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| **BENCH EXHIBITS** | | | | | |
| **BR-1** | Public Counsel |  |  | 1. **Supporting Workpapers (WP-1 and WP-2) for Exhibits RCS-3 and RCS-4** 2. **Public Counsel’s Proposed Adjustments; RCS-3 Supplemental and RCS-4r Supplemental** 3. **Adjustment Reconciliation to JAP-44** | |
| **BR-2** | PSE |  |  | 1. **Summary of FERC Account 928 for 2009** 2. **Supporting Workpapers for Company Adjustments 13.12 and 11.12** | |
| **BR-3** | Staff |  |  | **Exhibits in Native Format:**  **BAE-2**  **BAE-3**  **BAE-4 (Attachment A)**  **BAE-5 (Attachment A)** | |
| **PSE WITNESSES** | | | | | |
| Roque Bamba, Manager, Major Projects, PSE | | | | | |
| **RB-1T** | **Roque Bamba** |  |  | **Prefiled Direct Testimony of Roque Bamba (15 pages)**  **(1/13/17)** | |
| **RB-2** | **Roque Bamba** |  |  | **Professional Qualifications of Roque Bamba** | |
| **RB-3** | **Roque Bamba** |  |  | **Photos of Geologic Conditions** | |
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| **KJB-2** | **Katherine J. Barnard** |  |  | **Professional Qualifications of Katherine J. Barnard** | |
| **KJB-3** | **Katherine J. Barnard** |  |  | **Adj. 3.01: General Rate Increase**  **Adj. 3.02: Pro Forma Cost of Capital**  **Adj. 3.03: Conversion Factor** | |
| **KJB-4** | **Katherine J. Barnard** |  |  | **Adj. 4.01, 4.02, 4.03, 4.04, 4.05, 4.06: Statement of Operating Income and Adjustments** | |
| **KJB-5** | **Katherine J. Barnard** |  |  | **Periodic Allocated Results of Operations; Balance Sheet; Electric Rate Base; Combined Working Capital; Allocation Methods** | |
| **KJB-6** | **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**  **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** | |
| **KJB-7** | **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** | |
| **KJB-8** | **Katherine J. Barnard** |  |  | **Power Cost Baseline Rate** | |
| **KJB-9** | **Katherine J. Barnard** |  |  | **Electric CRM Revenue Requirement Model** | |
| **KJB-10T** | **Katherine J. Barnard** |  |  | **Prefiled Supplemental Testimony of Katherine J. Barnard (13 pages) (4/3/17)** | |
| **KJB-11** | **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** | |
| **KJB-12** | **Katherine J. Barnard** |  |  | **Adj. 12.01, 12.02, 12.03, 12.04, 12.05, 12.06: Updated Statement of Operating Income and Adjustments** | |
| **KJB-13** | **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 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** | |
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| **KJB-15** | **Katherine J. Barnard** |  |  | **Updated Power Cost Baseline Rate** | |
| **KJB-16** | **Katherine J. Barnard** |  |  | **Revenue Deficiency Calculation; Power Cost Baseline Rate Without Microsoft** | |
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| **KJB-22** | **Katherine J. Barnard** |  |  | **Power Cost Adjustment Mechanism Exhibit A-1 Power Cost Rate** | |
| **KJB-23** | **Katherine J. Barnard** |  |  | **Comparison of the Electric Revenue Deficiencies by Adjustment Currently Filed by the Company and Opposing Parties** | |
| **KJB-24** | **Katherine J. Barnard** |  |  | **Excerpts from Staff’s Response to PSE DR 27 – Impact on Staff’s Electric Revenue Requirement for Various Corrections** | |
| **KJB-25** | **Katherine J. Barnard** |  |  | **Staff’s Response to PSE DR 17 – differences between PSE and Staff Related to Depreciation for Colstrip Units 3 and 4** | |
| **KJB-26** | **Katherine J. Barnard** |  |  | **Electric Depreciation Study Adjustment KJB-20 with Colstrip Units 3 and 4 at Varying Probable Retirement Years** | |
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| **KJB-30** | **Katherine J. Barnard** |  |  | **PSE’s Response to Staff DR 134** | |
| **KJB-31** | **Katherine J. Barnard** |  |  | **Staff’s Response to PSE DR 2** | |
| **KJB-32** | **Katherine J. Barnard** |  |  | **Staff’s Response to PSE DR 9** | |
| **KJB-33** | **Katherine J. Barnard** |  |  | **Comparison of PSE’s and Staff’s 6 Year Average Normal Storm Proposals** | |
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| **KJB-36** | **Katherine J. Barnard** |  |  | **Staff’s Response to Public Counsel DRs 2, 4, 6, and 7** | |
| **KJB-37** | **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** | |
| **KJB-38** | **Katherine J. Barnard** |  |  | **Update to Electric Cost Recovery Mechanism Revenue Requirements** | |
| **KJB-39** | **Katherine J. Barnard** |  |  | **ICNU’s Response to PSE’s Response to PSE DR 6** | |
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| **Chun K. Chang, Regulatory Consultant in Pricing and Cost of Service, PSE** | | | | | |
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| **Booga K. Gilbertson, Senior Vice President, Operations, PSE** | | | | | |
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| **Brandon J. Lohse, Corporate Treasurer for PSE** | | | | | |
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| **BJL-4** | **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** | |
| **BJL-5** | **Brandon H. Lohse** |  |  | **Bonds Callable as of 9/30/16** | |
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| **Matthew R. Marcelia, Controller and Principal Accounting Officer** | | | | | |
| **MRM-1T** | **Matthew R. Marcelia** |  |  | **Prefiled Rebuttal Testimony of Matthew R. Marcelia (39 pages) (8/9/17)** | |
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| **David E. Mills, Vice President, Energy Operations for PSE** | | | | | |
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| **Joel L. Molander, Director, IT Business Partner Engagement, PSE** | | | | | |
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| **Roger A. Morin, Emeritus Professor of Finance at Robinson College of Business, Georgia State University** | | | | | |
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| **Michael Mulally, Manager, Business Initiatives, Strategic Initiatives Department** | | | | | |
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| **Jon A. Piliaris, Manager of Pricing and Cost of Service, PSE** | | | | | |
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| **Ronald J. Roberts, Director of Thermal Resources, PSE** | | | | | |
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| **RJR-12** | **Ronald J. Roberts** |  |  | | **“A Bleak Future for Colstrip Units 1 and 2,” Institute for Energy Economics and Financial Analysis, June 2015** |
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| **John J. Spanos, Senior Vice President, Gannett Fleming Valuation and Rate Consultants** | | | | | |
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| **Paul K. Wetherbee, Director, Energy Supply Merchant for PSE** | | | | | |
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| **PKW-18C** | **Paul K. Wetherbee** |  |  | | **\*\*\*CONFIDENTIAL\*\*\***  **Comparisons of Actual Wind Generation with the Preconstruction, 2010 DNV, and 2016 Wind Forecasts** |
| **PKW-19C** | **Paul K. Wetherbee** |  |  | | **\*\*\*CONFIDENTIAL\*\*\***  **Capacity factors for PSE’s Wind Resource from Various Forecasts** |
| **PKW-20C** | **Paul K. Wetherbee** |  |  | | **\*\*\*CONFIDENTIAL\*\*\***  **Vaisala Forecasts for All of PSE’s Owned Wind Resources** |
| **PKW-21C** | **Paul K. Wetherbee** |  |  | | **\*\*\*CONFIDENTIAL\*\*\***  **Updated Summary of Power Costs** |
| **PKW-22C** | **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** |
| **PKW-23C** | **Paul K. Wetherbee** |  |  | | **\*\*\*CONFIDENTIAL\*\*\***  **Comparison of Projected Power Costs Presented in this Rebuttal Testimony with the Projected Power Costs Presented in the 2016 Power Costs Update** |
| **PKW-24C** | **Paul K. Wetherbee** |  |  | | **\*\*\*CONFIDENTIAL\*\*\***  **Projected Power Costs with the Microsoft Special Contract Qualifying Load Removed** |
| **PKW-25C** | **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** | | | | | |
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| **Greg J. Zeller, Director Customer Care, PSE** | | | | | |
| **GJZ-1T** | **Greg J. Zeller** |  |  | | **Prefiled Direct Testimony of Greg J. Zeller (22 pages)**  **(1/13/17)** |
| **GJZ-2** | **Greg J. Zeller** |  |  | | **Professional Qualifications of Greg J. Zeller** |
| **GJZ-3T** | **Greg J. Zeller** |  |  | | **Prefiled Rebuttal Testimony of Greg J. Zeller (21 pages) (8/9/17)** |
| **GJZ-4** | **Greg J. Zeller** |  |  | | **Public Counsel Response to PSE DR 7** |
| **GJZ-5** | **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** | | | | | |
| **JLB-1T** | **Jason L. Ball** |  |  | **Prefiled Response Testimony of Jason L. Ball (56 pages)**  **(6/30/17)** | |
| **JLB-2** | **Jason L. Ball** |  |  | **Comparison of Staff and Company Electric Cost of Service Study Results and Rate Design Proposals** | |
| **JLB-3** | **Jason L. Ball** |  |  | **Comparison of Staff and Company Natural Gas Rates** | |
| **JLB-4C** | **Jason L. Ball** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Seasonal Rate Design Technical Appendix** | |
| **JLB-5** | **Jason L. Ball** |  |  | **Bill Impact of Increased Basic Charge** | |
| **JLB-6** | **Jason L. Ball** |  |  | **Third Block Technical Appendix** | |
| **JLB-7** | **Jason L. Ball** |  |  | **PSE Response to Staff DRs 103 and 104** | |
| **JLB-8T** | **Jason L. Ball** |  |  | **Supplemental Testimony of Jason L. Ball (8/7/17) (8 pages)** | |
| **JLB-9** | **Jason L. Ball** |  |  | **Cross-Walk of Impacts on Cost of Service from Various Updates** | |
| **JLB-10** | **Jason L. Ball** |  |  | **PSE 1st Revised Response to Staff DR 443** | |
| **JLB-11** | **Jason L. Ball** |  |  | **Staff Response to PSE DR 24** | |
| **JLB-12T** | **Jason L. Ball** |  |  | **Prefiled Cross-Answering Testimony of Jason L. Ball (8 pages) (8/9/17)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
|  |  |  |  |  | |
| **Melissa C. Cheesman, Regulatory Analyst** | | | | | |
| **MCC-1T** | **Melissa C. Cheesman** |  |  | **Prefiled Response Testimony of Melissa C. Cheesman**  **(30 pages) (6/30/17)** | |
| **MCC-2** | **Melissa C. Cheesman** |  |  | **Electric Results of Operations for 12 Months Ending 9/30/16** | |
| **MCC-3** | **Melissa C. Cheesman** |  |  | **Calculation of Electric Revenue Requirement Sufficiency** | |
| **MCC-4** | **Melissa C. Cheesman** |  |  | **Comparison of PSE-Staff Electric Revenue Requirements** | |
| **MCC-5** | **Melissa C. Cheesman** |  |  | **Comparison of PSE-Staff Working Capital (Electric)** | |
| **MCC-6** | **Melissa C. Cheesman** |  |  | **PSE Requested Overall Electric Revenue Sufficiency** | |
| **MCC-7** | **Melissa C. Cheesman** |  |  | **Gas Results of Operations for 12 Months Ending 9/30/16** | |
| **MCC-8** | **Melissa C. Cheesman** |  |  | **Calculation of Gas Revenue Requirement Deficiency** | |
| **MCC-9** | **Melissa C. Cheesman** |  |  | **Comparison of PSE-Staff Gas Revenue Requirements** | |
| **MCC-10** | **Melissa C. Cheesman** |  |  | **Comparison of PSE-Staff Working Capital (Gas)** | |
| **MCC-11** | **Melissa C. Cheesman** |  |  | **PSE Requested Overall Gas Revenue Sufficiency** | |
| **MCC-12** | **Melissa C. Cheesman** |  |  | **Electric Revenue Bridge** | |
| **MCC-13** | **Melissa C. Cheesman** |  |  | **Gas Revenue Bridge** | |
| **MCC-14** | **Melissa C. Cheesman** |  |  | **PSE Response to Staff DR 382** | |
| **MCC-15** | **Melissa C. Cheesman** |  |  | **PSE Response to Staff DR 382** | |
| **MCC-16** | **Melissa C. Cheesman** |  |  | **PSE Response to Staff DR 371** | |
| **MCC-17** | **Melissa C. Cheesman** |  |  | **PSE Response to Staff DR 372** | |
| **MCC-18** | **Melissa C. Cheesman** |  |  | **PSE Witness, Ms. Susan Free Natural Gas Work Paper Adjustment 11.13** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Betty A. Erdahl, Regulatory Analyst** | | | | | |
| **BAE-1T** | **Betty A. Erdahl** |  |  | **Prefiled Response Testimony of Betty A. Erdahl (16 pages)**  **(6/30/17)** | |
| **BAE-2** | **Betty A. Erdahl** |  |  | **Comparison of Staff and PSE Working Capital Adjustments** | |
| **BAE-3** | **Betty A. Erdahl** |  |  | **Detailed Staff Working Capital Calculation 13.23 and 11.23** | |
| **BAE-4** | **Betty A. Erdahl** |  |  | **PSE Response to Staff DR 337** | |
| **BAE-5** | **Betty A. Erdahl** |  |  | **PSE Response to Staff DR 339** | |
| **BAE-6** | **Betty A. Erdahl** |  |  | **PSE Response to Staff DR 204** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Kyle A. Frankiewich, Regulatory Analyst** | | | | | |
| **KAF-1T** | **Kyle A. Frankiewich** |  |  | **Prefiled Response Testimony of Kyle A. Frankiewich**  **(31 pages) (6/30/17)** | |
| **KAF-2** | **Kyle A. Frankiewich** |  |  | **PSE’s Response to Public Counsel DR 290** | |
| **KAF-3** | **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)** | |
| **KAF-4** | **Kyle A. Frankiewich** |  |  | **PSE Response to Staff DR 327 (Including Attachment A)** | |
| **KAF-5** | **Kyle A. Frankiewich** |  |  | **PSE Response to Staff DR 331** | |
| **KAF-6** | **Kyle A. Frankiewich** |  |  | **PSE Response to Staff DR 329** | |
| **KAF-7** | **Kyle A. Frankiewich** |  |  | **PSE First Supplemental Response to Staff DR 328 (Including Attachment E)** | |
| **KAF-8** | **Kyle A. Frankiewich** |  |  | **Staff Example of Variance in Reasonable Estimates of CAR Baseline (expansion of Exh. PKW-5)** | |
| **KAF-9** | **Kyle A. Frankiewich** |  |  | **PSE Response to Staff DR 419** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **David C. Gomez, Assistant Power Supply Manager** | | | | | |
| **DCG-1TC** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Confidential Prefiled Response Testimony of David C. Gomez (35 pages) (6/30/17)** | |
| **DCG-2** | **David C. Gomez** |  |  | **PSE 2015 IRP, Appendix D** | |
| **DCG-3C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 175, Attachments A&B** | |
| **DCG-4C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 177** | |
| **DCG-5** | **David C. Gomez** |  |  | **PSE Response to Staff DR 177, Attachment G** | |
| **DCG-6** | **David C. Gomez** |  |  | **PSE Response to Staff DR 177, Attachment C** | |
| **DCG-7C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 176, Attachments C-F** | |
| **DCG-8C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 259** | |
| **DCG-9C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 176, Attachment G** | |
| **DCG-10** | **David C. Gomez** |  |  | **2015 Wind Technologies Market Report, p. 41** | |
| **DCG-11C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 311, Attachments B-F** | |
| **DCG-12C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 177, Attachment A** | |
| **DCG-13C** | **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** | |
| **DCG-14** | **David C. Gomez** |  |  | **Portions of Testimony of David E. Mills, Exh. DEM-11TC, in Dockets UE-111048 and UG-111049** | |
| **DCG-15C** | **David C. Gomez** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Portions of Testimony of David E. Mills, Exh. DEM-1TC, in Dockets UE-111048 and UG-111049** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Christopher S. Hancock, Regulatory Analyst** | | | | | |
| **CSH-1TC** | **Christopher S. Hancock** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Confidential Prefiled Testimony of Christopher S. Hancock (30 pages)**  **(6/30/17)** | |
| **CSH-2C** | **Christopher S. Hancock** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 185** | |
| **CSH-3** | **Christopher S. Hancock** |  |  | **PSE Response to Staff DR 143** | |
| **CSH-4** | **Christopher S. Hancock** |  |  | **PSE Response to Staff DR 16** | |
| **CSH-5** | **Christopher S. Hancock** |  |  | **Montana Response to Staff DR 13** | |
| **CSH-6T** | **Christopher S. Hancock** |  |  | **Prefiled Cross-Answering Testimony of Christopher S. Hancock (9 pages) (8/9/17)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Jing Liu, Regulatory Analyst** | | | | | |
| **JL-1TC** | **Jing Liu** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Confidential Prefiled Response Testimony of Jing Liu (76 pages) (6/30/17)**  **(Revised 7/11/17)** | |
| **JL-2** | **Jing Liu** |  |  | **Output of Electric Temperature Normalization Models** | |
| **JL-3** | **Jing Liu** |  |  | **Calculation of Electric Temperature Normalization Adjustment** | |
| **JL-4** | **Jing Liu** |  |  | **Calculation of Gas Temperature Normalization Adjustment** | |
| **JL-5** | **Jing Liu** |  |  | **Output of Gas Temperature Normalization Models Using Ten Year Data** | |
| **JL-6** | **Jing Liu** |  |  | **Comparison of Ten Year and Five Year Models for Natural Gas Temperature Normalization** | |
| **JL-7C** | **Jing Liu** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Production Cost Trend Analysis** | |
| **JL-8** | **Jing Liu** |  |  | **Summary of PSE’s Electric Non-Residential Proposed Grouping Backcast** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Chris R. McGuire, Energy Policy Strategist** | | | | | |
| **CRM-1T** | **Chris R. McGuire** |  |  | **Prefiled Response Testimony of Chris R. McGuire**  **(37 pages) (6/30/17)** | |
| **CRM-2** | **Chris R. McGuire** |  |  | **Colstrip 1 & 2 Pro Rata Depreciation Estimate** | |
| **CRM-3** | **Chris R. McGuire** |  |  | **Colstrip 1 & 2 Regulatory Asset** | |
| **CRM-4** | **Chris R. McGuire** |  |  | **Report to the Audit Committees (Excerpt)** | |
| **CRM-5** | **Chris R. McGuire** |  |  | **PSE Response to Public Counsel DR 424** | |
| **CRM-6T** | **Chris R. McGuire** |  |  | **Prefiled Cross-Answering Testimony of Chris R. McGuire (13 pages) (8/9/17)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Elizabeth C. O’Connell, Regulatory Analyst** | | | | | |
| **ECO-1TC** | **Elizabeth C. O’Connell** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Confidential Prefiled Direct Testimony of Elizabeth C. O’Connell (33 pages)**  **(6/30/17)** | |
| **ECO-2C** | **Elizabeth C. O’Connell** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Staff’s Proposed Environmental Remediation Adjustments** | |
| **ECO-3** | **Elizabeth C. O’Connell** |  |  | **Environmental Remediation Commission Orders, Start Dates, and Costs** | |
| **ECO-4** | **Elizabeth C. O’Connell** |  |  | **PSE Environmental Remediation Quarterly Reports, Q1 2017** | |
| **ECO-5** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 279** | |
| **ECO-6** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 284** | |
| **ECO-7** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 282** | |
| **ECO-8** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 280** | |
| **ECO-9** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 270 and 271** | |
| **ECO-10C** | **Elizabeth C. O’Connell** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 401, Attachment W** | |
| **ECO-11** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 278** | |
| **ECO-12** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 269, Attachment A** | |
| **ECO-13C** | **Elizabeth C. O’Connell** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Tacoma Tide Flats Letter** | |
| **ECO-14C** | **Elizabeth C. O’Connell** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 401, Attachment K** | |
| **ECO-15** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 281** | |
| **ECO-16** | **Elizabeth C. O’Connell** |  |  | **Washington Natural Gas and PSE’s Environmental Projects Quarterly Reports Excluding Tacoma Tide Flats** | |
| **ECO-17** | **Elizabeth C. O’Connell** |  |  | **PSE’s Summary of Environmental Remediation Costs for Gas Sites Including Tacoma Tide Flats, 12/31/97** | |
| **ECO-18** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 364, Attachment A** | |
| **ECO-19** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 364** | |
| **ECO-20** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 221** | |
| **ECO-21** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 312 and 408** | |
| **ECO-22** | **Elizabeth C. O’Connell** |  |  | **Staff’s Proposed Legal Costs Adjustments** | |
| **ECO-23** | **Elizabeth C. O’Connell** |  |  | **PSE Response to Staff DR 218, Attachment A** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **David C. Parcell, Senior Economist, Technical Associates, Inc.** | | | | | |
| **DCP-1T** | **David C. Parcell** |  |  | **Prefiled Response Testimony of David C. Parcell (55 pages)**  **(6/30/17)** | |
| **DCP-2** | **David C. Parcell** |  |  | **Background and Experience** | |
| **DCP-3** | **David C. Parcell** |  |  | **PSE Total Cost of Capital** | |
| **DCP-4** | **David C. Parcell** |  |  | **Economic Indicators** | |
| **DCP-5** | **David C. Parcell** |  |  | **PSE History of Credit Ratings** | |
| **DCP-6** | **David C. Parcell** |  |  | **PSE Capital Structure Ratios** | |
| **DCP-7** | **David C. Parcell** |  |  | **Proxy Companies Average Common Equity Ratios** | |
| **DCP-8** | **David C. Parcell** |  |  | **Proxy Companies Basis for Selection** | |
| **DCP-9** | **David C. Parcell** |  |  | **Proxy Companies DCF Cost Rates** | |
| **DCP-10** | **David C. Parcell** |  |  | **Standard & Poor’s 500 ROE and 20-Year Treasury Bond Returns** | |
| **DCP-11** | **David C. Parcell** |  |  | **Proxy Companies CAPM Cost Rates** | |
| **DCP-12** | **David C. Parcell** |  |  | **Proxy Companies ROE and Market to Book Ratios** | |
| **DCP-13** | **David C. Parcell** |  |  | **Standard & Poor’s 500 ROE and Market to Book Ratios** | |
| **DCP-14** | **David C. Parcell** |  |  | **Risk Indicators** | |
| **DCP-15** | **David C. Parcell** |  |  | **Risk Indicators of Electric Utilities by Size** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Andrew Roberts, Regulatory Analyst** | | | | | |
| **AR-1T** | **Andrew Roberts** |  |  | **Prefiled Response Testimony of Andrew Roberts (9 pages)**  **(6/30/17)** | |
| **AR-2** | **Andrew Roberts** |  |  | **PSE Response to Staff DR 387** | |
| **AR-3** | **Andrew Roberts** |  |  | **PSE Response to Staff DR 468** | |
| **AR-4** | **Andrew Roberts** |  |  | **PSE Response to Staff DR 43** | |
| **AR-5** | **Andrew Roberts** |  |  | **PSE Response to Staff DR 40** | |
| **AR-6** | **Andrew Roberts** |  |  | **PSE Response to Staff DR 44** | |
| **AR-7** | **Andrew Roberts** |  |  | **Effect of IVR Transaction Data on SQI No. 5 Calculation** | |
| **AR-8** | **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** | |
| **AR-9** | **Andrew Roberts** |  |  | **PSE Response to Staff DR 386** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Thomas E. Schooley, Assistant Director – Energy Regulation, Regulatory Services Division** | | | | | |
| **TES-1T** | **Thomas E. Schooley** |  |  | **Prefiled Response Testimony of Thomas E. Schooley**  **(31 pages) (6/30/17)** | |
| **TES-2** | **Thomas E. Schooley** |  |  | **Charts of Storm Events** | |
| **TES-3** | **Thomas E. Schooley** |  |  | **Storm Damage Expenses by Periods Ending September 30** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Jennifer Snyder, Regulatory Analyst** | | | | | |
| **JES-1T** | **Jennifer Snyder** |  |  | **Prefiled Response Testimony of Jennifer Snyder (8 pages) (6/30/17)** | |
| **JES-2** | **Jennifer Snyder** |  |  | **PSE Response to Staff DR 253** | |
| **JES-3** | **Jennifer Snyder** |  |  | **PSE Response to Staff DR 394** | |
| **JES-4C** | **Jennifer Snyder** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **PSE Response to Staff DR 252, Attachment A** | |
| **JES-5** | **Jennifer Snyder** |  |  | **PSE Response to Staff DR 392** | |
| **JES-6** | **Jennifer Snyder** |  |  | **PSE Supplemental Response to Staff DR 392** | |
| **JES-7** | **Jennifer Snyder** |  |  | **Lazard, “Lazard’s Levelized Cost of Storage Analysis 2.0 – Key Findings”** | |
| **JES-8** | **Jennifer Snyder** |  |  | **PSE Response to Staff DR 247** | |
| **JES-9** | **Jennifer Snyder** |  |  | **PSE Response to Staff DR 250** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **E. Cooper Wright, Regulatory Analyst** | | | | | |
| **ECW-1T** | **E. Cooper Wright** |  |  | **Prefiled Response Testimony of E. Cooper Wright (27 pages) (6/30/17)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **PUBLIC COUNSEL** | | | | | |
| **Barbara R. Alexander, Independent Consultant** | | | | | |
| **BRA-1T** | **Barbara R. Alexander** |  |  | **Prefiled Response Testimony of Barbara R. Alexander**  **(33 pages) (6/30/17)** | |
| **BRA-2** | **Barbara R. Alexander** |  |  | **Resume** | |
| **BRA-3** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 22** | |
| **BRA-4** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 19, Attachment A** | |
| **BRA-5** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 27, Attachments B, C, and D** | |
| **BRA-6** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 14** | |
| **BRA-7** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 15** | |
| **BRA-8** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 443** | |
| **BRA-9** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 28, Attachment A** | |
| **BRA-10** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 358** | |
| **BRA-11** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 363, Attachment A** | |
| **BRA-12** | **Barbara R. Alexander** |  |  | **Customer Care Center Abandonment Rate Data** | |
| **BRA-13** | **Barbara R. Alexander** |  |  | **Copy of PAC Customer Service Guarantees** | |
| **BRA-14** | **Barbara R. Alexander** |  |  | **Code of Maryland Regulations, 20.50.12.08** | |
| **BRA-15** | **Barbara R. Alexander** |  |  | **Pennsylvania PUC Customer Service Report** | |
| **BRA-16** | **Barbara R. Alexander** |  |  | **Xcel Energy Tariffs: Sections 6 and 1.9** | |
| **BRA-17** | **Barbara R. Alexander** |  |  | **PSE Response to Staff DR 43** | |
| **BRA-18** | **Barbara R. Alexander** |  |  | **PSE Response to Staff DR 468** | |
| **BRA-19** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 13** | |
| **BRA-20** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 361** | |
| **BRA-21** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 362** | |
| **BRA-22** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 25, Attachments A and B** | |
| **BRA-23** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 56** | |
| **BRA-24** | **Barbara R. Alexander** |  |  | **PSE Response to Public Counsel DR 6** | |
| **BRA-25** | **Barbara R. Alexander** |  |  | **PSE Responses to Public Counsel DRs 9, 10, 42, and 43** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Michael L. Brosch, President, Utilitech, Inc.** | | | | | |
| **MLB-1T** | **Michael L. Brosch** |  |  | **Prefiled Response Testimony of Michael L. Brosch**  **(70 pages) (6/30/17)** | |
| **MLB-2** | **Michael L. Brosch** |  |  | **Qualifications** | |
| **MLB-3** | **Michael L. Brosch** |  |  | **PSE Response to Public Counsel DR 62, with Attachment A** | |
| **MLB-4** | **Michael L. Brosch** |  |  | **Hawaiian Electric Company RBA Tariff** | |
| **MLB-5** | **Michael L. Brosch** |  |  | **PSE Responses to Public Counsel DRs 61 and 283** | |
| **MLB-6** | **Michael L. Brosch** |  |  | **PSE Responses to Public Counsel DRs 48, 51, and 73** | |
| **MLB-7** | **Michael L. Brosch** |  |  | **Puget Energy/PSE 2016 Year End Update Presentation** | |
| **MLB-8** | **Michael L. Brosch** |  |  | **PSE Responses to Public Counsel DRs 71, 72, and 75** | |
| **MLB-9** | **Michael L. Brosch** |  |  | **PSE Response to Public Counsel DR 388** | |
| **MLB-10** | **Michael L. Brosch** |  |  | **PSE Response to Public Counsel DR 393, with Attachment A** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Roxie M. McCullar, CPA and Consultant, William Dunkel and Associates** | | | | | |
| **RMM-1T** | **Roxie M. McCullar** |  |  | **Prefiled Response Testimony of Roxie M. McCullar**  **(31 pages) (6/30/17)** | |
| **RMM-2** | **Roxie M. McCullar** |  |  | **Qualifications** | |
| **RMM-3** | **Roxie M. McCullar** |  |  | **Comparison of Current Approved, PSE Proposed, and Public Counsel Proposed Accrual Rate and Annual Accrual Amounts** | |
| **RMM-4** | **Roxie M. McCullar** |  |  | **Public Counsel’s Proposed Depreciation Rates for PSE’s Electric Plant** | |
| **RMM-5** | **Roxie M. McCullar** |  |  | **Public Counsel’s Proposed Depreciation Rates for PSE’s Natural Gas Plant** | |
| **RMM-6** | **Roxie M. McCullar** |  |  | **Referenced Pages from NARUC’s Public Utility Depreciation Practices (August 1996)** | |
| **RMM-7** | **Roxie M. McCullar** |  |  | **PSE Response to ICNU DR 27, Attachment A (PSE – 2016 – Production Net Salvage Calculations)** | |
| **RMM-8** | **Roxie M. McCullar** |  |  | **Comparison of PSE Proposed Future Net Salvage Accrual and Average Net Salvage Actually Incurred in Recent Years for Natural Gas Plant** | |
| **RMM-9** | **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** | |
| **RMM-10** | **Roxie M. McCullar** |  |  | **Comparison of PSE Proposed Future Net Salvage Accrual and Average Net Salvage Actually Incurred in Recent Years for Electric Plant** | |
| **RMM-11** | **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** | |
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| **Ralph C. Smith, CPA and Senior Regulatory Utility Consultant, Larkin & Associates, PLLC** | | | | | |
| **RCS-1TC** | **Ralph C. Smith** |  |  | **\*\*\*CONFIDENTIAL\*\*\* Confidential Prefiled Response Testimony of Ralph C. Smith (89 pages) (6/30/17)** | |
| **RCS-2** | **Ralph C. Smith** |  |  | **Qualifications** | |
| **RCS-3** | **Ralph C. Smith** |  |  | **Electric Revenue Requirement** | |
| **RCS-4** | **Ralph C. Smith** |  |  | **Natural Gas Revenue Requirement** | |
| **RCS-5** | **Ralph C. Smith** |  |  | **PSE Responses to Public Counsel DR 297 and ICNU DRs 63, 65, and 67** | |
| **RCS-6** | **Ralph C. Smith** |  |  | **PSE Responses to Staff DRs 6 and 46** | |
| **RCS-7** | **Ralph C. Smith** |  |  | **PSE Responses to Public Counsel DR 126 and ICNU DR 60** | |
| **RCS-8C** | **Ralph C. Smith** |  |  | **\*\*\*CONFIDENTIAL\*\*\* PSE Responses to ICNU DRs 56 and 57 (with Attachment A) and Staff DR 212** | |
| **RCS-9** | **Ralph C. Smith** |  |  | **PSE Responses to Staff DR 278 (with Attachment A) and 284** | |
| **RCS-10C** | **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** | |
| **RCS-11C** | **Ralph C. Smith** |  |  | **\*\*\*CONFIDENTIAL\*\*\* Colstrip Strategic Planning Update, dated 3/2/17** | |
| **RCS-12C** | **Ralph C. Smith** |  |  | **\*\*\*CONFIDENTIAL\*\*\***  **Analysis of Pension Plans** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **Glenn A. Watkins, Principal and Senior Economist, Technical Associates, Inc.** | | | | | |
| **GAW-1T** | **Glenn A. Watkins** |  |  | **Prefiled Response Testimony of Glenn A. Watkins**  **(70 pages) (6/30/17)** | |
| **GAW-2** | **Glenn A. Watkins** |  |  | **Background and Experience Profile** | |
| **GAW-3** | **Glenn A. Watkins** |  |  | **Public Counsel DR 300** | |
| **GAW-4** | **Glenn A. Watkins** |  |  | **Public Counsel DR 301** | |
| **GAW-5** | **Glenn A. Watkins** |  |  | **PSE Wind/Hydro Production During Peak Hours** | |
| **GAW-6** | **Glenn A. Watkins** |  |  | **Base-Intermediate-Peak Classification** | |
| **GAW-7** | **Glenn A. Watkins** |  |  | **Gross Plant and Depreciation Reserve Hourly Assignments** | |
| **GAW-8** | **Glenn A. Watkins** |  |  | **Probability of Dispatch Summary of Class Allocation Factors** | |
| **GAW-9** | **Glenn A. Watkins** |  |  | **Probability of Dispatch Class Cost of Service Study** | |
| **GAW-10** | **Glenn A. Watkins** |  |  | **Class Cost of Service Studies Parity Ratios** | |
| **GAW-11** | **Glenn A. Watkins** |  |  | **Electric Residential Customer Cost Analysis** | |
| **GAW-12** | **Glenn A. Watkins** |  |  | **Natural Gas Residential Customer Cost Analysis** | |
| **GAW-13T** | **Glenn A. Watkins** |  |  | **Prefiled Cross-Answering Testimony of Glenn A. Watkins (10 pages) (8/9/17)** | |
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| **J. Randall Woolridge, Professor of Finance, Pennsylvania State University** | | | | | |
| **JRW-1T** | **J. Randall Woolridge** |  |  | **Prefiled Response Testimony of J. Randall Woolridge**  **(75 pages) (6/30/17)** | |
| **JRW-2** | **J. Randall Woolridge** |  |  | **Background & Experience Profile** | |
| **JRW-3** | **J. Randall Woolridge** |  |  | **Recommended Cost of Capital** | |
| **JRW-4** | **J. Randall Woolridge** |  |  | **Ten Year Treasury Yield** | |
| **JRW-5** | **J. Randall Woolridge** |  |  | **Public Utility Bond Yields** | |
| **JRW-6** | **J. Randall Woolridge** |  |  | **Summary Financial Statistics for Proxy Groups** | |
| **JRW-7** | **J. Randall Woolridge** |  |  | **Capital Structures Ratios and Debt Cost Rates** | |
| **JRW-8** | **J. Randall Woolridge** |  |  | **Relationship Between Expected ROE and Market-to-Book Ratios** | |
| **JRW-9** | **J. Randall Woolridge** |  |  | **Public Utility Capital Cost Indicators** | |
| **JRW-10** | **J. Randall Woolridge** |  |  | **Industry Average Betas** | |
| **JRW-11** | **J. Randall Woolridge** |  |  | **Discount Cash Flow Model** | |
| **JRW-12** | **J. Randall Woolridge** |  |  | **Discount Cash Flow Study** | |
| **JRW-13** | **J. Randall Woolridge** |  |  | **Capital Asset Pricing Model Study** | |
| **JRW-14** | **J. Randall Woolridge** |  |  | **PSE’s Proposed Cost of Capital** | |
| **JRW-15** | **J. Randall Woolridge** |  |  | **PSE ROE Results** | |
| **JRW-16** | **J. Randall Woolridge** |  |  | **PSE Response to Public Counsel DR 333** | |
| **JRW-17T** | **J. Randall Woolridge** |  |  | **Prefiled Cross-Answering Testimony of J. Randall Woolridge (12 pages) (8/9/17)** | |
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| **THE ENERGY PROJECT** | | | | | |
| **Shawn M. Collins, Director, The Energy Project** | | | | | |
| **SMC-1T** | **Shawn M. Collins** |  |  | **Prefiled Response Testimony of Shawn M. Collins  (32 pages) (6/30/17)** | |
| **SMC-2** | **Shawn M. Collins** |  |  | **Professional Qualifications** | |
| **SMC-3T** | **Shawn M. Collins** |  |  | **Prefiled Cross-Answering Testimony of Shawn M. Collins (9 pages) (8/9/17)** | |
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| **ICNU** | | | | | |
| **Michael P. Gorman, Consultant and Managing Principal, Brubaker & Associates, Inc.** | | | | | |
| **MPG-1T** | **Michael P. Gorman** |  |  | **Prefiled Response Testimony of Michael P. Gorman  (44 pages) (6/30/17)** | |
| **MPG-2** | **Michael P. Gorman** |  |  | **Professional Qualifications** | |
| **MPG-3** | **Michael P. Gorman** |  |  | **Treasury and Utility Bond Yields** | |
| **MPG-4** | **Michael P. Gorman** |  |  | **Valuation Metrics** | |
| **MPG-5** | **Michael P. Gorman** |  |  | **Accuracy of Interest Rate Forecasts** | |
| **MPG-6** | **Michael P. Gorman** |  |  | **ICNU’s Proposed Electric Revenue Distribution** | |
| **MPG-7T** | **Michael P. Gorman** |  |  | **Prefiled Cross-Answering Testimony of Michael P. Gorman (13 pages) (8/9/17)** | |
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| **NWIGU** | | | | | |
| **Brian C. Collins, Consultant and Principal, Brubaker & Associates, Inc.** | | | | | |
| **BCC-1T** | **Brian C. Collins** |  |  | **Prefiled Response Testimony of Brian C. Collins  (19 pages) (6/30/17)** | |
| **BCC-2** | **Brian C. Collins** |  |  | **Qualifications** | |
| **BCC-3** | **Brian C. Collins** |  |  | **Proposed Class Cost of Service** | |
| **BCC-4** | **Brian C. Collins** |  |  | **Proposed Class Margin Revenue Allocation** | |
| **BCC-5T** | **Brian C. Collins** |  |  | **Prefiled Cross-Answering Testimony of Brian C. Collins (8/9/17) (9 pages)** | |
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| **ICNU AND NWIGU** | | | | | |
| **Bradley G. Mullins, Independent Consultant** | | | | | |
| **BGM-1TCr** | **Bradley G. Mullins** |  |  | **\*\*\* CONFIDENTIAL\*\*\***  **Prefiled Response Testimony of Bradley G. Mullins (56 pages) (6/30/17) (Revised 7/7/17)** | |
| **BGM-2** | **Bradley G. Mullins** |  |  | **List of Regulatory Appearances** | |
| **BGM-3** | **Bradley G. Mullins** |  |  | **Electric Services Revenue Requirement** | |
| **BGM-4** | **Bradley G. Mullins** |  |  | **Natural Gas Services Revenue Requirement** | |
| **BGM-5C** | **Bradley G. Mullins** |  |  | **\*\*\* CONFIDENTIAL\*\*\***  **PSE Responses to DRs** | |
| **BGM-6** | **Bradley G. Mullins** |  |  | **Proposed Amortization Schedule of Early Retirement Costs** | |
| **BGM-7** | **Bradley G. Mullins** |  |  | **PSE Response to ICNU DR 24** | |
| **BGM-8** | **Bradley G. Mullins** |  |  | **Ardmore Substation 10 Year Planning Documents** | |
| **BGM-9** | **Bradley G. Mullins** |  |  | **Ardmore Substation Project Implementation Plan** | |
| **BGM-10** | **Bradley G. Mullins** |  |  | **PSE Response to ICNU DR 91, with Attachment B** | |
| **BGM-11** | **Bradley G. Mullins** |  |  | **PSE Responses to ICNU DRs 24 (Supplemental), 25, 85, 86, and 87** | |
| **BGM-12T** | **Bradley G. Mullins** |  |  | **Prefiled Cross-Answering Testimony of Bradley G. Mullins (16 pages) (8/9/17)** | |
| **BGM-13** | **Bradley G. Mullins** |  |  | **Updated Electric Services Revenue Requirement** | |
| **BGM-14** | **Bradley G. Mullins** |  |  | **Updated Natural Gas Services Revenue Requirement** | |
| **BGM-15** | **Bradley G. Mullins** |  |  | **Updated Colstrip Units 1 and 2 Regulatory Asset Amortization** | |
| **BGM-16** | **Bradley G. Mullins** |  |  | **PSE’s Supplemental Response to ICNU DR 15** | |
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| **NWEC/RNW/NRDC** | | | | | |
| **Amanda M. Levin, Energy and Climate Analyst, Natural Resources Defense Council** | | | | | |
| **AML-1T** | **Amanda M. Levin** |  |  | **Prefiled Response Testimony of Amanda M. Levin**  **(27 pages) (6/30/17)** | |
| **AML-2** | **Amanda M. Levin** |  |  | **Professional Qualifications** | |
| **AML-3** | **Amanda M. Levin** |  |  | **1992 Letter from WUTC Staff to NARUC** | |
| **AML-4** | **Amanda M. Levin** |  |  | **PSE Response to NWEC/RNW/NRDC DR 43** | |
| **AML-5** | **Amanda M. Levin** |  |  | **PSE Response to NWEC/RNW/NRDC DR 36** | |
| **AML-6** | **Amanda M. Levin** |  |  | **PSE Response to NWEC/RNW/NRDC DR 40** | |
| **AML-7** | **Amanda M. Levin** |  |  | **Chapter 4 of 2015 IRP** | |
| **AML-8** | **Amanda M. Levin** |  |  | **PSE Response to NWEC/RNW/NRDC DR 49, Attachment A** | |
| **AML-9** | **Amanda M. Levin** |  |  | **PSE Response to NWEC/RNW/NRDC DR 50** | |
| **AML-10** | **Amanda M. Levin** |  |  | **PSE Response to NWEC/RNW/NRDC DR 47** | |
| **AML-11** | **Amanda M. Levin** |  |  | **PSE Response to Public Counsel DR 62, Attachment A** | |
| **AML-12** | **Amanda M. Levin** |  |  | **PSE Response to Public Counsel DR 60, Part C** | |
| **AML-13T** | **Amanda M. Levin** |  |  | **Prefiled Cross-Answering Testimony of Amanda M. Levin (11 pages) (8/9/17)** | |
| **AML-14** | **Amanda M. Levin** |  |  | **FEA Response to NWEC/RNW/NRDC DR 1** | |
| **AML-15** | **Amanda M. Levin** |  |  | **FEA Response to NWEC/RNW/NRDC DR 3** | |
| **AML-16** | **Amanda M. Levin** |  |  | **Direct Testimony of Paul Chernick, Case. No. 16-1852-EL-SSO (May 2, 2017), Public Utilities Council of Ohio (PUCO)** | |
| **AML-17** | **Amanda M. Levin** |  |  | **Rebuttal Testimony (Non-Confidential) of Ralph C. Cavanagh, Docket No. UE-121697** | |
| **AML-18** | **Amanda M. Levin** |  |  | **Morgan, Pamela, “A Decade of Decoupling for US Energy Utilities: Rate Impacts, Designs, and Observations” (November 2012)** | |
| **AML-19** | **Amanda M. Levin** |  |  | **Vilbert, Michael, Joseph B. Wharton, Charles Gibbons, Melanie Rosenberg, and Yang 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** | | | | | |
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| **Michael H. O’Brien, Research Director, Renewable Northwest** | | | | | |
| **MHO-1T** | **Michael H. O’Brien** |  |  | **Prefiled Response Testimony of Michael H. O’Brien  (3 pages) (6/30/17)** | |
| **MHO-2** | **Michael H. O’Brien** |  |  | **Professional Qualifications of Michael H. O’Brien** | |
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| **Thomas M. Power, Research Professor, University of Montana at Missoula** | | | | | |
| **TMP-1T** | **Thomas M. Power** |  |  | **Prefiled Response Testimony of Thomas M. Power  (48 pages) (6/30/17)** | |
| **TMP-2** | **Thomas M. Power** |  |  | **Professional Qualifications of Thomas M. Power** | |
| **TMP-3** | **Thomas M. Power** |  |  | **PSE Response to Staff DR 359, Revision 1 of Attachment B** | |
| **TMP-4** | **Thomas M. Power** |  |  | **PSE Response to Staff DR 359, Attachment A** | |
| **TMP-5** | **Thomas M. Power** |  |  | **PSE Response to Staff DR 185 and Supplemental Response** | |
| **TMP-6** | **Thomas M. Power** |  |  | **PSE Response to NWEC/RNW/NRDC DR 10** | |
| **TMP-7** | **Thomas M. Power** |  |  | **PSE Response to NWEC/RNW/NRDC DR 11** | |
| **TMP-8** | **Thomas M. Power** |  |  | **PSE Response to NWEC/RNW/NRDC DR 12** | |
| **TMP-9T** | **Thomas M. Power** |  |  | **Prefiled Cross-Answering Testimony of Thomas M. Power (22 pages) (8/9/17)** | |
| **TMP-10** | **Thomas M. Power** |  |  | **PSE Response to ICNU DR 103** | |
| **TMP-11** | **Thomas M. Power** |  |  | **PSE Response to ICNU DR 111** | |
| **TMP-12** | **Thomas M. Power** |  |  | **PSE Supplemental Response to ICNU DR 111** | |
| **TMP-13** | **Thomas M. Power** |  |  | **PSE Response to Staff DR 185** | |
| **TMP-14C** | **Thomas M. Power** |  |  | **\*\*\* CONFIDENTIAL\*\*\***  **PSE Supplemental Response to Staff DR 185** | |
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| **TMP-\_\_\_** | **Montana** |  |  | **Montana Response to Staff Data Request No. 8 (35 pages) (4/17/17)** | |
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| **Cameron B. Yourowski, Senior Policy Manager, Renewable Northwest** | | | | | |
| **CBY-1T** | **Cameron B. Yourowski** |  |  | **Prefiled Response Testimony of Cameron B. Yourowski  (20 pages) (6/30/17)** | |
| **CBY-2** | **Cameron B. Yourowski** |  |  | **Qualifications** | |
| **CBY-3** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 3(a)** | |
| **CBY-4** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 2, Attachment C** | |
| **CBY-5** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 14** | |
| **CBY-6** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 16** | |
| **CBY-7** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 17** | |
| **CBY-8** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 13** | |
| **CBY-9** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 22** | |
| **CBY-10** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 19** | |
| **CBY-11** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 2, Attachment A** | |
| **CBY-12** | **Cameron B. Yourowski** |  |  | **PSE Response to NWEC/RNW/NRDC DR 18** | |
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| **SIERRA CLUB** | | | | | |
| **Ezra D. Hausman, Independent Consultant, Ezra Hausman Consulting** | | | | | |
| **EDH-1T** | **Ezra D. Hausman** |  |  | **Prefiled Response Testimony of Ezra D. Hausman  (41 pages) (6/30/17)** | |
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| **EDH-3** | **Ezra D. Hausman** |  |  | **Docket UE-072300, Excerpt from Second Exhibit to Prefiled Direct Testimony of C. Richard Clarke** | |
| **EDH-4** | **Ezra D. Hausman** |  |  | **Docket UE-072300, Testimony of William H. Weinman** | |
| **EDH-5** | **Ezra D. Hausman** |  |  | **Docket UE-072300, Direct Testimony of Charles W. King** | |
| **EDH-6** | **Ezra D. Hausman** |  |  | **Docket UE-072300, Prefiled Rebuttal Testimony of Michael J. Jones** | |
| **EDH-7** | **Ezra D. Hausman** |  |  | **PSE Responses to DRs** | |
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| **EDH-9** | **Ezra D. Hausman** |  |  | **PSE Response to Public Counsel DR 286, Attachment A** | |
| **EDH-10** | **Ezra D. Hausman** |  |  | **Prefiled Cross-Answering Testimony of Ezra D. Hausman (7 pages) (8/9/17)** | |
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| **EDH-\_\_** | **Montana** |  |  | **Washington Utilities and Transportation Commission, Investigation Report: Investigation of coal-fired generating unit decommissioning and remediation costs UE-151500 (24 pages) (2/1/16)** | |
| **EDH-\_\_\_** | **Montana** |  |  | **Montana Public Service Commission, Final Order, in re Application by NorthWestern Corp. for Approval of its Interest in Colstrip Unit 4 (16 Pages) (11/13/08)** | |
| **KROGER** | | | | | |
| **Kevin C. Higgins, Principal, Energy Strategies, LLC** | | | | | |
| **KCH-1T** | **Kevin C. Higgins** |  |  | **Prefiled Response Testimony of Kevin C. Higgins  (23 pages) (6/30/17)** | |
| **KCH-2** | **Kevin C. Higgins** |  |  | **Comparison of PSE’s Proposed Rate Spread and Kroger’s Proposed Rate Spread at PSE’s Proposed Revenue Requirement** | |
| **KCH-3** | **Kevin C. Higgins** |  |  | **Kroger Proposed Rate Schedule 25 Design at PSE Requested Revenue Requirement and Spread** | |
| **KCH-4T** | **Kevin C. Higgins** |  |  | **Prefiled Cross-Answering Testimony of Kevin C. Higgins (10 pages) (8/9/17)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **FEDERAL EXECUTIVE AGENCIES** | | | | | |
| **Ali Z. Al-Jabir, Energy Advisor and Senior Consultant, Brubaker & Associates, Inc.** | | | | | |
| **AZA-1T** | **Ali Z. Al-Jabir** |  |  | **Prefiled Response Testimony of Ali Z. Al-Jabir  (32 pages) (6/30/17)** | |
| **AZA-2** | **Ali Z. Al-Jabir** |  |  | **Professional Qualifications of Ali Z. Al-Jabir** | |
| **AZA-3** | **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 Revenue Requirement** | |
| **AZA-4** | **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** | |
| **AZA-5** | **Ali Z. Al-Jabir** |  |  | **FEA’s Proposed Electric Revenue Allocation Adjusted Test Year 12 Months Ended September 2016 at Pro Forma Revenue Requirement** | |
| **AZA-6T** | **Ali Z. Al-Jabir** |  |  | **Prefiled Cross-Answering Testimony of Ali Z. Al-Jabir (10 pages) (8/9/17)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **NUCOR STEEL** | | | | | |
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| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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| **STATE OF MONTANA** | | | | | |
| **Patrick M. Risken, Assistant Attorney General for the State of Montana** | | | | | |
| **PMR-1T** | **Patrick M. Risken** |  |  | **Prefiled Cross-Answering Testimony of Patrick M. Risken (12 pages) (8/9/17)** | |
| **PMR-2** | **Patrick M. Risken** |  |  | **PSE Response to Public Counsel DR 415** | |
| **PMR-3** | **Patrick M. Risken** |  |  | **PSE Response to NWEC/RNW/NRDC DR 5** | |
| **PMR-4** | **Patrick M. Risken** |  |  | **PSE Response to NWEC/RNW/NRDC DR 6** | |
| **PMR-5** | **Patrick M. Risken** |  |  | **PSE Response to NWEC/RNW/NRDC DR 7** | |
| **PMR-6** | **Patrick M. Risken** |  |  | **Staff Response to NWEC/RNW/NRDC DRs 2-9** | |
| **PMR-7** | **Patrick M. Risken** |  |  | **June 23, 2017, Letter to Chris Cavazos from Steve Gross, International Union of Operating Engineers** | |
| **PMR-8** | **Patrick M. Risken** |  |  | **PSE Response to Sierra Club DR 3** | |
| **PMR-9** | **Patrick M. Risken** |  |  | **Governor Gregoire’s Executive Order 09-05, Washington’s Leadership on Climate Change** | |
| **PMR-10** | **Patrick M. Risken** |  |  | **Docket UE-121373, Order 03, Final Order Granting Petition Subject to Conditions** | |
| **PMR-11** | **Patrick M. Risken** |  |  | **MOU Between State of Washington and Transalta Centralia Generation LLC (April 26, 2010)** | |
| **PMR-12** | **Patrick M. Risken** |  |  | **PSE’s Response to NWEC/RNW/NRDC DR 12** | |
| **PMR-13** | **Patrick M. Risken** |  |  | **Commission Notice of Ex Parte Communication (August 1, 2017)** | |
| **CROSS-EXAMINATION EXHIBITS** | | | | | |
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