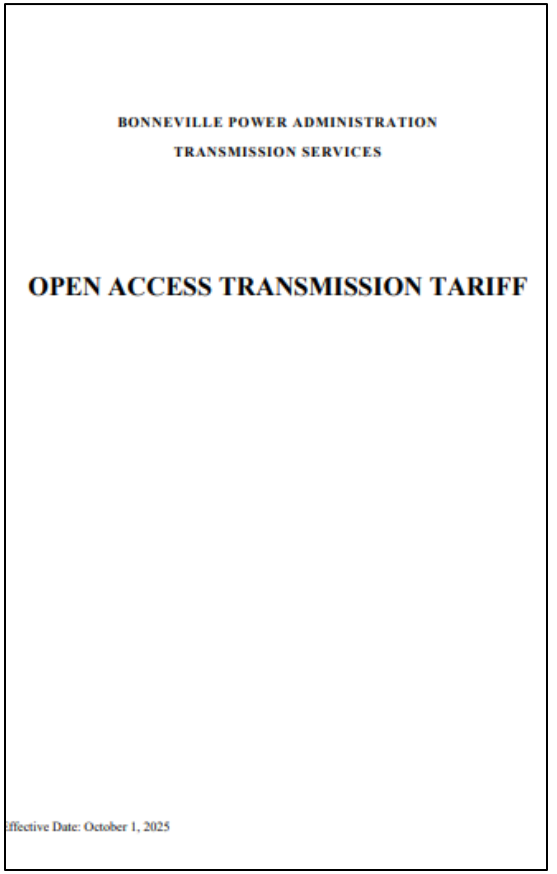
BPA Transmission Plan Objectives

- Cost-effectively meets safety, reliability, economic, environmental, and public policy goals.

Transmission Planning Process

- Conduct through Attachment K ensuring an open, coordinated and transparent approach.

- https://www.bpa.gov/energy-and-services/transmission/tariff



BONNEVILLE POWER ADMINISTRATION
TRANSMISSION SERVICES

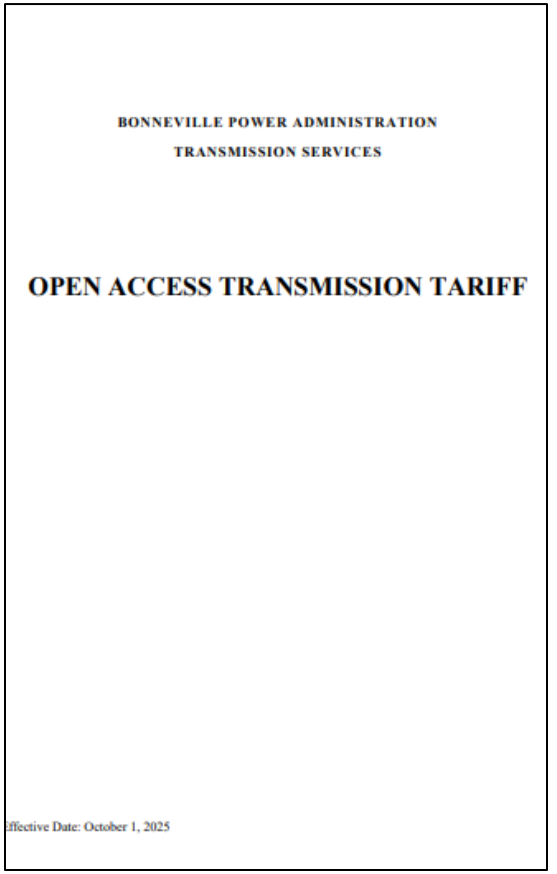
OPEN ACCESS TRANSMISSION TARIFF

ffective Date: October 1, 2025

Background

Attachment K Key Engagement Points:

- Customer Meeting I (Beginning of Annual System Assessment
- Economic Studies (Section III.3)
- Customer Meeting II (Late in the Year)
- Draft BPA Plan (Section III.2.5)
- Final BPA Plan
- The annual system assessment also meets NERC reliability requirements as defined by various TPL standards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2025 BPA Transmission Plan

Overview:

- Transmission Plan summarizes the latest System Assessment study and includes details from the public process

Key Highlights:

- **Location**: Available on the 2025 Planning Cycle page under Reference Information
- **Timeframe**: Covers projects from 2025-2035
- **Capital Expansion Projects**: Focus on growth and improvements

Project Categories:

- **Load Service Areas**
- **Paths and Interties**
- **Generation Interconnections**
- **Line and Load Interconnections**

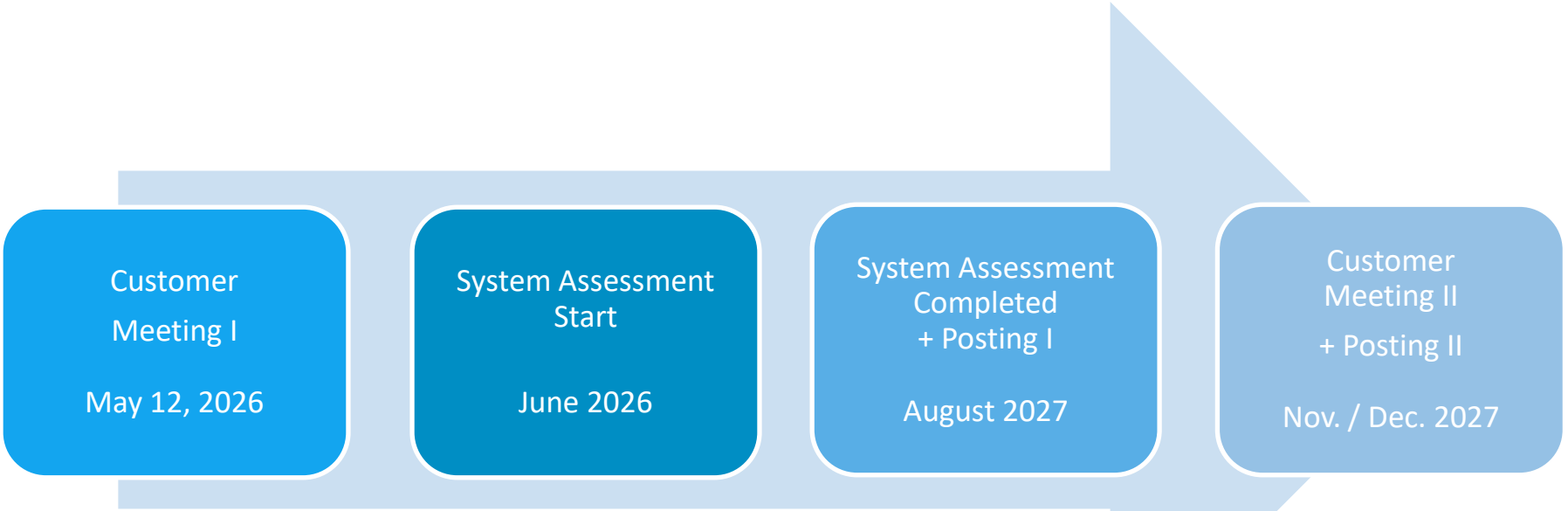
Project Details Include:

- **Description**
- **Purpose**
- **High-level Cost Estimate**
- **Proposed Energization Date**

Upcoming Updates:

- The **BPA 2026 Transmission Plan** will be published at the end of 2026 Attachment K web site
- Watch for a **Tech Forum** announcing the publication

2027 Attachment K Planning Cycle



Posting I

- 2027 System Assessment Summary Report which includes Results and Conceptual Solutions

Customer Meeting II

- Draft Plans of Service and Cost
- Preliminary Economic Study Results

Posting II

- 2027 BPA Transmission Plan

Recurring Annual Process

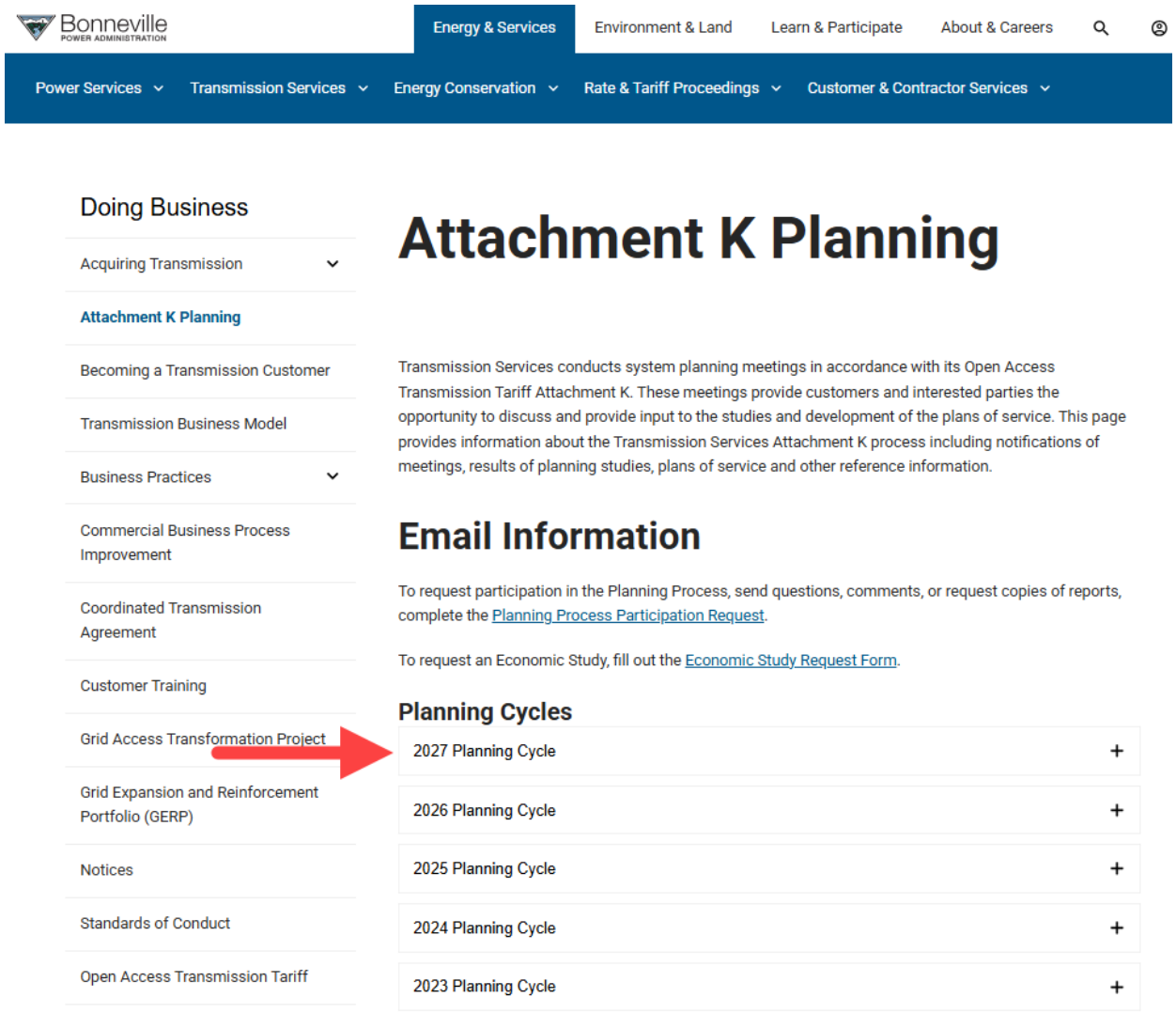
The Attachment K System Assessment provides an engagement process that, due to the annual recurrence, creates an overlap of previous and ensuing engagement processes.

		FY26 Q3	FY26 Q4	FY27 Q1	FY27 Q2	FY27 Q3	FY27 Q4	FY28 Q1	FY28 Q2	FY28 Q3	FY28 Q4	FY29 Q1	FY29 Q2	FY29 Q3	FY29 Q4	FY30 Q1
Description	**Obligation**	**Apr-Jun 26**	**Jul-Sep 26**	**Oct-Dec 26**	**Jan-Mar 27**	**Apr-Jun 27**	**Jul-Sep 27**	**Oct-Dec 27**	**Jan-Mar 28**	**Apr-Jun 28**	**Jul-Sep 28**	**Oct-Dec 28**	**Jan-Mar 29**	**Apr-Jun 29**	**Jul-Sep 29**	**Oct-Dec 29**
2026 Annual System Assessment Attachment K	BPA Tariff NERC TPL NITS Service Contract															
2027 Annual System Assessment Attachment K	BPA Tariff NERC TPL NITS Service Contract															
2028 Annual System Assessment Attachment K	BPA Tariff NERC TPL NITS Service Contract															
2029 Annual System Assessment Attachment K	BPA Tariff NERC TPL NITS Service Contract															

= public meeting

BPA's Attachment K Planning Process Website

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



BPA's 2027 Attachment K Planning Process Website

Planning Cycles

2027 Planning Cycle –

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. To request participation in the Planning Process, complete and email the Participation Request form.

Meetings

May 12, 2026

Agenda

Reference Information

2027 System Assessment Assumption and Methodology

Economic Study Requests

- What is an Economic Study?
  - High level, conceptual study
  - Studies may be requested to address congestion issues
  - More details in Attachment K PART III Section 3
- How are Requests for Economic Studies submitted?
  - PlanningEconomicStudyRequest@bpa.gov
- Requests may be submitted any time before October 31
- BPA may complete two Economic Studies per year at its expense
- GI and LLI studies are often better alternatives to economic studies
- No requests to date

Planning Assumptions and Methodology

- System Reliability Assessments may be based on current or qualified past studies as allowed by the NERC TPL Reliability Standard
  - The 2027 System Assessment will be based on new studies.

Planning Assumptions: Base Cases

Start from WECC-approved cases modified by Western Power Pool

Year	Case	Season	Load Level	Notes
2028	28LSP	Spring	Off-Peak	1 to 2-year horizon
2028	28HW	Winter	Peak	1 to 2-year horizon
2028	28HS	Summer	Peak	1 to 2-year horizon
2032	32HW	Winter	Peak	5-year horizon
2032	32HS	Summer	Peak	5-year horizon
2036	36HW	Winter	Peak	10-year horizon
2036	36HS	Summer	Peak	10-year horizon

Planning Assumptions: Base Cases (cont.)

- Loads in the Northwest Area
  - Peak load forecasts for both winter and summer seasons.
    - Forecasts are provided by customers for the IOUs and larger utilities (represents approximately 75-80% of loads)
    - Forecasts are developed by BPA's Agency Load Forecasting group if not supplied by customers (represents approximately 20-25% of loads)

Planning Assumptions: Base Cases (cont.)

- Resources
  - Model resources with a signed construction agreement or later
  - Model less mature resources as needed to meet high load in the further out time horizons or to model plausible future high system stress scenarios.

Planning Assumptions: Base Cases (cont.)

- Update Northwest Area database
  - Update with the latest seasonal peak and off-peak load forecasts
  - Update with the latest network topology
  - Model future resources as needed, network expansion projects, and known commitments for firm transmission service

Planning Assumptions: Sensitivity Cases

- Other patterns and conditions may be developed as sensitivities based on:
  - Load level or load forecast
  - Expected transfers
  - Expected in-service dates of new or modified Transmission Facilities
  - Reactive resource capability
  - Generation additions, retirements, or other dispatch scenarios
  - Or other system conditions unique to certain geographical areas

Planning Methodology

- Check network topology and load forecast / load growth assumptions for each area of interest.
- Modify base cases to stress the study area and benchmark with historical data.
- Develop sensitivity cases as needed for worst case generation or transfer patterns.
- Perform steady state power flow simulation of all single contingencies and select multiple contingencies.
- Study a large selection of single and multiple contingencies to evaluate voltage stability and transient stability performance.
- Model RAS.

Planning Methodology (continued)

- Identify Potential Problems
  - Compare system performance with NERC and WECC Reliability Standards to determine if there are potential system performance deficiencies.
  - Identify deficient areas for follow up and possible corrective action plans.
  - Problems may include:
    - Steady State - Thermal overloads or over/under voltages
    - Stability
      - Insufficient reactive margin (voltage stability)
      - Large voltage or frequency deviations (transient stability)
- Develop Conceptual Solutions
  - Solutions to mitigate potential system performance deficiencies may include transmission expansion projects, facility upgrades, and/or non-wires solutions (e.g. energy efficiency, distributed generation, redispatch, or demand side management).

Project Implementation Process

Scope Design Build

- Scope
  - One-line diagram with proposed equipment ratings and topology
  - Cost estimates for the conceptual solutions
  - Submit for prioritization of execution resources

Additional scoping as well as design and build processes are being reformed under BPA's "Accelerate Expansion" initiative which is part of Grid Access Transformation (GAT)

Planning Criteria

- Standards and Criteria used for Planning:
  - NERC Standards, WECC and BPA Reliability Planning Criteria
    - NERC (North American Electric Reliability Corporation) TPL-001-5.1 Standard
    - WECC (Western Electricity Coordinating Council) TPL-001-WECC-CRT-4 Regional Reliability Criteria
    - BPA Reliability Criteria

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

WECC

Bonneville
POWER ADMINISTRATION

Next Steps

- 2027 Attachment K cycle
  - Customer Meeting II – Fall 2027
    - Review Results of 2027 System Assessment including draft plans of service
- 2026 Attachment K cycle
  - Posting I – Summer 2026
    - 2026 System Assessment Summary Report which includes Results and Conceptual Solutions
  - Customer Meeting II – Fall 2026
    - Review Results of 2026 System Assessment including draft plans of service
- Sign up to participate in future meetings or receive additional information by:
  - Filling out the Participation Request form on BPA's Planning Process website Attachment K Planning - Bonneville Power Administration and sending it via e-mail to: PlanningParticipationRequest@bpa.gov

Questions?