ADDENDUM F

Puget Sound Energy 2022 General Rate Case – Index of Testimony and Exhibits
UE-22_____ and UG-22_____

1. **Adrian J. Rodriguez**, Senior Vice President-Regulatory and Strategy, introduces PSE and provides an overview of the relief PSE is seeking in this case, why that relief is necessary, and the testimony PSE presents to support that request.

   AJR-1T  Direct Testimony
   AJR-2  Professional Qualifications of Adrian J. Rodriguez

2. **Kazi K. Hasan**, Senior Vice President and Chief Financial Officer for PSE, provides an overview of PSE’s requests for a 9.9 percent return on equity, an equity ratio that increases from 48.5 percent to 50 percent over the course of the multiyear rate plan, and provisional proforma adjustments. He discusses PSE’s financial status following tax reform and the outcome of the 2019 general rate case decision, and steps PSE has taken to control cost.

   KKH-1CT  Direct Testimony
   KKH-2  Professional Qualifications of Kazi K. Hasan

3. **Cara G. Peterman**, Corporate Treasurer for PSE, describes PSE’s requested capital structure and overall rate of return.

   CGP-1CT  Direct Testimony
   CGP-2  Professional Qualifications of Cara G. Peterman
   CGP-3  PSE's Capital Structure, Cost of Capital, and Rates of Return for the Test Year (July 1, 2020, through June 30, 2021)
   CGP-4  PSE's Capital Structure, Cost of Capital, and Rates of Return for the Calendar Year 2021
   CGP-5  PSE's Projected Capital Structure, Cost of Capital, and Rates of Return for the Calendar Year 2022
   CGP-6C  PSE's Requested Capital Structure, Cost of Capital, and Rates of Return for the First Year of the MYRP (Calendar Year 2023)
4. **Stephen J. King**, Director, Controller and Principal Accounting Officer for PSE, presents PSE’s income statement and balance sheet and addresses the processes and procedures PSE has in place to validate the completeness and accuracy of financial information used in the test year for electric and gas revenue requirements. He also discusses the calculation of PSE’s capital structure and provides the Affiliated Interest and Subsidiary Transaction Report.

   SJK-1T  Direct Testimony
   SJK-2  Professional Qualifications
   SJK-3  Allocated Results of Operations
   SJK-4  Balance Sheet
   SJK-5  2020 Affiliated Interest and Subsidiary Transaction Report filed with the Commission on April 30, 2021, and June 30, 2021, six months Affiliated Interest and Subsidiary Transaction report

5. **Joshua A. Kensok**, Director of Financial Planning and Analysis for PSE, explains (1) how PSE’s financial planning system, tools, processes, reporting, and governance operate, (2) how they have performed over time, and (3) why they can be relied upon for developing and administering the multiyear rate plan. He also provides the planned capital spending, plant in service, and O&M spending for each year of the multiyear rate plan.

   JAK-1T  Direct Testimony
   JAK-2  Professional Qualifications
   JAK-3  Actual vs. Forecast Capital Expenditures: 2014-2021
   JAK-4  Ten-Year O&M Expense Growth: 2012-2021
6. **Matthew R. Marcelia**, Director of Tax and Finance IT Projects for PSE, addresses the treatment of accumulated deferred income taxes and excess deferred income taxes in the multiyear rate plan, the restating adjustment for income taxes, and potential tax law changes and their likely impact on the multiyear rate plan.

- MRM-1T Direct Testimony
- MRM-2 Professional Qualifications of Matthew R. Marcelia
- MRM-3 Additional Detail on Book and Tax Depreciation Projections
- MRM-4 Excerpts from 2019 GRC Testimony addressing EDIT

7. **Ann E. Bulkley**, a Senior Vice President for The Brattle Group, presents evidence regarding the appropriate return on equity for PSE and assesses PSE’s proposed capital structure for ratemaking.

- AEB-1T Direct Testimony
- AEB-2 Professional Qualifications of Ann E. Bulkley
- AEB-3 Proxy Group Selection
- AEB-4 Constant Growth Discounted Cash Flow
- AEB-5 Capital Asset Pricing Model
- AEB-6 Capital Asset Pricing Model Historical Beta
- AEB-7 Market Risk Premium
- AEB-8 Risk Premium - Electric and Gas Utilities
- AEB-9 Expected Earnings Analysis
- AEB-10 2021-25 Capital Expenditures
- AEB-11 Proxy Group Regulatory Risk Assessment
- AEB-12 Capital Structure Analysis
8. **Todd A. Shipman, CFA**, a Principal with Utility Credit Consultancy LLC
   
   TAS-1T  Direct Testimony
   
   TAS-2  Professional Qualifications of Todd A. Shipman
   
   TAS-3  Ratings Scales

9. **Ronald J. Roberts**, Vice President of Energy Supply for PSE, discusses PSE’s approach to acquiring electric and natural gas energy resources, the prudency of the Tacoma Liquefied Natural Gas Project, and PSE’s remaining contractual obligations related to the Colstrip Steam Electric Station.
   
   RJR-1CT  Direct Testimony
   
   RJR-2  Professional Qualifications of Ronald J. Roberts
   
   RJR-3  Timeline and Narrative of Development and Construction Activities for the Tacoma LNG Project
   
   RJR-4  Lease Between PSE and the Port of Tacoma
   
   RJR-5C  Cumulative Communications with the Board of Directors Regarding the Tacoma LNG Project
   
   RJR-6  List of Permits Required to Develop and Construct the Tacoma LNG Project
   
   RJR-7C  Operations and Maintenance Contract with NAES
   
   RJR-8C  EPC Contract with Chicago Bridge & Iron
   
   RJR-9  Load Resource Balances
   
   RJR-10  Colstrip Units 1 and 2 Construction and Ownership Agreement
   
   RJR-11  Colstrip Units 1 and 2 Operation and Maintenance Agreement
   
   RJR-12  Colstrip Common Facilities Agreement
   
   RJR-13  Colstrip Units 3 and 4 Ownership and Operating Agreement
   
   RJR-14C  Coal Supply Agreement
   
   RJR-15  Letter from Northwestern Energy re: 2022 Budget
   
   RJR-16  Letter from Owners Requesting Workshops
Joshua J. Jacobs, Vice President of Clean Energy Strategy for PSE, describes PSE’s decarbonization efforts, Beyond Net Zero goals, and 2021 Clean Energy Implementation Plan. He also explains the investments PSE must make to further these efforts.
11. **Paul K. Wetherbee**, Director of Energy Supply Merchant for PSE, testifies regarding power cost issues, including PSE’s projected power costs, how those costs were calculated, new resources included in the power cost projection, and transmission contracts.

PKW-1CT Direct Testimony
PKW-2 Professional Qualifications of Paul K. Wetherbee
PKW-3C Presentation from Collaborative on Hedging and Intra-company Natural Gas Transactions
PKW-4C Summary of PSE’s Proposed Power Costs in Comparison with Power Costs in the 2020 PCORC Final Order
PKW-5C Summary of PSE’s Projected Power Costs for Years Two and Three of the Multi-year Rate Period
PKW-6C Memo Discussing PSE’s Bid Submission in Powerex Request for Proposals
PKW-7C EMC Presentation Regarding PSE’s Bid for the Powerex Summer Peak PPA
PKW-8C Summary of Rate-Year Power Costs by Resource
PKW-9C Monthly Detail of Costs and Energy Produced by Aurora
PKW-10C Summary of Rate Year Costs Not in Aurora
PKW-11C Rate Year Resource Inputs Summary
PKW-12C Report on Energy Imbalance Market Collaborative
PKW-13 Review of PSE’s Proposed EIM Methodology
PKW-14 EIM Greenhouse Gas Net Revenue in Rate Year Power Costs
PKW-15C Summary of Power Costs Using Method Approved in Prior Rate Cases
PKW-16C Gas Mark-to-Model and Open Transport Value
PKW-17C Rate Year Index Price Physical Power Supply Contracts
PKW-18C Monthly Market Gas and Power Prices
PKW-19C Fixed Gas-for-Power Transportation Costs
PKW-20 Report on Wind Collaborative from PSE’s 2019 GRC
PKW-21 Clearwater Wind Integration Study Report
PKW-22C Calculation of Rate Year Day-Ahead Wind Integration Costs
PKW-23C Transmission Contract Costs
PKW-24C Contract Costs of Mid-C Hydro Resources
PKW-25C Distillate Fuel Incremental Costs
PKW-26C Adjustment to Remove Non-Fuel Costs that are Included in Aurora’s Peaker Start Costs
PKW-27C Colstrip Units 3&4 Fixed Fuel Costs
PKW-28 Other Power Costs Chargeable to FERC Account 557
PKW-29 EMC Presentation Regarding Renewal of 400 MW of Mid-C Transmission Contracts
PKW-30 EMC Presentation Regarding Two New 5MW BPA Transmission Contracts

12. **Ryan P. Blood**, Director of Northern Generation with PSE, discusses PSE’s plans to regROUT and modernize the Baker River Hydro generating station.

RPB-1T Direct Testimony
RPB-2 Professional Qualifications of Ryan P. Blood
RPB-3 Board of Consultants’ Report
RPB-4 PSE Jan. 29, 2018 Letter to FERC
RPB-5 FERC March 12, 2018 Response Letter to PSE
RPB-6 Shannon & Wilson Alternative Analysis
RPB-7 HDR Cost and Schedule Risk Analysis
RPB-8 AMC Presentation
13. **Kyle C. Stewart**, Director of Enterprise Risk Management for PSE, testifies regarding risk in western energy markets and explains why PSE must reduce its reliance on bilateral Mid-C trading to meet capacity requirements.

<table>
<thead>
<tr>
<th>KCS-1CT</th>
<th>Direct Testimony</th>
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<tr>
<td>KCS-2</td>
<td>Professional Qualifications of Kyle C. Stewart</td>
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<tr>
<td>KCS-3</td>
<td>2021 PSE Integrated Resource Plan - Chapter 7 Resource Adequacy Analysis</td>
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<td>KCS-4</td>
<td>Ansergy Report - WECC Markets Summer 2021</td>
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<td>KCS-5</td>
<td>PSE 2021 All-Source RFP</td>
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<td>KCS-6C</td>
<td>EMC Market Reliability Risk Mitigation Approval</td>
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<td>KCS-7</td>
<td>Energy Risk Policy</td>
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14. **Janet K. Phelps**, Manager of Energy Analysis - Power Costs for PSE, addresses PSE’s proposal to annually update variable power costs included in the PCA power cost baseline rate and to retain the PCORC to recover in rates fixed costs associated with new and renewed resources.

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<tr>
<th>JKP-1T</th>
<th>Direct Testimony</th>
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<td>JKP-2</td>
<td>Professional Qualifications of Janet K. Phelps</td>
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<td>JKP-3</td>
<td>Historical and Projected Portfolio Capacity 2019-2031</td>
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<td>JKP-4</td>
<td>Generation Resource Start and Expiration Dates vs Dates Included in Rates</td>
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<td>JKP-5</td>
<td>Mid-proceeding Updates to Power Costs in Prior Proceedings (Supplemental and Rebuttal Filings)</td>
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<tr>
<td>JKP-6</td>
<td>Historical Power Cost Adjustment Imbalances</td>
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15. **Mark A. Carlson**, Director of Generation & Natural Gas Storage for PSE, describes the production O&M expenses that PSE presents for recovery in this proceeding, how
PSE determined those expenses, and the purpose behind and projects related to those expenses.

MAC-1CT  Direct Testimony
MAC-2  Professional Qualifications of Mark A. Carlson
MAC-3  Summary of Rate Year Production O&M Expenses
MAC-4C  Colstrip 3&4 Four Year Plan
MAC-5C  Amortization of Major Maintenance
MAC-6  Summary of Fredonia Units 3 and 4 2020 Hot Gas Path Capital Charges
MAC-7C  Contractual Maintenance Agreement–Goldendale, as Amended
MAC-8C  Mint Farm Long Term Service Agreement, as Amended
MAC-9C  Letter of Agreement to Adjust FFH Fee and Maintenance Intervals - Goldendale and Mint Farm CSA’s
MAC-10  Hydro Production O&M License Expense
MAC-11  FERC Order Issuing Baker Operating License
MAC-12  FERC Order Issuing Snoqualmie Operating License
MAC-13C  Wind Production Royalty and Maintenance Fees
MAC-14C  Vestas Contractual Maintenance Agreement –Wild Horse and Hopkins Ridge, as Amended
MAC-15C  Siemens Inc. Service and Maintenance Agreement –Lower Snake River, as Amended

16. **Zacarias C. Yanez**, a Commercial Acquisitions Manager on the Resource Acquisitions Team for PSE, describes the prudence of (1) the Colville Slice Agreement Extension, a three-year extension with Douglas PUD of the agreement with the Colville Tribe for a 5.5 percent share of the output of the Wells Hydroelectric Project, and (2) the Chelan Slice Agreement, an agreement with Chelan PUD for a 5 percent share of the output of the Rocky Reach and Rock Island Hydroelectric Projects.

ZCY-1CT  Direct Testimony
ZCY-2  Professional Qualifications of Zacarias C. Yanez
17. **Colin P. Crowley**, Manager of Resource Acquisition for PSE, describes the 2018 All Resources RFP evaluation and results and requests a determination of prudence for all costs associated with the Clearwater Wind Power Purchase Agreement.

CPC-1HCT Direct Testimony
CPC-2 Professional Qualifications of Colin P. Crowley
CPC-3 2017 IRP Document
CPC-4 2018 All Resources RFP Document
CPC-5HC 2018 All Resources RFP Evaluation Process Document
CPC-6HC Presentations Made to PSE’s Board of Directors Subsequent to Phase 2 of the 2018 All Resources RFP
CPC-7 PSE’s Revised 2019 IRP Progress Report
CPC-8C Clearwater Wind PPA (Project ID #18169)

18. **Dan’l R. Koch**, Vice President of Operations for PSE, provides an overview of PSE’s electric and natural gas operations, how PSE invests in the ongoing operations and maintenance of electric and natural gas infrastructure, how PSE prioritizes natural gas and electric transmission and distribution projects, and the prudency of the Energize Eastside transmission project that PSE seeks recovery for in this proceeding.

DRK-1T Direct Testimony
DRK-2 Professional Qualifications of Dan’l R. Koch
DRK-5 PSE’s Solutions Report (2014)
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<td>DRK-7</td>
<td>E3 Non-wires Alternatives Screening Study (2014)</td>
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<td>DRK-8</td>
<td>Strategen Eastside System Energy Storage Alternatives Screening Study (2015)</td>
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<td>DRK-9</td>
<td>Updated Strategen Eastside System Energy Storage Alternatives Screening Study (2018)</td>
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<td>DRK-10</td>
<td>City of Bellevue Utility System Efficiencies (2015)</td>
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<td>City of Newcastle by MaxETA Energy (June 2020)</td>
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<td>DRK-14</td>
<td>POWER Engineers Underground Feasibility Study (2014)</td>
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<td>EIS Phase I Chapter 2</td>
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<td>DRK-16</td>
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<td>DRK-17</td>
<td>Final EIS Chapter 2</td>
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<td>DRK-18</td>
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<td>Energize Eastside Permits and Authorizations</td>
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<td>PSE’s Corporate Spending Authorization (CSA) for Energize Eastside</td>
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<td>PSE’s Project Implementation Plan (PIP) for Energize Eastside</td>
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<td>Tetra Tech Eastside 230 kV Project Constraint and Opportunity Study (2013)</td>
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<td>DRK-23</td>
<td>Energize Eastside Board Updates</td>
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<td>Energize Eastside EMC Presentations</td>
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<td>DRK-25</td>
<td>Energize Eastside Asset Management Committee Meeting Books</td>
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19. **Catherine A. Koch**, Director of Planning for PSE, describes the planning process PSE uses to optimize investments that benefit customers, PSE’s transmission and distribution work, and storm deferrals. She provides detailed descriptions of PSE’s work focused on customer and public safety, customer growth, grid modernization, and pipeline modernization. She provides testimony on the progress of PSE’s AMI
investment, including the benefits resulting from the investment and requests recovery of the investment and the return on the investment in this case.

CAK-1T Direct Testimony
CAK-2 Professional Qualifications
CAK-3 Customer and Public Safety
CAK-4 Customer Growth and Service Needs
CAK-5 Grid Modernization
CAK-6 Pipeline Modernization
CAK-7 Advanced Metering Infrastructure
CAK-8 Storm Deferral
CAK-9 Operations Training Facility Corporate Spending Authorization
CAK-10 2017 Energy & Utility Training Benchmark Report

20. **Roque B. Bamba**, Director of Project Delivery for PSE, provides an overview of how PSE manages capital infrastructure projects and programs, including how PSE’s approach is designed to ensure PSE invests wisely, how PSE optimizes the benefits from each project or program, and why flexibility is needed for PSE to optimize benefits. He also describes certain major projects in greater detail.

RBB-1T Direct Testimony
RBB-2 Professional Qualifications of Roque B. Bamba
RBB-3 Lake Hills – Phantom Lake 115kV Transmission Line CSA
RBB-4 Bellingham Substation CSA
RBB-5 Sammamish – Juanita 115kV Transmission Line CSA
RBB-6 Electron Heights – Enumclaw 55/115 Conversion CSA
RBB-7 Bainbridge Island CSA
RBB-8 Tono Substation CSA
RBB-9 Lynden Substation CSA
RBB-10 Sedro Woolley - Bellingham #4 115kV Mid-Phase Change Request
21. **Sanem I. Sergici**, a Principal with The Brattle Group, testifies regarding the ways in which PSE is planning to maximize the customer-facing benefits of AMI.

   SIS-1T  Direct Testimony
   SIS-2   Professional Qualifications of Sanem I. Sergici
   SIS-3   Brattle Report on “Maximizing Customer Benefits Through PSE’s Advanced Metering Infrastructure

22. **Margaret F. Hopkins**, Senior Vice President of Shared Services and Chief Information Officer for PSE, provides an overview of PSE’s Information Technology (“IT”) vision and highlights key risks and challenges IT faces in support of corporate strategic efforts to achieve beyond net zero carbon emission by 2045. Her testimony also addresses how IT supports safety, clean energy, and reliability and explains why IT modernization programs are necessary to meet customer expectations, state requirements, and threats to PSE’s infrastructure.

   MFH-1T  Direct Testimony
   MFH-2   Professional Qualifications of Margaret F. Hopkins

23. **Suzanne L. Tamayo**, Director of Information and Technology (“IT”), describes the IT capital investments related to business enablement and systems modernization that PSE seeks recovery for in this case and reports on the status of PSE’s Get to Zero program.

   SLT-1T  Direct Testimony
   SLT-2   Professional Qualifications of Suzanne L. Tamayo
   SLT-3   In-Service Report January 1, 2019 – June 30, 2021
   SLT-4   In Service Report July 1, 2021 – December 2022
   SLT-5   In Service Report January 2023 – December 2024
   SLT-6   Response to the UTC Order 08 GtZ Report
   SLT-7   CSA IWM Electric Operations Project
SLT-8  CSA IWM Gas Operations Project
SLT-9  CSA GTZ Payment Platform Project
SLT-10 CSA Corporate Security WECC CIP-014-2 Mitigation Plan Project
SLT-11 CSA Transport Network Modernization Project
SLT-12 CSA Data Enablement Program
SLT-13 CSA Data Center Refresh Project
SLT-14 CSA ADMS Program

24. **Dawn M. Reyes**, Director of Corporate Share Services for PSE, addresses recent and planned major facility changes and PSE’s procurement processes.

DMR-1T  Direct Testimony
DMR-2  Professional Qualifications of Dawn M. Reyes
DMR-3  Kent Puyallup Property Alternatives
DMR-4  Puyallup Building Layout
DMR-5  Puyallup Site Layout
DMR-6  Kent Building Layout
DMR-7  Kent Site Layout
DMR-8  Puyallup Proforma Design-Bid-Build
DMR-9  Puyallup Proforma Build-to-Suit
DMR-10 Kent Proforma Design-Bid-Build
DMR-11 Kent Proforma Build-to-Suit
DMR-12 Overview of Finance Scenarios
DMR-13 Operations Training Facility Property Alternatives
DMR-14 Purchase and Sale Agreement
DMR-15 Procurement Policies and Procedures
25. **Thomas M. Hunt**, Director of Compensation and Benefits for PSE, describes the elements of PSE’s compensation and benefits programs, the steps PSE takes to compete in a challenging labor market and retain a skilled workforce while controlling wage and benefits costs, and changes in the labor market and to the PSE program design since 2019, including those related to COVID-19.

- TMH-1T Direct Testimony
- TMH-2 Professional Qualifications of Thomas M. Hunt
- TMH-3 Washington Technology Industry Association Report: September 2021
- TMH-4 Summary of Recent Wage Adjustments by Regional Municipal and PUD Organizations
- TMH-5C Projected Wage Increases
- TMH-6 Compensation Discussion and Analysis excerpt from PSE’s 10K filing
- TMH-7C Flex Credit and Medical Cost Trend
- TMH-8C Pension Funding Level
- TMH-9 Pension Funding Guidelines
- TMH-10 Pension Funding Guideline Example
- TMH-11 PSE Goals and Incentive Plan
- TMH-12 National Health Expenditure Projections
- TMH-13 PwC Health Research Institute Medical Cost Trend Report

26. **Jon A. Piliaris**, Director of Regulatory Affairs for PSE, provides an overview of the multiyear rate plan including the development of rates, performance-based elements, customer protections, and the regulatory process. Additionally, he addresses the allocation of Colstrip decommissioning and remediation costs, the treatment of distribution costs related to the Tacoma LNG facility, and a proposal for the removal or modification of certain outdated reporting requirements.

- JAP-1T Direct Testimony
- JAP-2 Professional Qualifications of Jon A. Piliaris
- JAP-3 Planned Filing Schedule During Multiyear Rate Plan
Susan E. Free, Director of Revenue Requirements and Regulatory Compliance for PSE, discusses the revenue requirement calculations for the multiyear rate plan, demonstrates that PSE’s current rates are insufficient for its current operations, presents proposals for rates subject to refund, the review process for property that will become used and useful after initial setting of rates, and the recovery of Colstrip decommissioning and remediation costs. Her testimony also provides an updated baseline rate for PSE’s PCA mechanism for each of the rate years.
28. **William T. Einstein**, Director of New Product Development for PSE, summarizes PSE’s product development process, the ongoing Green Direct customer collaborative work, and the sale of the gas Water Heater Rental service and discontinuation of the gas Conversion Burner Rental service. Additionally, his testimony addresses cost recovery for PSE’s upcoming time-varying rate pilots; PSE’s current electric vehicle pilot products and services; PSE’s transportation electrification plan filing; the Distributed Energy Resources necessary to implement the CEIP; and PSE’s Voluntary Renewable Natural Gas service.

WTE-1CT  Direct Testimony
WTE-2  Professional Qualifications of William T. Einstein
WTE-3  Latest UTC EVSE Stakeholder Report (Jan-Jun 2021)
WTE-4  Renewable Natural Gas Capital Spending Authorization Execution to Close
WTE-5C  Water Heater Sales Price Calculation
29. **Carol L. Wallace**, Director of Customer Solutions for PSE, describes PSE’s efforts to serve the community and customers, including work to assist those impacted by the COVID-19 pandemic, efforts to meet customer expectations for efficient and convenient service, and expanded assistance programs and payment options for customers. Her testimony also provides an overview of how Customer Solutions supports PSE’s clean energy transformation.

   CLW-1T Direct Testimony
   CLW-2 Professional Qualifications of Carol L. Wallace
   CLW-3 PSE LINA Report
   CLW-4 PSE LINA Phase 2 Report
   CLW-5 CSA-Complex Billing Project
   CLW-6 CSA-Arrearage Management Plan Project
   CLW-7 CSA-Bill Discount Rate Project
   CLW-8 CSA-Customer Relationship Management Project
   CLW-9 CSA-Cash Payment Transformation Project
   CLW-10 CSA-Digital Experience 2030 Project
   CLW-11 CSA-Customer Usage Disaggregation and Presentment Project
   CLW-12 CSA-Interactive Bill Redesign Project

30. **Ned W. Allis**, Vice President of Gannett Fleming Valuation and Rate Consultants, LLC, testifies regarding the Depreciation Study that Gannett Fleming prepared for PSE setting forth the calculated annual depreciation accrual rates by account as of June 30, 2021, for all electric, gas and common plant.

   NWA-1T Direct Testimony
   NWA-2 Professional Qualifications of Ned W. Allis
   NWA-3 Depreciation Study Report
   NWA-4 Depreciation Rates for Colstrip Excluding Net Salvage
31. **Mark Newton Lowry**, President of Pacific Economic Group Research LLC, provides testimony and a report that offers a constructive overview of performance-based ratemaking and discusses metrics and other provisions of PSE’s multiyear plan.

   MNL-1T Direct Testimony
   MNL-2 Professional Qualifications of Mark Newton Lowry
   MNL-3 Report on Performance-Based Regulation for Puget Sound Energy
   MNL-4 Details of the Scorecard Metrics
   MNL-5 Details of the Demand Response PIM

32. **Ahmad Faruqui**, a Principal with The Brattle Group, describes the objectives of PSE’s TVR pilot, the time-of-use (“TOU”) rates to be tested in the pilot and how those rates were developed, the pilot design and how it compares to best industry practices, and the evaluation, measurement, and verification process that will be used to evaluate the TOU rates.

   AF-1T Direct Testimony
   AF-2 Professional Qualifications of Ahmed Faruqui
   AF-3 Stakeholder Collaborative Attendance List
   AF-4 First Stakeholder Collaborative Presentation
   AF-5 Second Stakeholder Collaborative Presentation
   AF-6 Third Stakeholder Collaborative Presentation

33. **Birud D. Jhaveri**, Manager of Pricing and Cost of Service for PSE, presents PSE’s electric cost of service study, rate design.

   BDJ-1CT Direct Testimony
   BDJ-2 Professional Qualifications of Birud D. Jhaveri
   BDJ-3 PSE's normalized test year revenue from electric operations
   BDJ-4 PSE’s electric cost of service study
   BDJ-5 Electric rate spread and rate design
   BDJ-6 Lighting Cost of Service & Rate Design
BDJ-7 Proposed Revenue Impacts
BDJ-8 Electric and Gas Decoupling Study
BDJ-9 Electric Decoupling Allowed Revenue Calculation
BDJ-10 Electric FPC Decoupling Allowed Revenue Calculation
BDJ-11 PSE’s 2020 Energy Burden Analysis Report
BDJ-12 Energy Burden and Bill Discount Rate Stakeholder Presentations
BDJ-13 Proposed Bill Discount Rate Rider (new Schedule 129D) Sample Revenue Requirement Calculation
BDJ-14 Residential Electric Block Study
BDJ-15 TVR - Phase One Report
BDJ-16 TVR - Ext. Stakeholder Collaborative No. 1 Survey Feedback
BDJ-17 TVR - Ext. Stakeholder Collaborative No. 2 Survey Feedback
BDJ-18 Proposed Schedule 129 Low-Income Program Funding Increase
BDJ-19 New Electric Tariff Schedules

34. **John D. Taylor**, Managing Partner of Atrium Economics, presents PSE’s natural gas cost of service study and rate design.

   JDT-1T Direct Testimony
   JDT-2 Professional Qualifications of John D. Taylor
   JDT-3 Normalized Revenues from Gas Operations
   JDT-4 PSE Gas Cost of Service Study
   JDT-5 Gas Rate Spread & Rate Design
   JDT-6 Proposed Revenue Impacts
   JDT-7 Gas Decoupling Allowed Revenue Calculation
   JDT-8 Gas Capacity Resource Allocation
35. **Kelly Hui Xu**, a Senior Economic Forecasting Analyst for PSE, addresses PSE’s electric and gas temperature adjustment methodologies and results used to develop the pro forma electric and gas sales.

- **KHX-1T** Direct Testimony
- **KHX-2** Professional Qualifications of Kelly Hui Xu

36. **Dr. Chhandita Das**, a Senior Economic Analyst on the Pricing and Cost of Service Team for PSE, presents the results of PSE’s Class Load Research used to perform its electric cost of service study and rate design.

- **CD-1T** Direct Testimony
- **CD-2** Professional Qualifications of Dr. Chhandita Das
- **CD-3** Load Research Report
- **CD-4** Net Meter Class Loads
- **CD-5** 2017 Class Load Research Sample Design and Deployment
- **CD-6** 2017 Net Metering Load Research Sample Design and Deployment
- **CD-7** Load Research Software Methodology


- **CDP-1T** Direct Testimony
- **CDP-2** Professional Qualifications of Curt D. Puckett
- **CDP-3** Gas Load Research Analysis – Report on July 2020 through June 2021