

EXHIBIT LIST
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Dockets UE-170033 and UG-170034

NUMBER	SPONSOR	A/R	DATE	DESCRIPTION
BENCH EXHIBITS				
BR-1	Public Counsel			<p>A. Supporting Workpapers (WP-1 and WP-2) for Exhibits RCS-3 and RCS-4</p> <p>B. Public Counsel's Proposed Adjustments; RCS-3 Supplemental and RCS-4r Supplemental</p> <p>C. Adjustment Reconciliation to JAP-44</p>
BR-2	PSE			<p>A. Summary of FERC Account 928 for 2009</p> <p>B. Supporting Workpapers for Company Adjustments 13.12 and 11.12</p>
BR-3	Staff			<p>Exhibits in Native Format: BAE-2 BAE-3 BAE-4 (Attachment A) BAE-5 (Attachment A)</p>
PSE WITNESSES				
Roque Bamba, Manager, Major Projects, PSE				
RB-1T	Roque Bamba			<p>Prefiled Direct Testimony of Roque Bamba (15 pages) (1/13/17)</p>
RB-2	Roque Bamba			<p>Professional Qualifications of Roque Bamba</p>
RB-3	Roque Bamba			<p>Photos of Geologic Conditions</p>

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CROSS-EXAMINATION EXHIBITS				
Katherine J. Barnard, Director, Revenue Requirements and Regulatory Compliance, PSE				
<u>KJB-1T</u>	Katherine J. Barnard			Prefiled Direct Testimony of Katherine J. Barnard (85 pages) (1/13/17)
<u>KJB-2</u>	Katherine J. Barnard			Professional Qualifications of Katherine J. Barnard
<u>KJB-3</u>	Katherine J. Barnard			Adj. 3.01: General Rate Increase Adj. 3.02: Pro Forma Cost of Capital Adj. 3.03: Conversion Factor
<u>KJB-4</u>	Katherine J. Barnard			Adj. 4.01, 4.02, 4.03, 4.04, 4.05, 4.06: Statement of Operating Income and Adjustments
<u>KJB-5</u>	Katherine J. Barnard			Periodic Allocated Results of Operations; Balance Sheet; Electric Rate Base; Combined Working Capital; Allocation Methods
<u>KJB-6</u>	Katherine J. Barnard			ELECTRIC Adj. 6.01: Revenues and Expenses Adj. 6.02: Temperature Normalization Adj. 6.03: Pass Through Revenue and Expense Adj. 6.04: Federal Income Tax Adj. 6.05: Tax Benefit of Pro Forma Interest Adj. 6.06: Depreciation Study Adj. 6.07: Normalize Injuries and Damages Adj. 6.08: Bad Debts Adj. 6.09: Incentive Pay Adj. 6.10: D&O Insurance Adj. 6.11: Interest on Customer Deposits

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				Adj. 6.12: Rate Case Expenses Adj. 6.13: Deferred Gains/Losses on Property Sales Adj. 6.14: Property and Liability Insurance Adj. 6.15: Pension Plan Adj. 6.16: Wage Increase Adj. 6.17: Investment Plan Adj. 6.18: Employee Insurance Adj. 6.19: Environmental Remediation Adj. 6.20: Payment Processing Costs Adj. 6.21: South King Service Center Adj. 6.22: Filing Fee and Excise Tax
<u>KJB-7</u>	Katherine J. Barnard			ELECTRIC Adj. 7.01: Power Costs Adj. 7.02: Montana Electric Energy Tax Adj. 7.03: Wild Horse Solar Adj. 7.04: Accounting Standards Codification 815 Adj. 7.05: Storm Damage Adj. 7.06: Regulatory Assets and Liabilities Adj. 7.07: Glacier Battery Storage Adj. 7.08: Energy Imbalance Market Adj. 7.09: Goldendale Capacity Upgrade Adj. 7.10: Mint Farm Capacity Upgrade Adj. 7.11: White River Adj. 7.12: Transfer of Hydro Treasury Grants in Rate base Adj. 7.13: Production Adjustment

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<u>KJB-8</u>	Katherine J. Barnard			Power Cost Baseline Rate
<u>KJB-9</u>	Katherine J. Barnard			Electric CRM Revenue Requirement Model
<u>KJB-10T</u>	Katherine J. Barnard			Prefiled Supplemental Testimony of Katherine J. Barnard (13 pages) (4/3/17)
<u>KJB-11</u>	Katherine J. Barnard			Adj. 11.01: Updated General Rate Increase Adj. 11.02: Updated Pro Forma Cost of Capital Adj. 11.03: Updated Conversion Factor
<u>KJB-12</u>	Katherine J. Barnard			Adj. 12.01, 12.02, 12.03, 12.04, 12.05, 12.06: Updated Statement of Operating Income and Adjustments
<u>KJB-13</u>	Katherine J. Barnard			ELECTRIC – UPDATED Adj. 13.01: Revenues and Expenses Adj. 13.02: Temperature Normalization Adj. 13.03: Pass Through Revenue and Expense Adj. 13.04: Federal Income Tax Adj. 13.05: Tax Benefit of Pro Forma Interest Adj. 13.06: Depreciation Study Adj. 13.07: Normalize Injuries and Damages Adj. 13.08: Bad Debts Adj. 13.09: Incentive Pay Adj. 13.10: D&O Insurance Adj. 13.11: Interest on Customer Deposits Adj. 13.12: Rate Case Expenses Adj. 13.13: Deferred Gains/Losses on Property Sales Adj. 13.14: Property and

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				Liability Insurance Adj. 13.15: Pension Plan Adj. 13.16: Wage Increase Adj. 13.17: Investment Plan Adj. 13.18: Employee Insurance Adj. 13.19: Environmental Remediation Adj. 13.20: Payment Processing Costs Adj. 13.21: South King Service Center Adj. 13.22: Filing Fee and Excise Tax
<u>KJB-14</u>	Katherine J. Barnard			ELECTRIC – UPDATED Adj. 14.01: Power Costs Adj. 14.02: Montana Electric Energy Tax Adj. 14.03: Wild Horse Solar Adj. 14.04: Accounting Standards Codification 815 Adj. 14.05: Storm Damage Adj. 14.06: Regulatory Assets and Liabilities Adj. 14.07: Glacier Battery Storage Adj. 14.08: Energy Imbalance Market Adj. 14.09: Goldendale Capacity Upgrade Adj. 14.10: Mint Farm Capacity Upgrade Adj. 14.11: White River Adj. 14.12: Transfer of Hydro Treasury Grants in Rate base Adj. 14.13: Production Adjustment
<u>KJB-15</u>	Katherine J. Barnard			Updated Power Cost Baseline Rate
<u>KJB-16</u>	Katherine J. Barnard			Revenue Deficiency Calculation; Power Cost Baseline Rate Without Microsoft

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<u>KJB-17T</u>	Katherine J. Barnard			Prefiled Rebuttal Testimony of Katherine J. Barnard (105 pages) (8/9/17)
<u>KJB-18</u>	Katherine J. Barnard			Electric Base Rates General Rate Increase
<u>KJB-19</u>	Katherine J. Barnard			Summary of Electric Proforma and Restating Adjustments and their Impact on the Actual Results of Operations
<u>KJB-20</u>	Katherine J. Barnard			Individual Adjustments – Common Assigned to Electric
<u>KJB-21</u>	Katherine J. Barnard			Individual Adjustment – Electric Only
<u>KJB-22</u>	Katherine J. Barnard			Power Cost Adjustment Mechanism Exhibit A-1 Power Cost Rate
<u>KJB-23</u>	Katherine J. Barnard			Comparison of the Electric Revenue Deficiencies by Adjustment Currently Filed by the Company and Opposing Parties
<u>KJB-24</u>	Katherine J. Barnard			Excerpts from Staff’s Response to PSE DR 27 – Impact on Staff’s Electric Revenue Requirement for Various Corrections
<u>KJB-25</u>	Katherine J. Barnard			Staff’s Response to PSE DR 17 – differences between PSE and Staff Related to Depreciation for Colstrip Units 3 and 4
<u>KJB-26</u>	Katherine J. Barnard			Electric Depreciation Study Adjustment KJB-20 with Colstrip Units 3 and 4 at Varying Probable Retirement Years
<u>KJB-27</u>	Katherine J. Barnard			Excerpts from Public Counsel’s Response to PSE DR 12
<u>KJB-28</u>	Katherine J. Barnard			Demonstration of Alleged Errors in Public Counsel’s Depreciation Study

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				Adjustments
<u>KJB-29C</u>	Katherine J. Barnard			PSE's Response to ICNU DR 58
<u>KJB-30</u>	Katherine J. Barnard			PSE's Response to Staff DR 134
<u>KJB-31</u>	Katherine J. Barnard			Staff's Response to PSE DR 2
<u>KJB-32</u>	Katherine J. Barnard			Staff's Response to PSE DR 9
<u>KJB-33</u>	Katherine J. Barnard			Comparison of PSE's and Staff's 6 Year Average Normal Storm Proposals
<u>KJB-34</u>	Katherine J. Barnard			Work Paper filed by Staff Supporting Exhibit TES-2
<u>KJB-35</u>	Katherine J. Barnard			Impacts on Earnings Sharing for Staff's Proposal on Storm
<u>KJB-36</u>	Katherine J. Barnard			Staff's Response to Public Counsel DRs 2, 4, 6, and 7
<u>KJB-37</u>	Katherine J. Barnard			Extract from Attachment A to PSE's Response to Public Counsel DR 72 Showing Regulatory Lag Associated with the Electric Reliability Plan Absent an Electric Cost Recovery Mechanism
<u>KJB-38</u>	Katherine J. Barnard			Update to Electric Cost Recovery Mechanism Revenue Requirements
<u>KJB-39</u>	Katherine J. Barnard			ICNU's Response to PSE's Response to PSE DR 6
<u>KJB-40</u>	Katherine J. Barnard			Recalculation of Exhibit BGM-6 for a Correction to the Calculation of Carrying Charges
CROSS-EXAMINATION EXHIBITS				
Chun K. Chang, Regulatory Consultant in Pricing and Cost of Service, PSE				
<u>CKC-1T</u>	Chun K. Chang			Prefiled Direct Testimony of Chun K. Chang (15 pages) (1/13/17)
<u>CKC-2</u>	Chun K. Chang			Professional Qualifications of Dr. Chun K. Chang

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<u>CKC-3T</u>	Chun K. Chang			Prefiled Rebuttal Testimony of Chun K. Chang (22 pages) (8/9/17)
<u>CKC-4</u>	Chun K. Chang			PSE's Responses to Staff DRs 6, 9, 11, and 46
<u>CKC-5</u>	Chun K. Chang			PSE's Rate Schedule Model Specifications and Statistical Test Results
CROSS-EXAMINATION EXHIBITS				
Daniel A. Doyle, Senior Vice President and Chief Financial Officer of PSE				
<u>DAD-1T</u>	Daniel A. Doyle			Prefiled Direct Testimony of Daniel A. Doyle (49 pages) (1/13/17)
<u>DAD-2</u>	Daniel A. Doyle			Professional Qualifications of Daniel A. Doyle
<u>DAD-3</u>	Daniel A. Doyle			Summary Decoupling and Rate Plan Analysis, 2013-2016
<u>DAD-4</u>	Daniel A. Doyle			Comparison of Earnings Sharing Level and Opportunity to Earn Authorized Return on Equity
<u>DAD-5</u>	Daniel A. Doyle			Summary of Rate Cases Decided Between 10/1/15 and 9/30/16
<u>DAD-6</u>	Daniel A. Doyle			Equity Ratio from Rate Cases Decided Between 10/1/15 and 9/30/16, Sorted by S&P Credit Rating
<u>DAD-7T</u>	Daniel A. Doyle			Prefiled Rebuttal Testimony of Daniel A. Doyle (64 pages) (8/9/17)
<u>DAD-8</u>	Daniel A. Doyle			Range of States with Decoupling Policies for Electric and Gas Industries
CROSS-EXAMINATION EXHIBITS				

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William T. Einstein, Director of Product Development and Growth				
<u>WTE-1T</u>	William T. Einstein			Prefiled Rebuttal Testimony of William T. Einstein (10 pages) (8/9/17)
<u>WTE-2</u>	William T. Einstein			Professional Qualifications of William T. Einstein
CROSS-EXAMINATION EXHIBITS				
Susan E. Free, Manager of Revenue Requirement, PSE				
<u>SEF-1T</u>	Susan E. Free			Prefiled Direct Testimony of Susan E. Free (34 pages) (1/13/17)
<u>SEF-2</u>	Susan E. Free			Professional Qualifications of Susan E. Free
<u>SEF-3</u>	Susan E. Free			General Rate Increase; Pro Forma Cost of Capital; Conversion Factor
<u>SEF-4</u>	Susan E. Free			Results of Operations; Statement of Operating Income and Adjustments
<u>SEF-5</u>	Susan E. Free			Periodic Allocated Results of Operations; Balance Sheet; Gas Rate Base; Combined Working Capital; Allocation Methods
<u>SEF-6</u>	Susan E. Free			GAS Adj. 6.01: Revenue and Expenses Adj. 6.02: Temperature Normalization Adj. 6.03: Pass Through Revenue and Expense Adj. 6.04: Federal Income Tax Adj. 6.05: Tax Benefit of Pro Forma Interest Adj. 6.06: Depreciation Study Adj. 6.07: Normalize Injuries and Damages Adj. 6.08: Bad Debts

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				<p>Adj. 6.09: Incentive Pay Adj. 6.10: D&O Insurance Adj. 6.11: Interest on Customer Deposits Adj. 6.12: Rate Case Expenses Adj. 6.13: Deferred Gains/Losses on Property Sales Adj. 6.14: Property and Liability Insurance Adj. 6.15: Pension Plan Adj. 6.16: Wage Increase Adj. 6.17: Investment Plan Adj. 6.18: Employee Insurance Adj. 6.19: Environmental Remediation Adj. 6.20: Payment Processing Costs Adj. 6.21: South King Service Center Adj. 6.22: Filing Fee and Excise Tax</p>
<u>SEF-7</u>	Susan E. Free			Cost Recovery Mechanism
<u>SEF-8T</u>	Susan E. Free			Prefiled Supplemental Testimony of Susan E. Free (8 pages) (4/3/17)
<u>SEF-9</u>	Susan E. Free			Updated General Rate Increase; Pro Forma Cost of Capital; Conversion Factor
<u>SEF-10</u>	Susan E. Free			Updated Results of Operations; Statement of Operating Income and Adjustments
<u>SEF-11</u>	Susan E. Free			<p>GAS – UPDATED Adj. 11.01: Revenue and Expenses Adj. 11.02: Temperature Normalization Adj. 11.03: Pass Through Revenue and Expense Adj. 11.04: Federal Income</p>

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				<p>Tax Adj. 11.05: Tax Benefit of Pro Forma Interest Adj. 11.06: Depreciation Study Adj. 11.07: Normalize Injuries and Damages Adj. 11.08: Bad Debts Adj. 11.09: Incentive Pay Adj. 11.10: D&O Insurance Adj. 11.11: Interest on Customer Deposits Adj. 11.12: Rate Case Expenses Adj. 11.13: Deferred Gains/Losses on Property Sales Adj. 11.14: Property and Liability Insurance Adj. 11.15: Pension Plan Adj. 11.16: Wage Increase Adj. 11.17: Investment Plan Adj. 11.18: Employee Insurance Adj. 11.19: Environmental Remediation Adj. 11.20: Payment Processing Costs Adj. 11.21: South King Service Center Adj. 11.22: Filing Fee and Excise Tax</p>
<u>SEF-12T</u>	Susan E. Free			<p>Prefiled Rebuttal Testimony of Susan E. Free (59 pages) (8/9/17)</p>
<u>SEF-13</u>	Susan E. Free			<p>Natural Gas Base Rates General Rate Increase</p>
<u>SEF-14</u>	Susan E. Free			<p>Summary of Natural Gas Proforma and Restating Adjustments and their Impact on the Actual Results of Operations</p>
<u>SEF-15</u>	Susan E. Free			<p>Individual Adjustments –</p>

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				Common Assigned to Natural Gas
<u>SEF-16</u>	Susan E. Free			Individual Adjustment – Natural Gas Only
<u>SEF-17</u>	Susan E. Free			Comparison of the Natural Gas Revenue Deficiencies by Adjustment Currently Filed by PSE and Opposing Parties
<u>SEF-18</u>	Susan E. Free			Excerpts from Staff’s Response to PSE DR 27 – Impact on Staff’s Natural Gas Revenue Requirement for Various Corrections
<u>SEF-19</u>	Susan E. Free			Excerpts from Staff’s Response to PSE DR 28 – Impact on Commission Staff’s Working Capital Calculation for Various Corrections
<u>SEF-20</u>	Susan E. Free			Comparison of Test Year, Allowed and Total Rate Case Costs Per Proceeding
<u>SEF-21</u>	Susan E. Free			2014 System Entry to Transfer Kent Property from Utility to Non-utility Property at Time of Sale
<u>SEF-22</u>	Susan E. Free			System Entries for Deferred Gain on Property Sales
<u>SEF-23</u>	Susan E. Free			Comparison of PSE’s and Staff’s methods for Allocating Unassigned Recoveries to Specific Sites for Environmental Remediation
<u>SEF-24</u>	Susan E. Free			Determination of PSE’s Electric Environmental Remediation Adjustment Utilizing the Low Range of Future Cost Estimates
<u>SEF-25</u>	Susan E. Free			Determination of PSE’s Gas Environmental Remediation Adjustment Utilizing the Low Range of Future Cost Estimates

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<u>SEF-26</u>	Susan E. Free			Attachment A to PSE's First Supplemental Response to Staff DR 269
<u>SEF-27</u>	Susan E. Free			Transmittal Letter and Report for WNG's September 30, 1994 Environmental Remediation Quarterly Report filed December 23, 1994
<u>SEF-28</u>	Susan E. Free			Calculation of Working Capital – Summary
<u>SEF-29</u>	Susan E. Free			Calculation of Working Capital – Detail
<u>SEF-30</u>	Susan E. Free			Staff's Response to PSE DR 11
<u>SEF-31</u>	Susan E. Free			Staff's Response to PSE DRs 8 and 14 and a Presentation of How to Adjust for Working Capital Outside of the Working Capital Exhibit
CROSS-EXAMINATION EXHIBITS				
Booga K. Gilbertson, Senior Vice President, Operations, PSE				
<u>BKG-1T</u>	Booga K. Gilbertson			Prefiled Direct Testimony of Booga K. Gilbertson (38 pages) (1/13/17)
<u>BKG-2</u>	Booga K. Gilbertson			Professional Qualifications of Booga K. Gilbertson
<u>BKG-3</u>	Booga K. Gilbertson			Capital Expenditures by Category (1/11-9/16)
CROSS-EXAMINATION EXHIBITS				
Thomas M. Hunt, Director of Compensation and Benefits, PSE				
<u>TMH-1T</u>	Thomas M. Hunt			Prefiled Direct Testimony of Thomas M. Hunt (27 pages) (1/13/17)
<u>TMH-2</u>	Thomas M. Hunt			Professional Qualifications of Thomas M. Hunt

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<u>TMH-3C</u>	Thomas M. Hunt			***CONFIDENTIAL*** Historic Merit Average Increases
<u>TMH-4</u>	Thomas M. Hunt			PSE Executive Compensation
<u>TMH-5C</u>	Thomas M. Hunt			***CONFIDENTIAL*** Health Benefit Plans History (2012-2016) Monthly Flex Credits and Medical Plan Costs
<u>TMH-6C</u>	Thomas M. Hunt			***CONFIDENTIAL*** PSE Retirement Plan – Monthly Assets and PBO from 1/2012 to 9/30/16
<u>TMH-7C</u>	Thomas M. Hunt			***CONFIDENTIAL*** Retirement Plan for Employees of Puget Sound Energy Ten Year Deterministic Projection (2016-2025) Baseline: 2016 Preliminary Valuation Results
<u>TMH-8</u>	Thomas M. Hunt			PSE 2016 Goals and Incentive Plan
CROSS-EXAMINATION EXHIBITS				
Catherine A. Koch, Director, Planning, PSE				
<u>CAK-1TC</u>	Catherine A. Koch			***CONFIDENTIAL*** Confidential Prefiled Direct Testimony of Catherine A. Koch (20 pages) (1/13/17)
<u>CAK-2</u>	Catherine A. Koch			Professional Qualifications of Catherine A. Koch
<u>CAK-3C</u>	Catherine A. Koch			***CONFIDENTIAL*** 2017 and 2018 Electric Reliability Plan
<u>CAK-4T</u>	Catherine A. Koch			Prefiled Rebuttal Testimony of Catherine A. Koch (43

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				pages) (8/19/17)
<u>CAK-5</u>	Catherine A. Koch			Ernest Orlando Lawrence Berkeley National Laboratory Updated Value of Service Reliability Estimates for Electric Utility Customers in the United States (Jan. 2015)
<u>CAK-6</u>	Catherine A. Koch			PSE Response to Public Counsel DR 25
<u>CAK-7</u>	Catherine A. Koch			PSE Response to ICNU DR 24
<u>CAK-8</u>	Catherine A. Koch			Ardmore Project Chronology
CROSS-EXAMINATION EXHIBITS				
Brandon J. Lohse, Corporate Treasurer for PSE				
<u>BJL-1T</u>	Brandon H. Lohse			Prefiled Direct Testimony of Brandon H. Lohse (21 pages) (1/13/17)
<u>BJL-2</u>	Brandon H. Lohse			Professional Qualifications of Brandon H. Lohse
<u>BJL-3</u>	Brandon H. Lohse			Utility Capital Structure Cost of Capital and Rate of Return; Utility Capital Structure Calculation; Cost of Short-Term Debt; Commitment Fees; Amortization of Short-Term Debt Issue Costs; Cost of Long Term Debt; Schedule of Annual Charges on Reacquired Debt
<u>BJL-4</u>	Brandon H. Lohse			Utility Capital Structure Proposed Cost of Capital and Rate of Return Requested for Rate Year 2018; Requested Cost of Debt; Short Term Debt Interest and Fees Details; Interest Calculation on \$250M Jr. Subordinated Security; Schedule of Annual Charges on Reacquired Debt

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<u>BJL-5</u>	Brandon H. Lohse			Bonds Callable as of 9/30/16
<u>BJL-6</u>	Brandon H. Lohse			S&P Global Ratings Direct Summary for PSE
<u>BJL-7</u>	Brandon H. Lohse			Moody's Investors Service Credit Opinion on PSE, 8/5/16
CROSS-EXAMINATION EXHIBITS				
Matthew R. Marcellia, Controller and Principal Accounting Officer				
<u>MRM-1T</u>	Matthew R. Marcellia			Prefiled Rebuttal Testimony of Matthew R. Marcellia (39 pages) (8/9/17)
<u>MRM-2</u>	Matthew R. Marcellia			Professional Qualifications of Matthew R. Marcellia
<u>MRM-3</u>	Matthew R. Marcellia			Colstrip Units 1 and 2 Historical Depreciation Rates
CROSS-EXAMINATION EXHIBITS				
George E. Marshall, Manager, Transmission Policy and Contracts				
<u>GEM-1T</u>	George E. Marshall			Prefiled Rebuttal Testimony of George E. Marshall (18 pages) (8/9/17)
<u>GEM-2</u>	George E. Marshall			Professional Qualifications of George E. Marshall
<u>GEM-3</u>	George E. Marshall			PSE Response to NWEA/RNW/NRDC DR 14
CROSS-EXAMINATION EXHIBITS				
David E. Mills, Vice President, Energy Operations for PSE				
<u>DEM-1T</u>	David E. Mills			Prefiled Direct Testimony of David E. Mills (29 pages) (1/13/17, revised 2/3/17)
<u>DEM-2</u>	David E. Mills			Professional Qualifications of David E. Mills
<u>DEM-3</u>	David E. Mills			Benefits Analysis of PSE's Participation in the ISO

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				Energy Imbalance Market
<u>DEM-4T</u>	David E. Mills			Prefiled Rebuttal Testimony of David E. Mills (8 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
Joel L. Molander, Director, IT Business Partner Engagement, PSE				
<u>JLM-1T</u>	Joel L. Molander			Prefiled Direct Testimony of Joel L. Molander (13 pages) (1/13/17)
<u>JLM-2</u>	Joel L. Molander			Professional Qualifications of Joel L. Molander
<u>JLM-3</u>	Joel L. Molander			South King Complex Strategy Assumptions, Analysis and Opinion Memorandum RE: PSE Strategic Real Estate Options, Prepared by CBRE Brokerage
<u>JLM-4</u>	Joel L. Molander			South King Complex Pro Forma Summary
CROSS-EXAMINATION EXHIBITS				
Roger A. Morin, Emeritus Professor of Finance at Robinson College of Business, Georgia State University				
<u>RAM-1T</u>	Roger A. Morin			Prefiled Direct Testimony of Roger A. Morin (58 pages) (1/13/17)
<u>RAM-2</u>	Roger A. Morin			Professional Qualifications of Roger A. Morin
<u>RAM-3</u>	Roger A. Morin			Investment-Grade Dividend-Paying Combination Gas and Electric Utilities Covered in Value Line's Electric Utility Industry Group
<u>RAM-4</u>	Roger A. Morin			Proxy Group for PSE
<u>RAM-5</u>	Roger A. Morin			Combination Electric and

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				Gas Utilities DCF Analysis Value Line Growth Rates
<u>RAM-6</u>	Roger A. Morin			Combination of Electric and Gas Utilities DCF Analysis Analysts' Growth Forecasts
<u>RAM-7</u>	Roger A. Morin			Combination Electric and Gas Beta Estimates
<u>RAM-8</u>	Roger A. Morin			CAPM, Empirical CAPM
<u>RAM-9</u>	Roger A. Morin			2015 Utility Industry Historical Risk Premium
<u>RAM-10</u>	Roger A. Morin			Equity Risk Premium – Treasury Bond
<u>RAM-11</u>	Roger A. Morin			Proxy Group for PSE Common Equity Ratios
<u>RAM-12T</u>	Roger A. Morin			Prefiled Rebuttal Testimony of Roger A. Morin (97 pages) (8/9/17)
<u>RAM-13</u>	Roger A. Morin			PSE's Response to Public Counsel DR 333
CROSS-EXAMINATION EXHIBITS				
Michael Mulally, Manager, Business Initiatives, Strategic Initiatives Department				
<u>MM-1THC</u>	Michael Mulally			*** HIGHLY CONFIDENTIAL *** Confidential Prefiled Direct Testimony of Michael Mulally (38 pages) (1/13/17)
<u>MM-2</u>	Michael Mulally			Professional Qualifications of Michael Mulally
<u>MM-3</u>	Michael Mulally			RFP City of Buckley Sale of Natural Gas Utility
<u>MM-4C</u>	Michael Mulally			***CONFIDENTIAL*** Buckley Natural Gas System RFP Overview
<u>MM-5</u>	Michael Mulally			June 13, 2013, Letter to City of Buckley from PSE RE:

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				RFPs City of Buckley Sale of Natural Gas Utility
<u>MM-6</u>	Michael Mulally			October 15, 2013, Letter to PSE from GeoEngineers RE: Historic Research to Identify Properties of Potential Environmental Concern in Close Proximity to City of Buckley's Natural Gas Distribution Lines
<u>MM-7</u>	Michael Mulally			Assignment Agreement Between City of Buckley and PSE
<u>MM-8</u>	Michael Mulally			Firm Natural Gas Service Agreement Between City of Enumclaw and PSE, Docket UG-140088
<u>MM-9C</u>	Michael Mulally			***CONFIDENTIAL*** Memorandum RE: Buckley Valuation Method with Appendices (revised 1/27/17)
<u>MM-10HC</u>	Michael Mulally			*** HIGHLY CONFIDENTIAL *** Energy Storage EPC Scoring Matrix – Clean Energy Fund Proposal (October 2014)
<u>MM-11</u>	Michael Mulally			PSE IRP Electric Analysis
<u>MM-12C</u>	Michael Mulally			***CONFIDENTIAL*** New Douglas PUD (Wells Project) PPA, EMC Informational 4/16/15 Prepared by Brennan Mueller, Energy Contract Administrator
CROSS-EXAMINATION EXHIBITS				
Jon A. Piliaris, Manager of Pricing and Cost of Service, PSE				
<u>JAP-1T</u>	Jon A. Piliaris			Prefiled Direct Testimony of

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				Jon A. Piliaris (159 pages) (1/13/17)
<u>JAP-2</u>	Jon A. Piliaris			Professional Qualifications of Jon A. Piliaris
<u>JAP-3</u>	Jon A. Piliaris			Proforma Delivered Sales Electric Rates
<u>JAP-4</u>	Jon A. Piliaris			Gas Adjustments to Volume (Therms) by Rate Schedule
<u>JAP-5C</u>	Jon A. Piliaris			***CONFIDENTIAL*** Peak Credit Method for 2014 Filing, Company Proposal
<u>JAP-6C</u>	Jon A. Piliaris			***CONFIDENTIAL*** Peak Credit Method with Updated Data, Company Proposal
<u>JAP-7</u>	Jon A. Piliaris			Electric Cost of Service Summary
<u>JAP-8</u>	Jon A. Piliaris			2017 Gas Cost of Service Study Proposed Test Year Without Gas
<u>JAP-9</u>	Jon A. Piliaris			2017 Gas Cost of Service Study Proposed Test Year With Gas
<u>JAP-10</u>	Jon A. Piliaris			2017 Gas Account Detail by Classification and Rate Class
<u>JAP-11</u>	Jon A. Piliaris			2017 Gas Cost of Service Study Account Inputs
<u>JAP-12</u>	Jon A. Piliaris			2017 Gas Cost of Service Study External Allocators
<u>JAP-13</u>	Jon A. Piliaris			Allocation of Account 376 Distribution Mains
<u>JAP-14</u>	Jon A. Piliaris			Summary of Gas Cost Allocation Proforma Test Year with Gas
<u>JAP-15</u>	Jon A. Piliaris			PSE Non-Lighting Tariffed Rate Components; Lighting Tariffed Rate Components; Summary Rate Spread; Summary of Proposed Rate

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				Design Present and Proposed Rates; Estimated Effect of Proposed Rate Base Increase on Revenues from Electric Sales; Residential Rate Design; Secondary Voltage Rate Design; Primary Voltage Rate Design; Campus Rate Design; High Voltage Rate Design; Transportation and Wholesale for Resale; Area and Street Lighting Rate Design
<u>JAP-16</u>	Jon A. Piliaris			Proposed Electric Schedules 7, 7A, 24-26, 29, 31, 35, 40, 43, 46, 49, 50-55, 57, 58, 95, 141, 142, 149, 448, 458, and 459
<u>JAP-17</u>	Jon A. Piliaris			Survey of Basic Charges of US Electric Utilities
<u>JAP-18</u>	Jon A. Piliaris			Schedule 40 Coincident Factors by Customer
<u>JAP-19</u>	Jon A. Piliaris			GRC Rate Impacts
<u>JAP-20</u>	Jon A. Piliaris			Lighting Schedules, Classification of Lighting Costs
<u>JAP-21</u>	Jon A. Piliaris			Development of Unitized Lighting Costs
<u>JAP-22</u>	Jon A. Piliaris			Summary of Allocated Costs
<u>JAP-23</u>	Jon A. Piliaris			Lighting Revenues Summary Base Rate vs. Proposed 2017 GRC
<u>JAP-24</u>	Jon A. Piliaris			Allocation of Revenue Deficiency to Rate Classes at Existing PGA Allocation
<u>JAP-25</u>	Jon A. Piliaris			Current and Proposed Natural Gas Tariff Rules 21, 23, and 29, Schedules 16, 23, 31, 31T, 41, 41T, 53, 85, 85T, 185T, 86, 86T, 87, 87T, 141, Supplemental Schedule 142

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<u>JAP-26</u>	Jon A. Piliaris			Survey of Residential Monthly Minimum Charges of Gas Utilities
<u>JAP-27</u>	Jon A. Piliaris			2017 Gas Cost of Service Study Procurement Charge Calculation Proforma Test Year Without Gas
<u>JAP-28</u>	Jon A. Piliaris			2017 Gas Proposed Rates, Estimated Combined Impact on Total Bills
<u>JAP-29</u>	Jon A. Piliaris			PSE Electric and Natural Gas Evaluation: Three Years of Decoupling; Independent Third-Party Evaluation of PSE's Decoupling Mechanisms, Prepared by H. Gil Peach & Associates, Forefront Economics, Inc., and Joseph Associates, Inc. (12/31/16)
<u>JAP-30</u>	Jon A. Piliaris			Electric Decoupling Mechanism Development of Decoupled Delivery and Power Cost Revenue by Decoupling Group; Development of Allowed Delivery Revenue & Fixed Power Cost Revenue Per Customer; Development of Delivery Revenue & Fixed Power Cost Per Unit Rates; Development of Delivery Revenue Per Unit Rates; Development of Monthly Allowed Delivery Revenue Per Customer; Development of Monthly Allowed Fixed Power Cost Revenue Per Customer; Delivery Revenue Deferral and Amortization Calculations; Fixed Power Cost Deferral and

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				Amortization Calculations
<u>JAP-31</u>	Jon A. Piliaris			Gas Decoupling Mechanism Development of Decoupled Revenue by Decoupling Group; Development of Allowed Delivery Revenue Per Customer; Development of Delivery Revenue Per Unit Rates; Development of Monthly Allowed Delivery Revenue Per Customer; Delivery Revenue Deferral and Amortization Calculations
<u>JAP-32</u>	Jon A. Piliaris			Electric CRM Revenue Requirement Model; Calculation of Schedule 149 Electric Rider Rates
<u>JAP-33C</u>	Jon A. Piliaris			***CONFIDENTIAL*** Electric Decoupling Mechanism Development of Decoupled Delivery and Power Cost Revenue by Decoupling Group
<u>JAP-34T</u>	Jon A. Piliaris			Prefiled Supplemental Testimony of Jon A. Piliaris (20 pages) (4/3/17)
<u>JAP-35</u>	Jon A. Piliaris			PSE Response to Staff DR 101
<u>JAP-36</u>	Jon A. Piliaris			PSE Response to Staff DR 6
<u>JAP-37</u>	Jon A. Piliaris			2017 GRC Supplemental – Gas Adjustments to Volume (Therms) by Rate Schedule; Reconciliation of Revenue at Actual Rates by Rate Schedule
<u>JAP-38</u>	Jon A. Piliaris			Calculation of Schedule 96 Rate; Statement of Proforma and Proposed Revenue for Schedule 95
<u>JAP-39</u>	Jon A. Piliaris			Tariffed Rate Components;

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				Summary Rate Spread; Estimated Effect of Proposed Base Rate Increase on Revenues from Electric Sales; Residential Rate Design; Secondary Voltage Rate Design; Primary Voltage Rate Design; Campus Rate Design; High Voltage Rate Design; Transportation and Wholesale for Resale; Area and Street Lighting Rate Design
<u>JAP-40</u>	Jon A. Piliaris			Allocation of Revenue Deficiency to Rate Classes at Existing PGA Allocations; Current and Proposed Rates by Rate Schedule; Rental Schedules 71, 72, and 74
<u>JAP-41</u>	Jon A. Piliaris			Electric Decoupling Mechanism Calculations
<u>JAP-42</u>	Jon A. Piliaris			Gas Decoupling Mechanism Calculations
<u>JAP-43C</u>	Jon A. Piliaris			Electric Decoupling Mechanism Calculations
<u>JAP-44</u>	Jon A. Piliaris			GRC Rate Impacts; Monthly Billing Comparison by Schedule
<u>JAP-45</u>	Jon A. Piliaris			2017 Gas GRC Proposed Rates Estimated Combined Impact on Total Bills; Typical Residential Bill Impacts of Proposed Rate Changes
<u>JAP-46TC</u>	Jon A. Piliaris			***CONFIDENTIAL*** Confidential Prefiled Rebuttal Testimony of Jon A. Piliaris (86 pages) (8/9/17)
<u>JAP-47</u>	Jon A. Piliaris			Alternative Decoupling Calculations for Fixed Production Cost
<u>JAP-48</u>	Jon A. Piliaris			The Energy Project Response

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				to PSE DR 2
<u>JAP-49</u>	Jon A. Piliaris			Joint Motion to Amend Order 03 and Settlement Agreement in Docket UE-141368
<u>JAP-50</u>	Jon A. Piliaris			Modified Parity Ratio Calculation for Schedule 40
<u>JAP-51</u>	Jon A. Piliaris			Sample PSE Residential Electric Customer Bill
<u>JAP-52</u>	Jon A. Piliaris			PSE Residential Electric Rate Summary
<u>JAP-53</u>	Jon A. Piliaris			Staff Response to PSE DR 24
CROSS-EXAMINATION EXHIBITS				
Ronald J. Roberts, Director of Thermal Resources, PSE				
<u>RJR-1TC</u>	Ronald J. Roberts			***CONFIDENTIAL*** Confidential Prefiled Direct Testimony of Ronald J. Roberts (76 pages) (1/13/17)
<u>RJR-2</u>	Ronald J. Roberts			Professional Qualifications of Ronald J. Roberts
<u>RJR-3</u>	Ronald J. Roberts			Construction and Ownership Agreement Between Montana Power Company and PSE
<u>RJR-4</u>	Ronald J. Roberts			Agreement for the Operation and Maintenance of Colstrip Steam Electric Generating Plant Between Montana Power Company and PSE
<u>RJR-5</u>	Ronald J. Roberts			Common Facilities Agreement Between Montana Power Company, PSE, Washington Water Power Company, Portland General Electric Company, Pacific Power, and Basin Electric Power Cooperative for

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				Colstrip Units 1-4
<u>RJR-6</u>	Ronald J. Roberts			Coal Purchase and Sale Agreement By and Among PPL Montana, LLC and PSE as Buyers and Western Energy Company as Seller
<u>RJR-7</u>	Ronald J. Roberts			Colstrip Project Transmission Agreement between Northwestern Energy, PSE, Avista, Portland General Electric Company, and PacifiCorp
<u>RJR-8</u>	Ronald J. Roberts			Transmission Agreement Between Montana Power Company and PSE for Colstrip Units 1 and 2
<u>RJR-9</u>	Ronald J. Roberts			Amended and Restated Transmission Agreement Executed by US DOE Acting by and through the Bonneville Power Administration and Montana Intertie Users (Colstrip Project)
<u>RJR-10</u>	Ronald J. Roberts			EPA Rules and Proposed Rules
<u>RJR-11</u>	Ronald J. Roberts			US Energy Information Administration article, “Coal Made up more than 80% of Retired Electricity Generating Capacity in 2015” March 8, 2016
<u>RJR-12</u>	Ronald J. Roberts			“A Bleak Future for Colstrip Units 1 and 2,” Institute for Energy Economics and Financial Analysis, June 2015
<u>RJR-13</u>	Ronald J. Roberts			Statement of Talen Energy, Jeremy McGuire, Senior VP, CFO, before the Montana Energy and Telecommunications Interim

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				Committee, July 14, 2016
<u>RJR-14</u>	Ronald J. Roberts			Talen Montana Colstrip Power Plant Shutdown Water Management Options Analysis, Prepared by WorleyParsons Resources and Energy
<u>RJR-15</u>	Ronald J. Roberts			Feasibility Capital Cost Estimate Colstrip Units 1-4 SCR Retrofit, prepared by David Bowen for Burns & McDonnell
<u>RJR-16</u>	Ronald J. Roberts			USDC District of Montana Sierra Club and Montana Environmental Information Center v. Talen Montana, LLC, Avista, PSE, Portland General Electric Company, Northwestern Energy, and PacifiCorp Declaration of Gordon Criswell in Opposition of Plaintiff's Motion for Attorney's Fees;
<u>RJR-17</u>	Ronald J. Roberts			Forecast of Possible Cost Impacts of I-732
<u>RJR-18</u>	Ronald J. Roberts			Consent Decree from USDC District of Montana between Sierra Club, Montana Environmental Information Center and Talen Montana, LLC, Avista, PSE, Portland General Electric Company, Northwestern Energy, PacifiCorp
<u>RJR-19</u>	Ronald J. Roberts			General Release and Settlement Agreement between Sierra Club, Montana Environmental Information Center, National Wildlife Federation and Talen Montana, LLC, Avista,

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				PSE, Portland General Electric Company, Northwestern Energy, PacifiCorp
<u>RJR-20</u>	Ronald J. Roberts			Cost Estimate to Retire and Decommission Colstrip Units 1 and 2, Black & Veatch Corporation
<u>RJR-21</u>	Ronald J. Roberts			Colstrip Units 1 and 2 Demolition Cost Estimate, HDR Engineering, Inc.
<u>RJR-22</u>	Ronald J. Roberts			Brandenburg Quote – Demolition Budget Colstrip Units 1 and 2
<u>RJR-23</u>	Ronald J. Roberts			Total Projected Decommissioning and Demolition Costs and CCR Plan Costs Colstrip Units 1 and 2
<u>RJR-24</u>	Ronald J. Roberts			Master Plan Summary Report Update Colstrip Steam Electric Station Prepared by Geosyntec Consultants, Revised 9/23/16
<u>RJR-25</u>	Ronald J. Roberts			2017 GRC vs. 2014 PCORC as filed
<u>RJR-26C</u>	Ronald J. Roberts			***CONFIDENTIAL*** Amortization for Rate Years Major Maintenance Expense
<u>RJR-27</u>	Ronald J. Roberts			Lower Snake River Operations and Maintenance Cost Benchmark and Forecast Study
<u>RJR-28</u>	Ronald J. Roberts			RFP for Lower Snake River Service and Maintenance on Behalf of PSE
<u>RJR-29C</u>	Ronald J. Roberts			***CONFIDENTIAL*** New Siemens Wind Turbine Services Agreement
<u>RJR-30T</u>	Ronald J. Roberts			Prefiled Rebuttal Testimony

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				of Ronald J. Roberts (18 pages) (8/9/17)
<u>RJR-31</u>	Ronald J. Roberts			The Application for a Construction Permit to the Montana Department of Health and Environmental Services for Colstrip Units 1 and 2
<u>RJR-32</u>	Ronald J. Roberts			Study of Alternate Ash Disposal Methods For Colstrip Units No. 1 and No. 2, issued by the Montana Power Company in February 1985
CROSS-EXAMINATION EXHIBITS				
RJR- ___ X	Sierra Club			Puget Sound Energy's 2017 IRP Advisory Group Presentation (August 11, 2017) (excerpt)
RJR- ___ X	Sierra Club			Portland General Electric's 2016 Integrated Resource Plan (November 2016) (excerpt)
RJR- ___ X	Sierra Club			PacifiCorp's 2015 Integrated Resource Plan Volume 1 (March 31, 2015) (excerpt)
John K. Rork, Manager, Environmental Programs & Sciences Department, PSE				
<u>JKR-1T</u>	John K. Rork			Prefiled Direct Testimony of John K. Rork (14 pages) (1/13/17)
<u>JKR-2</u>	John K. Rork			Professional Qualifications of John K. Rork
<u>JKR-3</u>	John K. Rork			Electric Sites and Former Manufactured Gas Sites Actual Costs and Insurance Recoveries through 9/16
CROSS-EXAMINATION EXHIBITS				

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Suzanne M. Sasville, Supervisor for Energy Assistance Programs, PSE				
<u>SMS-1T</u>	Suzanne M. Sasville			Prefiled Direct Testimony of Suzanne M. Sasville (8 pages) (1/13/17)
<u>SMS-2</u>	Suzanne M. Sasville			Professional Qualifications of Suzanne M. Sasville
<u>SMS-3</u>	Suzanne M. Sasville			PSE Customers Below Poverty Levels
<u>SMS-4T</u>	Suzanne M. Sasville			Prefiled Rebuttal Testimony of Suzanne M. Sasville (8 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
Steven R. Secrist, Senior Vice President, General Counsel, Chief Ethics and Compliance Officer				
<u>SRS-1T</u>	Steven R. Secrist			Prefiled Rebuttal Testimony of Steven R. Secrist (13 pages) (8/9/17)
<u>SRS-2</u>	Steven R. Secrist			Professional Qualifications of Steven R. Secrist
<u>SRS-3</u>	Steven R. Secrist			Letter to Steve McLellan, Washington Utilities and Transportation Commission (April 2, 1998)
CROSS-EXAMINATION EXHIBITS				
John J. Spanos, Senior Vice President, Gannett Fleming Valuation and Rate Consultants				
<u>JJS-1T</u>	John J. Spanos			Prefiled Direct Testimony of John J. Spanos (18 pages) (1/13/17)
<u>JJS-2</u>	John J. Spanos			Professional Qualifications of John J. Spanos
<u>JJS-3</u>	John J. Spanos			2016 Depreciation Study: Calculated Annual Depreciation Accruals Related to Electric, Gas, and

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				Common Plant as of 9/30/16, Prepared by Gannett Fleming
<u>JJS-4T</u>	John J. Spanos			Prefiled Rebuttal Testimony of John J. Spanos (39 pages) (8/9/17)
<u>JJS-5</u>	John J. Spanos			Comparison of Theoretical Net Plant as of Sept. 30, 2016
<u>JJS-6</u>	John J. Spanos			Depreciation Expense for Colstrip Units 3 and 4 (2025 & 2029)
CROSS-EXAMINATION EXHIBITS				
Paul K. Wetherbee, Director, Energy Supply Merchant for PSE				
<u>PKW-1TC</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Confidential Prefiled Direct Testimony of Paul K. Wetherbee (83 pages) (1/13/17)
<u>PKW-2</u>	Paul K. Wetherbee			Professional Qualifications of Paul K. Wetherbee
<u>PKW-3C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC As Filed Power Costs Projections – AURORA + Not in Models Rate Year January 2018 through December 2018; Gas Price Date: 9/23/16
<u>PKW-4C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC As Filed vs 2016 Power Costs Update Power Costs Comparison
<u>PKW-5</u>	Paul K. Wetherbee			Greenhouse Gas Emissions Caps Metric Tons CO2 Equivalent
<u>PKW-6C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Change in Power Costs & Generation Due to Emission Constraints

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<u>PKW-7</u>	Paul K. Wetherbee			PSE White River Land Parcels in Regulatory Asset Account
<u>PKW-8CT</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Confidential Prefiled Supplemental Testimony of Paul K. Wetherbee (8 pages) (4/3/17)
<u>PKW-9C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC Supplemental Power Costs Projections – AURORA + Not in Models Rate Year January 2018 through December 2018; Gas Price Date: 2/3/17
<u>PKW-10C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC Supplemental vs 2017 GRC As Filed Power Costs Comparison
<u>PKW-11C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC Supplemental vs 2016 Power Costs Update Power Costs Comparison
<u>PKW-12C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Change in Power Costs & Generation Due to Emission Constraints
<u>PKW-13C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC Supplemental Contingent Calculation Power Costs Projections – AURORA + Not in Models Raye Year January 2018 through December 2018; Gas Price Date: 2/3/17
<u>PKW-14C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** 2017 GRC Supplemental Contingent Calculation vs 2017 GRC Supplemental Power Costs Comparison

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<u>PKW-15TC</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Confidential Prefiled Rebuttal Testimony of Paul K. Wetherbee (50 pages) (8/9/17)
<u>PKW-16</u>	Paul K. Wetherbee			PSE Clean Air Rule Baseline Emissions Limits and 2018 Caps (2012 through 2016)
<u>PKW-17C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Clean Air Rule Compliance Cost Estimate
<u>PKW-18C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Comparisons of Actual Wind Generation with the Preconstruction, 2010 DNV, and 2016 Wind Forecasts
<u>PKW-19C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Capacity factors for PSE's Wind Resource from Various Forecasts
<u>PKW-20C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Vaisala Forecasts for All of PSE's Owned Wind Resources
<u>PKW-21C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Updated Summary of Power Costs
<u>PKW-22C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Comparison of Projected Power Costs Presented in This Rebuttal Testimony with the Projected Power Costs Presented in PSE's Supplemental Testimony filed on April 3, 2017
<u>PKW-23C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Comparison of Projected Power Costs Presented in this Rebuttal Testimony with the Projected Power Costs

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				Presented in the 2016 Power Costs Update
<u>PKW-24C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Projected Power Costs with the Microsoft Special Contract Qualifying Load Removed
<u>PKW-25C</u>	Paul K. Wetherbee			***CONFIDENTIAL*** Comparison of Projected Power Costs Presented in this Rebuttal Testimony with the Microsoft Qualifying Load Removed with Projected Power Costs Presented in PSE's Supplemental Testimony Filed on April 3, 2017, with the Microsoft Special Contract Qualifying Load Removed
CROSS-EXAMINATION EXHIBITS				
Greg J. Zeller, Director Customer Care, PSE				
<u>GJZ-1T</u>	Greg J. Zeller			Prefiled Direct Testimony of Greg J. Zeller (22 pages) (1/13/17)
<u>GJZ-2</u>	Greg J. Zeller			Professional Qualifications of Greg J. Zeller
<u>GJZ-3T</u>	Greg J. Zeller			Prefiled Rebuttal Testimony of Greg J. Zeller (21 pages) (8/9/17)
<u>GJZ-4</u>	Greg J. Zeller			Public Counsel Response to PSE DR 7
<u>GJZ-5</u>	Greg J. Zeller			Public Counsel Response to PSE DR 9
CROSS-EXAMINATION EXHIBITS				

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COMMISSION REGULATORY STAFF				
Jason L. Ball, Regulatory Analyst				
<u>JLB-1T</u>	Jason L. Ball			Prefiled Response Testimony of Jason L. Ball (56 pages) (6/30/17)
<u>JLB-2</u>	Jason L. Ball			Comparison of Staff and Company Electric Cost of Service Study Results and Rate Design Proposals
<u>JLB-3</u>	Jason L. Ball			Comparison of Staff and Company Natural Gas Rates
<u>JLB-4C</u>	Jason L. Ball			***CONFIDENTIAL*** Seasonal Rate Design Technical Appendix
<u>JLB-5</u>	Jason L. Ball			Bill Impact of Increased Basic Charge
<u>JLB-6</u>	Jason L. Ball			Third Block Technical Appendix
<u>JLB-7</u>	Jason L. Ball			PSE Response to Staff DRs 103 and 104
<u>JLB-8T</u>	Jason L. Ball			Supplemental Testimony of Jason L. Ball (8/7/17) (8 pages)
<u>JLB-9</u>	Jason L. Ball			Cross-Walk of Impacts on Cost of Service from Various Updates
<u>JLB-10</u>	Jason L. Ball			PSE 1 st Revised Response to Staff DR 443
<u>JLB-11</u>	Jason L. Ball			Staff Response to PSE DR 24
<u>JLB-12T</u>	Jason L. Ball			Prefiled Cross-Answering Testimony of Jason L. Ball (8 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
Melissa C. Cheesman, Regulatory Analyst				
<u>MCC-1T</u>	Melissa C. Cheesman			Prefiled Response Testimony of Melissa C. Cheesman

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				(30 pages) (6/30/17)
<u>MCC-2</u>	Melissa C. Cheesman			Electric Results of Operations for 12 Months Ending 9/30/16
<u>MCC-3</u>	Melissa C. Cheesman			Calculation of Electric Revenue Requirement Sufficiency
<u>MCC-4</u>	Melissa C. Cheesman			Comparison of PSE-Staff Electric Revenue Requirements
<u>MCC-5</u>	Melissa C. Cheesman			Comparison of PSE-Staff Working Capital (Electric)
<u>MCC-6</u>	Melissa C. Cheesman			PSE Requested Overall Electric Revenue Sufficiency
<u>MCC-7</u>	Melissa C. Cheesman			Gas Results of Operations for 12 Months Ending 9/30/16
<u>MCC-8</u>	Melissa C. Cheesman			Calculation of Gas Revenue Requirement Deficiency
<u>MCC-9</u>	Melissa C. Cheesman			Comparison of PSE-Staff Gas Revenue Requirements
<u>MCC-10</u>	Melissa C. Cheesman			Comparison of PSE-Staff Working Capital (Gas)
<u>MCC-11</u>	Melissa C. Cheesman			PSE Requested Overall Gas Revenue Sufficiency
<u>MCC-12</u>	Melissa C. Cheesman			Electric Revenue Bridge
<u>MCC-13</u>	Melissa C. Cheesman			Gas Revenue Bridge
<u>MCC-14</u>	Melissa C. Cheesman			PSE Response to Staff DR 382
<u>MCC-15</u>	Melissa C. Cheesman			PSE Response to Staff DR 382
<u>MCC-16</u>	Melissa C. Cheesman			PSE Response to Staff DR 371
<u>MCC-17</u>	Melissa C. Cheesman			PSE Response to Staff DR 372
<u>MCC-18</u>	Melissa C. Cheesman			PSE Witness, Ms. Susan Free Natural Gas Work Paper Adjustment 11.13
CROSS-EXAMINATION EXHIBITS				
Betty A. Erdahl, Regulatory Analyst				
<u>BAE-1T</u>	Betty A. Erdahl			Prefiled Response Testimony of Betty A. Erdahl (16 pages) (6/30/17)

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<u>BAE-2</u>	Betty A. Erdahl			Comparison of Staff and PSE Working Capital Adjustments
<u>BAE-3</u>	Betty A. Erdahl			Detailed Staff Working Capital Calculation 13.23 and 11.23
<u>BAE-4</u>	Betty A. Erdahl			PSE Response to Staff DR 337
<u>BAE-5</u>	Betty A. Erdahl			PSE Response to Staff DR 339
<u>BAE-6</u>	Betty A. Erdahl			PSE Response to Staff DR 204
CROSS-EXAMINATION EXHIBITS				
Kyle A. Frankiewich, Regulatory Analyst				
<u>KAF-1T</u>	Kyle A. Frankiewich			Prefiled Response Testimony of Kyle A. Frankiewich (31 pages) (6/30/17)
<u>KAF-2</u>	Kyle A. Frankiewich			PSE's Response to Public Counsel DR 290
<u>KAF-3</u>	Kyle A. Frankiewich			PSE Response to Staff DR 323 (Including Attachments A-E) and PSE's Response to UTC Staff DR 410 (Including Attachment A)
<u>KAF-4</u>	Kyle A. Frankiewich			PSE Response to Staff DR 327 (Including Attachment A)
<u>KAF-5</u>	Kyle A. Frankiewich			PSE Response to Staff DR 331
<u>KAF-6</u>	Kyle A. Frankiewich			PSE Response to Staff DR 329
<u>KAF-7</u>	Kyle A. Frankiewich			PSE First Supplemental Response to Staff DR 328 (Including Attachment E)
<u>KAF-8</u>	Kyle A. Frankiewich			Staff Example of Variance in Reasonable Estimates of CAR Baseline (expansion of Exh. PKW-5)
<u>KAF-9</u>	Kyle A. Frankiewich			PSE Response to Staff DR 419
CROSS-EXAMINATION EXHIBITS				
David C. Gomez, Assistant Power Supply Manager				
<u>DCG-1TC</u>	David C. Gomez			***CONFIDENTIAL***

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				Confidential Prefiled Response Testimony of David C. Gomez (35 pages) (6/30/17)
<u>DCG-2</u>	David C. Gomez			PSE 2015 IRP, Appendix D
<u>DCG-3C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 175, Attachments A&B
<u>DCG-4C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 177
<u>DCG-5</u>	David C. Gomez			PSE Response to Staff DR 177, Attachment G
<u>DCG-6</u>	David C. Gomez			PSE Response to Staff DR 177, Attachment C
<u>DCG-7C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 176, Attachments C-F
<u>DCG-8C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 259
<u>DCG-9C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 176, Attachment G
<u>DCG-10</u>	David C. Gomez			2015 Wind Technologies Market Report, p. 41
<u>DCG-11C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 311, Attachments B-F
<u>DCG-12C</u>	David C. Gomez			***CONFIDENTIAL*** PSE Response to Staff DR 177, Attachment A
<u>DCG-13C</u>	David C. Gomez			***CONFIDENTIAL*** Portions of Testimony of David C. Gomez, Exh. DCG- 1TC, and Gregory N. Duvall, Exh. GND-1TC, in Docket UE-130043
<u>DCG-14</u>	David C. Gomez			Portions of Testimony of David E. Mills, Exh. DEM- 11TC, in Dockets UE-111048 and UG-111049
<u>DCG-15C</u>	David C. Gomez			***CONFIDENTIAL*** Portions of Testimony of

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				David E. Mills, Exh. DEM-1TC, in Dockets UE-111048 and UG-111049
CROSS-EXAMINATION EXHIBITS				
Christopher S. Hancock, Regulatory Analyst				
<u>CSH-1TC</u>	Christopher S. Hancock			***CONFIDENTIAL*** Confidential Prefiled Testimony of Christopher S. Hancock (30 pages) (6/30/17)
<u>CSH-2C</u>	Christopher S. Hancock			***CONFIDENTIAL*** PSE Response to Staff DR 185
<u>CSH-3</u>	Christopher S. Hancock			PSE Response to Staff DR 143
<u>CSH-4</u>	Christopher S. Hancock			PSE Response to Staff DR 16
<u>CSH-5</u>	Christopher S. Hancock			Montana Response to Staff DR 13
<u>CSH-6T</u>	Christopher S. Hancock			Prefiled Cross-Answering Testimony of Christopher S. Hancock (9 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
Jing Liu, Regulatory Analyst				
<u>JL-1TC</u>	Jing Liu			***CONFIDENTIAL*** Confidential Prefiled Response Testimony of Jing Liu (76 pages) (6/30/17) (Revised 7/11/17)
<u>JL-2</u>	Jing Liu			Output of Electric Temperature Normalization Models
<u>JL-3</u>	Jing Liu			Calculation of Electric Temperature Normalization Adjustment
<u>JL-4</u>	Jing Liu			Calculation of Gas Temperature Normalization Adjustment
<u>JL-5</u>	Jing Liu			Output of Gas Temperature

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				Normalization Models Using Ten Year Data
<u>JL-6</u>	Jing Liu			Comparison of Ten Year and Five Year Models for Natural Gas Temperature Normalization
<u>JL-7C</u>	Jing Liu			***CONFIDENTIAL*** PSE Production Cost Trend Analysis
<u>JL-8</u>	Jing Liu			Summary of PSE's Electric Non-Residential Proposed Grouping Backcast
CROSS-EXAMINATION EXHIBITS				
Chris R. McGuire, Energy Policy Strategist				
<u>CRM-1T</u>	Chris R. McGuire			Prefiled Response Testimony of Chris R. McGuire (37 pages) (6/30/17)
<u>CRM-2</u>	Chris R. McGuire			Colstrip 1 & 2 Pro Rata Depreciation Estimate
<u>CRM-3</u>	Chris R. McGuire			Colstrip 1 & 2 Regulatory Asset
<u>CRM-4</u>	Chris R. McGuire			Report to the Audit Committees (Excerpt)
<u>CRM-5</u>	Chris R. McGuire			PSE Response to Public Counsel DR 424
<u>CRM-6T</u>	Chris R. McGuire			Prefiled Cross-Answering Testimony of Chris R. McGuire (13 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
Elizabeth C. O'Connell, Regulatory Analyst				
<u>ECO-1TC</u>	Elizabeth C. O'Connell			***CONFIDENTIAL*** Confidential Prefiled Direct Testimony of Elizabeth C. O'Connell (33 pages) (6/30/17)
<u>ECO-2C</u>	Elizabeth C. O'Connell			***CONFIDENTIAL*** Staff's Proposed

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				Environmental Remediation Adjustments
<u>ECO-3</u>	Elizabeth C. O'Connell			Environmental Remediation Commission Orders, Start Dates, and Costs
<u>ECO-4</u>	Elizabeth C. O'Connell			PSE Environmental Remediation Quarterly Reports, Q1 2017
<u>ECO-5</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 279
<u>ECO-6</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 284
<u>ECO-7</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 282
<u>ECO-8</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 280
<u>ECO-9</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 270 and 271
<u>ECO-10C</u>	Elizabeth C. O'Connell			***CONFIDENTIAL*** PSE Response to Staff DR 401, Attachment W
<u>ECO-11</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 278
<u>ECO-12</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 269, Attachment A
<u>ECO-13C</u>	Elizabeth C. O'Connell			***CONFIDENTIAL*** Tacoma Tide Flats Letter
<u>ECO-14C</u>	Elizabeth C. O'Connell			***CONFIDENTIAL*** PSE Response to Staff DR 401, Attachment K
<u>ECO-15</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 281
<u>ECO-16</u>	Elizabeth C. O'Connell			Washington Natural Gas and PSE's Environmental Projects Quarterly Reports Excluding Tacoma Tide Flats
<u>ECO-17</u>	Elizabeth C. O'Connell			PSE's Summary of Environmental Remediation Costs for Gas Sites Including Tacoma Tide Flats, 12/31/97
<u>ECO-18</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 364, Attachment A
<u>ECO-19</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 364
<u>ECO-20</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 221
<u>ECO-21</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 312

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				and 408
<u>ECO-22</u>	Elizabeth C. O'Connell			Staff's Proposed Legal Costs Adjustments
<u>ECO-23</u>	Elizabeth C. O'Connell			PSE Response to Staff DR 218, Attachment A
CROSS-EXAMINATION EXHIBITS				
David C. Parcell, Senior Economist, Technical Associates, Inc.				
<u>DCP-1T</u>	David C. Parcell			Prefiled Response Testimony of David C. Parcell (55 pages) (6/30/17)
<u>DCP-2</u>	David C. Parcell			Background and Experience
<u>DCP-3</u>	David C. Parcell			PSE Total Cost of Capital
<u>DCP-4</u>	David C. Parcell			Economic Indicators
<u>DCP-5</u>	David C. Parcell			PSE History of Credit Ratings
<u>DCP-6</u>	David C. Parcell			PSE Capital Structure Ratios
<u>DCP-7</u>	David C. Parcell			Proxy Companies Average Common Equity Ratios
<u>DCP-8</u>	David C. Parcell			Proxy Companies Basis for Selection
<u>DCP-9</u>	David C. Parcell			Proxy Companies DCF Cost Rates
<u>DCP-10</u>	David C. Parcell			Standard & Poor's 500 ROE and 20-Year Treasury Bond Returns
<u>DCP-11</u>	David C. Parcell			Proxy Companies CAPM Cost Rates
<u>DCP-12</u>	David C. Parcell			Proxy Companies ROE and Market to Book Ratios
<u>DCP-13</u>	David C. Parcell			Standard & Poor's 500 ROE and Market to Book Ratios
<u>DCP-14</u>	David C. Parcell			Risk Indicators
<u>DCP-15</u>	David C. Parcell			Risk Indicators of Electric Utilities by Size
CROSS-EXAMINATION EXHIBITS				
Andrew Roberts, Regulatory Analyst				

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<u>AR-1T</u>	Andrew Roberts			Prefiled Response Testimony of Andrew Roberts (9 pages) (6/30/17)
<u>AR-2</u>	Andrew Roberts			PSE Response to Staff DR 387
<u>AR-3</u>	Andrew Roberts			PSE Response to Staff DR 468
<u>AR-4</u>	Andrew Roberts			PSE Response to Staff DR 43
<u>AR-5</u>	Andrew Roberts			PSE Response to Staff DR 40
<u>AR-6</u>	Andrew Roberts			PSE Response to Staff DR 44
<u>AR-7</u>	Andrew Roberts			Effect of IVR Transaction Data on SQI No. 5 Calculation
<u>AR-8</u>	Andrew Roberts			In the Matters of Puget Sound Power and Light Co. Dockets UE-951270 and UE-960195, Fourteenth Supplemental Order Accepting Stipulation; Approving Merger
<u>AR-9</u>	Andrew Roberts			PSE Response to Staff DR 386
CROSS-EXAMINATION EXHIBITS				
Thomas E. Schooley, Assistant Director – Energy Regulation, Regulatory Services Division				
<u>TES-1T</u>	Thomas E. Schooley			Prefiled Response Testimony of Thomas E. Schooley (31 pages) (6/30/17)
<u>TES-2</u>	Thomas E. Schooley			Charts of Storm Events
<u>TES-3</u>	Thomas E. Schooley			Storm Damage Expenses by Periods Ending September 30
CROSS-EXAMINATION EXHIBITS				
Jennifer Snyder, Regulatory Analyst				
<u>JES-1T</u>	Jennifer Snyder			Prefiled Response Testimony of Jennifer Snyder (8 pages) (6/30/17)
<u>JES-2</u>	Jennifer Snyder			PSE Response to Staff DR 253
<u>JES-3</u>	Jennifer Snyder			PSE Response to Staff DR 394
<u>JES-4C</u>	Jennifer Snyder			***CONFIDENTIAL***

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				PSE Response to Staff DR 252, Attachment A
<u>JES-5</u>	Jennifer Snyder			PSE Response to Staff DR 392
<u>JES-6</u>	Jennifer Snyder			PSE Supplemental Response to Staff DR 392
<u>JES-7</u>	Jennifer Snyder			Lazard, "Lazard's Levelized Cost of Storage Analysis 2.0 – Key Findings"
<u>JES-8</u>	Jennifer Snyder			PSE Response to Staff DR 247
<u>JES-9</u>	Jennifer Snyder			PSE Response to Staff DR 250
CROSS-EXAMINATION EXHIBITS				
E. Cooper Wright, Regulatory Analyst				
<u>ECW-1T</u>	E. Cooper Wright			Prefiled Response Testimony of E. Cooper Wright (27 pages) (6/30/17)
CROSS-EXAMINATION EXHIBITS				
PUBLIC COUNSEL				
Barbara R. Alexander, Independent Consultant				
<u>BRA-1T</u>	Barbara R. Alexander			Prefiled Response Testimony of Barbara R. Alexander (33 pages) (6/30/17)
<u>BRA-2</u>	Barbara R. Alexander			Resume
<u>BRA-3</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 22
<u>BRA-4</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 19, Attachment A
<u>BRA-5</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 27, Attachments B, C, and D
<u>BRA-6</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 14
<u>BRA-7</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 15
<u>BRA-8</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 443
<u>BRA-9</u>	Barbara R. Alexander			PSE Response to Public

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				Counsel DR 28, Attachment A
<u>BRA-10</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 358
<u>BRA-11</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 363, Attachment A
<u>BRA-12</u>	Barbara R. Alexander			Customer Care Center Abandonment Rate Data
<u>BRA-13</u>	Barbara R. Alexander			Copy of PAC Customer Service Guarantees
<u>BRA-14</u>	Barbara R. Alexander			Code of Maryland Regulations, 20.50.12.08
<u>BRA-15</u>	Barbara R. Alexander			Pennsylvania PUC Customer Service Report
<u>BRA-16</u>	Barbara R. Alexander			Xcel Energy Tariffs: Sections 6 and 1.9
<u>BRA-17</u>	Barbara R. Alexander			PSE Response to Staff DR 43
<u>BRA-18</u>	Barbara R. Alexander			PSE Response to Staff DR 468
<u>BRA-19</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 13
<u>BRA-20</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 361
<u>BRA-21</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 362
<u>BRA-22</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 25, Attachments A and B
<u>BRA-23</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 56
<u>BRA-24</u>	Barbara R. Alexander			PSE Response to Public Counsel DR 6
<u>BRA-25</u>	Barbara R. Alexander			PSE Responses to Public Counsel DRs 9, 10, 42, and 43
CROSS-EXAMINATION EXHIBITS				
Michael L. Brosch, President, Utilitech, Inc.				
<u>MLB-1T</u>	Michael L. Brosch			Prefiled Response Testimony of Michael L. Brosch (70 pages) (6/30/17)
<u>MLB-2</u>	Michael L. Brosch			Qualifications

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<u>MLB-3</u>	Michael L. Brosch			PSE Response to Public Counsel DR 62, with Attachment A
<u>MLB-4</u>	Michael L. Brosch			Hawaiian Electric Company RBA Tariff
<u>MLB-5</u>	Michael L. Brosch			PSE Responses to Public Counsel DRs 61 and 283
<u>MLB-6</u>	Michael L. Brosch			PSE Responses to Public Counsel DRs 48, 51, and 73
<u>MLB-7</u>	Michael L. Brosch			Puget Energy/PSE 2016 Year End Update Presentation
<u>MLB-8</u>	Michael L. Brosch			PSE Responses to Public Counsel DRs 71, 72, and 75
<u>MLB-9</u>	Michael L. Brosch			PSE Response to Public Counsel DR 388
<u>MLB-10</u>	Michael L. Brosch			PSE Response to Public Counsel DR 393, with Attachment A
CROSS-EXAMINATION EXHIBITS				
Roxie M. McCullar, CPA and Consultant, William Dunkel and Associates				
<u>RMM-1T</u>	Roxie M. McCullar			Prefiled Response Testimony of Roxie M. McCullar (31 pages) (6/30/17)
<u>RMM-2</u>	Roxie M. McCullar			Qualifications
<u>RMM-3</u>	Roxie M. McCullar			Comparison of Current Approved, PSE Proposed, and Public Counsel Proposed Accrual Rate and Annual Accrual Amounts
<u>RMM-4</u>	Roxie M. McCullar			Public Counsel's Proposed Depreciation Rates for PSE's Electric Plant
<u>RMM-5</u>	Roxie M. McCullar			Public Counsel's Proposed Depreciation Rates for PSE's Natural Gas Plant
<u>RMM-6</u>	Roxie M. McCullar			Referenced Pages from NARUC's Public Utility Depreciation Practices (August 1996)

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<u>RMM-7</u>	Roxie M. McCullar			PSE Response to ICNU DR 27, Attachment A (PSE – 2016 – Production Net Salvage Calculations)
<u>RMM-8</u>	Roxie M. McCullar			Comparison of PSE Proposed Future Net Salvage Accrual and Average Net Salvage Actually Incurred in Recent Years for Natural Gas Plant
<u>RMM-9</u>	Roxie M. McCullar			Comparison of Public Counsel’s Proposed Future Net Salvage Accrual and Average Net Salvage Actually Incurred in Recent Years for Natural Gas Plant
<u>RMM-10</u>	Roxie M. McCullar			Comparison of PSE Proposed Future Net Salvage Accrual and Average Net Salvage Actually Incurred in Recent Years for Electric Plant
<u>RMM-11</u>	Roxie M. McCullar			Comparison of Public Counsel’s Proposed Future Net Salvage Accrual and Average Net Salvage Actually Incurred in Recent Years for Electric Plant
CROSS-EXAMINATION EXHIBITS				
Ralph C. Smith, CPA and Senior Regulatory Utility Consultant, Larkin & Associates, PLLC				
<u>RCS-1TC</u>	Ralph C. Smith			***CONFIDENTIAL*** Confidential Prefiled Response Testimony of Ralph C. Smith (89 pages) (6/30/17)
<u>RCS-2</u>	Ralph C. Smith			Qualifications
<u>RCS-3</u>	Ralph C. Smith			Electric Revenue Requirement
<u>RCS-4</u>	Ralph C. Smith			Natural Gas Revenue Requirement
<u>RCS-5</u>	Ralph C. Smith			PSE Responses to Public Counsel DR 297 and ICNU

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				DRs 63, 65, and 67
<u>RCS-6</u>	Ralph C. Smith			PSE Responses to Staff DRs 6 and 46
<u>RCS-7</u>	Ralph C. Smith			PSE Responses to Public Counsel DR 126 and ICNU DR 60
<u>RCS-8C</u>	Ralph C. Smith			***CONFIDENTIAL*** PSE Responses to ICNU DRs 56 and 57 (with Attachment A) and Staff DR 212
<u>RCS-9</u>	Ralph C. Smith			PSE Responses to Staff DR 278 (with Attachment A) and 284
<u>RCS-10C</u>	Ralph C. Smith			***CONFIDENTIAL*** PSE Responses to Public Counsel DRs 355, 394, 395, 420, 426 (with Attachment A); Sierra Club DR 4 (with Attachment A); Staff DRs 142, 296, 359, 359 (revised with Attachments A and B), and 461
<u>RCS-11C</u>	Ralph C. Smith			***CONFIDENTIAL*** Colstrip Strategic Planning Update, dated 3/2/17
<u>RCS-12C</u>	Ralph C. Smith			***CONFIDENTIAL*** Analysis of Pension Plans
CROSS-EXAMINATION EXHIBITS				
Glenn A. Watkins, Principal and Senior Economist, Technical Associates, Inc.				
<u>GAW-1T</u>	Glenn A. Watkins			Prefiled Response Testimony of Glenn A. Watkins (70 pages) (6/30/17)
<u>GAW-2</u>	Glenn A. Watkins			Background and Experience Profile
<u>GAW-3</u>	Glenn A. Watkins			Public Counsel DR 300
<u>GAW-4</u>	Glenn A. Watkins			Public Counsel DR 301
<u>GAW-5</u>	Glenn A. Watkins			PSE Wind/Hydro Production During Peak Hours
<u>GAW-6</u>	Glenn A. Watkins			Base-Intermediate-Peak Classification

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<u>GAW-7</u>	Glenn A. Watkins			Gross Plant and Depreciation Reserve Hourly Assignments
<u>GAW-8</u>	Glenn A. Watkins			Probability of Dispatch Summary of Class Allocation Factors
<u>GAW-9</u>	Glenn A. Watkins			Probability of Dispatch Class Cost of Service Study
<u>GAW-10</u>	Glenn A. Watkins			Class Cost of Service Studies Parity Ratios
<u>GAW-11</u>	Glenn A. Watkins			Electric Residential Customer Cost Analysis
<u>GAW-12</u>	Glenn A. Watkins			Natural Gas Residential Customer Cost Analysis
<u>GAW-13T</u>	Glenn A. Watkins			Prefiled Cross-Answering Testimony of Glenn A. Watkins (10 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
J. Randall Woolridge, Professor of Finance, Pennsylvania State University				
<u>JRW-1T</u>	J. Randall Woolridge			Prefiled Response Testimony of J. Randall Woolridge (75 pages) (6/30/17)
<u>JRW-2</u>	J. Randall Woolridge			Background & Experience Profile
<u>JRW-3</u>	J. Randall Woolridge			Recommended Cost of Capital
<u>JRW-4</u>	J. Randall Woolridge			Ten Year Treasury Yield
<u>JRW-5</u>	J. Randall Woolridge			Public Utility Bond Yields
<u>JRW-6</u>	J. Randall Woolridge			Summary Financial Statistics for Proxy Groups
<u>JRW-7</u>	J. Randall Woolridge			Capital Structures Ratios and Debt Cost Rates
<u>JRW-8</u>	J. Randall Woolridge			Relationship Between Expected ROE and Market-to-Book Ratios
<u>JRW-9</u>	J. Randall Woolridge			Public Utility Capital Cost Indicators
<u>JRW-10</u>	J. Randall Woolridge			Industry Average Betas
<u>JRW-11</u>	J. Randall Woolridge			Discount Cash Flow Model
<u>JRW-12</u>	J. Randall Woolridge			Discount Cash Flow Study

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<u>JRW-13</u>	J. Randall Woolridge			Capital Asset Pricing Model Study
<u>JRW-14</u>	J. Randall Woolridge			PSE's Proposed Cost of Capital
<u>JRW-15</u>	J. Randall Woolridge			PSE ROE Results
<u>JRW-16</u>	J. Randall Woolridge			PSE Response to Public Counsel DR 333
<u>JRW-17T</u>	J. Randall Woolridge			Prefiled Cross-Answering Testimony of J. Randall Woolridge (12 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
THE ENERGY PROJECT				
Shawn M. Collins, Director, The Energy Project				
<u>SMC-1T</u>	Shawn M. Collins			Prefiled Response Testimony of Shawn M. Collins (32 pages) (6/30/17)
<u>SMC-2</u>	Shawn M. Collins			Professional Qualifications
<u>SMC-3T</u>	Shawn M. Collins			Prefiled Cross-Answering Testimony of Shawn M. Collins (9 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
ICNU				
Michael P. Gorman, Consultant and Managing Principal, Brubaker & Associates, Inc.				
<u>MPG-1T</u>	Michael P. Gorman			Prefiled Response Testimony of Michael P. Gorman (44 pages) (6/30/17)
<u>MPG-2</u>	Michael P. Gorman			Professional Qualifications
<u>MPG-3</u>	Michael P. Gorman			Treasury and Utility Bond Yields
<u>MPG-4</u>	Michael P. Gorman			Valuation Metrics
<u>MPG-5</u>	Michael P. Gorman			Accuracy of Interest Rate Forecasts
<u>MPG-6</u>	Michael P. Gorman			ICNU's Proposed Electric Revenue Distribution

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<u>MPG-7T</u>	Michael P. Gorman			Prefiled Cross-Answering Testimony of Michael P. Gorman (13 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
NWIGU				
Brian C. Collins, Consultant and Principal, Brubaker & Associates, Inc.				
<u>BCC-1T</u>	Brian C. Collins			Prefiled Response Testimony of Brian C. Collins (19 pages) (6/30/17)
<u>BCC-2</u>	Brian C. Collins			Qualifications
<u>BCC-3</u>	Brian C. Collins			Proposed Class Cost of Service
<u>BCC-4</u>	Brian C. Collins			Proposed Class Margin Revenue Allocation
<u>BCC-5T</u>	Brian C. Collins			Prefiled Cross-Answering Testimony of Brian C. Collins (8/9/17) (9 pages)
CROSS-EXAMINATION EXHIBITS				
ICNU AND NWIGU				
Bradley G. Mullins, Independent Consultant				
<u>BGM-1TCr</u>	Bradley G. Mullins			*** CONFIDENTIAL *** Prefiled Response Testimony of Bradley G. Mullins (56 pages) (6/30/17) (Revised 7/7/17)
<u>BGM-2</u>	Bradley G. Mullins			List of Regulatory Appearances
<u>BGM-3</u>	Bradley G. Mullins			Electric Services Revenue Requirement
<u>BGM-4</u>	Bradley G. Mullins			Natural Gas Services Revenue Requirement
<u>BGM-5C</u>	Bradley G. Mullins			*** CONFIDENTIAL *** PSE Responses to DRs
<u>BGM-6</u>	Bradley G. Mullins			Proposed Amortization

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				Schedule of Early Retirement Costs
<u>BGM-7</u>	Bradley G. Mullins			PSE Response to ICNU DR 24
<u>BGM-8</u>	Bradley G. Mullins			Ardmore Substation 10 Year Planning Documents
<u>BGM-9</u>	Bradley G. Mullins			Ardmore Substation Project Implementation Plan
<u>BGM-10</u>	Bradley G. Mullins			PSE Response to ICNU DR 91, with Attachment B
<u>BGM-11</u>	Bradley G. Mullins			PSE Responses to ICNU DRs 24 (Supplemental), 25, 85, 86, and 87
<u>BGM-12T</u>	Bradley G. Mullins			Prefiled Cross-Answering Testimony of Bradley G. Mullins (16 pages) (8/9/17)
<u>BGM-13</u>	Bradley G. Mullins			Updated Electric Services Revenue Requirement
<u>BGM-14</u>	Bradley G. Mullins			Updated Natural Gas Services Revenue Requirement
<u>BGM-15</u>	Bradley G. Mullins			Updated Colstrip Units 1 and 2 Regulatory Asset Amortization
<u>BGM-16</u>	Bradley G. Mullins			PSE's Supplemental Response to ICNU DR 15
CROSS-EXAMINATION EXHIBITS				
NWEC/RNW/NRDC				
Amanda M. Levin, Energy and Climate Analyst, Natural Resources Defense Council				
<u>AML-1T</u>	Amanda M. Levin			Prefiled Response Testimony of Amanda M. Levin (27 pages) (6/30/17)
<u>AML-2</u>	Amanda M. Levin			Professional Qualifications
<u>AML-3</u>	Amanda M. Levin			1992 Letter from WUTC Staff to NARUC
<u>AML-4</u>	Amanda M. Levin			PSE Response to NWEC/RNW/NRDC DR 43

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<u>AML-5</u>	Amanda M. Levin			PSE Response to NWEC/RNW/NRDC DR 36
<u>AML-6</u>	Amanda M. Levin			PSE Response to NWEC/RNW/NRDC DR 40
<u>AML-7</u>	Amanda M. Levin			Chapter 4 of 2015 IRP
<u>AML-8</u>	Amanda M. Levin			PSE Response to NWEC/RNW/NRDC DR 49, Attachment A
<u>AML-9</u>	Amanda M. Levin			PSE Response to NWEC/RNW/NRDC DR 50
<u>AML-10</u>	Amanda M. Levin			PSE Response to NWEC/RNW/NRDC DR 47
<u>AML-11</u>	Amanda M. Levin			PSE Response to Public Counsel DR 62, Attachment A
<u>AML-12</u>	Amanda M. Levin			PSE Response to Public Counsel DR 60, Part C
<u>AML-13T</u>	Amanda M. Levin			Prefiled Cross-Answering Testimony of Amanda M. Levin (11 pages) (8/9/17)
<u>AML-14</u>	Amanda M. Levin			FEA Response to NWEC/RNW/NRDC DR 1
<u>AML-15</u>	Amanda M. Levin			FEA Response to NWEC/RNW/NRDC DR 3
<u>AML-16</u>	Amanda M. Levin			Direct Testimony of Paul Chernick, Case. No. 16-1852-EL-SSO (May 2, 2017), Public Utilities Council of Ohio (PUCO)
<u>AML-17</u>	Amanda M. Levin			Rebuttal Testimony (Non-Confidential) of Ralph C. Cavanagh, Docket No. UE-121697
<u>AML-18</u>	Amanda M. Levin			Morgan, Pamela, "A Decade of Decoupling for US Energy Utilities: Rate Impacts, Designs, and Observations" (November 2012)
<u>AML-19</u>	Amanda M. Levin			Vilbert, Michael, Joseph B. Wharton, Charles Gibbons, Melanie Rosenberg, and Yang

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				Wei Neo, "The impact of revenue decoupling on the cost of capital for electric utilities: an empirical investigation," BRATTLE GROUP, Prepared for The Energy Foundation (2014)
CROSS-EXAMINATION EXHIBITS				
Michael H. O'Brien, Research Director, Renewable Northwest				
<u>MHO-1T</u>	Michael H. O'Brien			Prefiled Response Testimony of Michael H. O'Brien (3 pages) (6/30/17)
<u>MHO-2</u>	Michael H. O'Brien			Professional Qualifications of Michael H. O'Brien
CROSS-EXAMINATION EXHIBITS				
Thomas M. Power, Research Professor, University of Montana at Missoula				
<u>TMP-1T</u>	Thomas M. Power			Prefiled Response Testimony of Thomas M. Power (48 pages) (6/30/17)
<u>TMP-2</u>	Thomas M. Power			Professional Qualifications of Thomas M. Power
<u>TMP-3</u>	Thomas M. Power			PSE Response to Staff DR 359, Revision 1 of Attachment B
<u>TMP-4</u>	Thomas M. Power			PSE Response to Staff DR 359, Attachment A
<u>TMP-5</u>	Thomas M. Power			PSE Response to Staff DR 185 and Supplemental Response
<u>TMP-6</u>	Thomas M. Power			PSE Response to NWEK/RNW/NRDC DR 10
<u>TMP-7</u>	Thomas M. Power			PSE Response to NWEK/RNW/NRDC DR 11
<u>TMP-8</u>	Thomas M. Power			PSE Response to NWEK/RNW/NRDC DR 12
<u>TMP-9T</u>	Thomas M. Power			Prefiled Cross-Answering

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				Testimony of Thomas M. Power (22 pages) (8/9/17)
<u>TMP-10</u>	Thomas M. Power			PSE Response to ICNU DR 103
<u>TMP-11</u>	Thomas M. Power			PSE Response to ICNU DR 111
<u>TMP-12</u>	Thomas M. Power			PSE Supplemental Response to ICNU DR 111
<u>TMP-13</u>	Thomas M. Power			PSE Response to Staff DR 185
<u>TMP-14C</u>	Thomas M. Power			*** CONFIDENTIAL *** PSE Supplemental Response to Staff DR 185
CROSS-EXAMINATION EXHIBITS				
Cameron B. Yourowski, Senior Policy Manager, Renewable Northwest				
<u>CBY-1T</u>	Cameron B. Yourowski			Prefiled Response Testimony of Cameron B. Yourowski (20 pages) (6/30/17)
<u>CBY-2</u>	Cameron B. Yourowski			Qualifications
<u>CBY-3</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 3(a)
<u>CBY-4</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 2, Attachment C
<u>CBY-5</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 14
<u>CBY-6</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 16
<u>CBY-7</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 17
<u>CBY-8</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 13
<u>CBY-9</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 22
<u>CBY-10</u>	Cameron B. Yourowski			PSE Response to NWEK/RNW/NRDC DR 19
<u>CBY-11</u>	Cameron B. Yourowski			PSE Response to

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				NWEC/RNW/NRDC DR 2, Attachment A
<u>CBY-12</u>	Cameron B. Yourowski			PSE Response to NWEC/RNW/NRDC DR 18
<u>CBY-13</u>	Cameron B. Yourowski			PSE Response to NWEC/RNW/NRDC DR 15
<u>CBY-14</u>	Cameron B. Yourowski			PSE Response to NWEC/RNW/NRDC DR 27
<u>CBY-15</u>	Cameron B. Yourowski			PSE Response to NWEC/RNW/NRDC DR 2, Attachment B
CROSS-EXAMINATION EXHIBITS				
SIERRA CLUB				
Ezra D. Hausman, Independent Consultant, Ezra Hausman Consulting				
<u>EDH-1T</u>	Ezra D. Hausman			Prefiled Response Testimony of Ezra D. Hausman (41 pages) (6/30/17)
<u>EDH-2</u>	Ezra D. Hausman			Professional Qualifications of Ezra D. Hausman
<u>EDH-3</u>	Ezra D. Hausman			Docket UE-072300, Excerpt from Second Exhibit to Prefiled Direct Testimony of C. Richard Clarke
<u>EDH-4</u>	Ezra D. Hausman			Docket UE-072300, Testimony of William H. Weinman
<u>EDH-5</u>	Ezra D. Hausman			Docket UE-072300, Direct Testimony of Charles W. King
<u>EDH-6</u>	Ezra D. Hausman			Docket UE-072300, Prefiled Rebuttal Testimony of Michael J. Jones
<u>EDH-7</u>	Ezra D. Hausman			PSE Responses to DRs
<u>EDH-8</u>	Ezra D. Hausman			PSE Response to Staff DR 459, Attachment A
<u>EDH-9</u>	Ezra D. Hausman			PSE Response to Public Counsel DR 286, Attachment

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<u>EDH-10T</u>	Ezra D. Hausman			Prefiled Cross-Answering Testimony of Ezra D. Hausman (7 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
KROGER				
Kevin C. Higgins, Principal, Energy Strategies, LLC				
<u>KCH-1T</u>	Kevin C. Higgins			Prefiled Response Testimony of Kevin C. Higgins (23 pages) (6/30/17)
<u>KCH-2</u>	Kevin C. Higgins			Comparison of PSE's Proposed Rate Spread and Kroger's Proposed Rate Spread at PSE's Proposed Revenue Requirement
<u>KCH-3</u>	Kevin C. Higgins			Kroger Proposed Rate Schedule 25 Design at PSE Requested Revenue Requirement and Spread
<u>KCH-4T</u>	Kevin C. Higgins			Prefiled Cross-Answering Testimony of Kevin C. Higgins (10 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
FEDERAL EXECUTIVE AGENCIES				
Ali Z. Al-Jabir, Energy Advisor and Senior Consultant, Brubaker & Associates, Inc.				
<u>AZA-1T</u>	Ali Z. Al-Jabir			Prefiled Response Testimony of Ali Z. Al-Jabir (32 pages) (6/30/17)
<u>AZA-2</u>	Ali Z. Al-Jabir			Professional Qualifications of Ali Z. Al-Jabir
<u>AZA-3</u>	Ali Z. Al-Jabir			Electric Class Cost of Service Study Results at Present and Proposed Rates Adjusted Test Year 12 Months Ended September 2016 at Pro Forma

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				Revenue Requirement
<u>AZA-4</u>	Ali Z. Al-Jabir			PSE's Proposed Electric Base Rate Revenue Increase vs. Cost-Based Rates Adjusted Test Year 12 Months Ended September 2016 at Pro Forma Revenue Requirement
<u>AZA-5</u>	Ali Z. Al-Jabir			FEA's Proposed Electric Revenue Allocation Adjusted Test Year 12 Months Ended September 2016 at Pro Forma Revenue Requirement
<u>AZA-6T</u>	Ali Z. Al-Jabir			Prefiled Cross-Answering Testimony of Ali Z. Al-Jabir (10 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
NUCOR STEEL				
CROSS-EXAMINATION EXHIBITS				
STATE OF MONTANA				
Patrick M. Risken, Assistant Attorney General for the State of Montana				
<u>PMR-1T</u>	Patrick M. Risken			Prefiled Cross-Answering Testimony of Patrick M. Risken (12 pages) (8/9/17)
<u>PMR-2</u>	Patrick M. Risken			PSE Response to Public Counsel DR 415
<u>PMR-3</u>	Patrick M. Risken			PSE Response to NWEC/RNW/NRDC DR 5
<u>PMR-4</u>	Patrick M. Risken			PSE Response to

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				NWEC/RNW/NRDC DR 6
<u>PMR-5</u>	Patrick M. Risken			PSE Response to NWEC/RNW/NRDC DR 7
<u>PMR-6</u>	Patrick M. Risken			Staff Response to NWEC/RNW/NRDC DRs 2-9
<u>PMR-7</u>	Patrick M. Risken			June 23, 2017, Letter to Chris Cavazos from Steve Gross, International Union of Operating Engineers
<u>PMR-8</u>	Patrick M. Risken			PSE Response to Sierra Club DR 3
<u>PMR-9</u>	Patrick M. Risken			Governor Gregoire's Executive Order 09-05, Washington's Leadership on Climate Change
<u>PMR-10</u>	Patrick M. Risken			Docket UE-121373, Order 03, Final Order Granting Petition Subject to Conditions
<u>PMR-11</u>	Patrick M. Risken			MOU Between State of Washington and Transalta Centralia Generation LLC (April 26, 2010)
<u>PMR-12</u>	Patrick M. Risken			PSE's Response to NWEC/RNW/NRDC DR 12
<u>PMR-13</u>	Patrick M. Risken			Commission Notice of Ex Parte Communication (August 1, 2017)
CROSS-EXAMINATION EXHIBITS				