

COMMISSION STAFF'S CROSS-EXAMINATION EXHIBIT LIST
PSE 2019 GRC
Dockets UE-190529, UG-190530, UE-190274, and UG-190275

NUMBER	SPONSOR	A/R	DATE	DESCRIPTION
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BENCH EXHIBITS				
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PSE WITNESSES				
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Dr. Roger A. Morin				
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CROSS EXAMINATION EXHIBITS				
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RAM-__CX	Staff			PSE's Response to UTC Staff Data Request No. 242 (1 page)
RAM-__CX	Staff			PSE's Response to UTC Staff Data Request No. 243 (1 page)
RAM-__CX	Staff			PSE's Response to UTC Staff Data Request No. 244 (2 pages)
RAM-__CX	Staff			PSE's Response to UTC Staff Data Request No. 245 (1 page)

Witness Name, Title				
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CROSS-EXAMINATION EXHIBITS				
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Witness Name, Title				
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PUBLIC COUNSEL				
Witness Name, Title				
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THE ENERGY PROJECT				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				
AWEC				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				
NWEC				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				
KROGER				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				
FEDERAL EXECUTIVE AGENCIES				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				
NUCOR STEEL				
Witness Name, Title				
CROSS-EXAMINATION EXHIBITS				

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NUMBER	WITNESS	A/R	DATE	DESCRIPTION
Chris R. McGuire				
CRM-1T				Testimony of Chris R. McGuire
CRM-2				PSE's Annual Colstrip Report, November 30, 2018
David C. Parcell				
DCP-1				Testimony of David C. Parcell
DCP-2				Background and Experience Profile
DCP-3				Puget Sound Energy Total Cost of Capital
DCP-4				Economic Indicators
DCP-5				Electric Utility Rate Cases where ROE was Determined in 2017-2018 and ROE Awards in Prior Cases
DCP-6				Puget Sound Energy History of Credit Ratings
DCP-7				Puget Sound Energy Capital Structure Ratios
DCP-8				Proxy Companies Average Common Equity Ratios
DCP-9				Proxy Companies Basis for Selection
DCP-10				Proxy Companies DCF Cost Rates
DCP-11				Standard & Poor's 500 ROE and 20-Year Treasury Bond Returns
DCP-12				Proxy Companies CAPM Cost Rates
DCP-13				Proxy Companies ROE and M/B
DCP-14				Standard & Poor's 500 ROE and M/B
DCP-15				Risk Indicators
Jing Liu				
JL-1CTr				Testimony of Jing Liu - CONFIDENTIAL
JL-2r				Electric Model
JL-3r				Natural Gas Model
JL-4				Impact of Staff's Adjustments – Electric
JL-5				Impact of Staff's Adjustments – Natural Gas
JL-6				Temperature Normalization – Electric
JL-7				Temperature Normalization Backcast – Electric
JL-8				Temperature Normalization – Natural Gas
JL-9				Temperature Normalization Backcast – Natural Gas
JL-10C				Colstrip Major Maintenance Budget v. Actual v. In Rates - CONFIDENTIAL
JL-11				Colstrip Major Maintenance 2017 2018
JL-12C				PSE Support for Colstrip Major Maintenance

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				2020 - CONFIDENTIAL
JL-13C				PSE Response to WUTC Data Request No.75 (Ronald Roberts' Response) - CONFIDENTIAL
JL-14C				Colstrip Common Cost Budget CONFIDENTIAL
JL-15C				Colstrip O&M Budget v. Actual CONFIDENTIAL
JL-16				Staff's Revised Centralia PPA Equity Adder
JL-17C				Staff Recommended Variable Power Cost CONFIDENTIAL
JL-18C				PSE's Explanation on the Difference Between a Single Run and 80 Runs - CONFIDENTIAL
JL-19r				Staff's Attrition Analysis
JL-20r				Attrition Base and Growth Factor Comparison
JL-21				PSE Response to AWEC Data Request 20
JL-22				PSE Response to AWEC DR 20 Revised
JL-23C				PSE's Capital Expenditure Plan CONFIDENTIAL
JL-24T				Cross-Answering Testimony of Jing Liu
JL-25				PSE HELP Spending Details for October 2018 – September 2019 Program Year (PSE Second Revised Response to UTC Staff Data Request No. 230)
JL-26				PSE HELP Spending Details by Community Action Agency for the Last Three Program Years (PSE Revised Response to UTC Staff Data Request No. 231)
JL-27				PSE's Determination of HELP Administrative Fees (PSE Response to UTC Staff Data Request No. 232)
JL-28				PSE's Verification of HELP Administration Fees (PSE Response to UTC Staff Data Request No. 233)
JL-29				HELP Service Contract between PSE and Community Action Agencies (PSE Response to UTC Staff Data Request No. 234)
Aimee N. Higby				
ANH-1T				Testimony of Aimee N. Higby
ANH-2				Digital Innovation: Creating the Utility of the Future
ANH-3				The Future of Regulation: Principles for Regulating Emerging Technologies

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ANH-4				Customer Centricity: Lynchpin of Utility Strategy
ANH-5				PSE Response to UTC Staff Data Request No. 205 (Redacted)
Kathi B. Scanlan				
KBS-1TC				Testimony of Kathi B. Scanlan - CONFIDENTIAL
KBS-2				Electric Green Direct Adjustment Staff-12.03
KBS-3				Gas Green Direct Adjustment Staff-12.03
KBS-4				PSE Responses to Staff Data Request Nos. 071 and 123
KBS-5C				PSE Response to Staff Data Request Nos. 094, 095C, and 096C - CONFIDENTIAL
KBS-6				PSE Response to Staff Data Request Nos. 182 and 183
KBS-7				PSE Responses to Staff Data Request Nos. 097 and 106
Cristina Steward				
CS-1T				Testimony of Cristina Steward
CS-2				IRS Revenue Procedure 2017-47, Safe Harbor for Inadvertent Normalization Violations
CS-3				Shuffleton Property Sale Adjustment
David C. Gomez				
DCG-1TC				Testimony of David C. Gomez - CONFIDENTIAL
DCG-2				PSE's SEC Form 10-K filing for December 31, 2018
DCG-3				Colstrip Units 3 & 4 Particulate Matter (PM) Levels
DCG-4				Idaho PUD Case No. AVU-E-17-01, Direct Testimony of Dr. Extra D. Hausman, Sierra Club (Redacted Version)
DCG-5				Sologic RCA UE-190324 PSE Resp. to Staff Inf. DR Nos. 3 and 10
DCG-6				State of Montana, State Implementation Plan and Regional Haze Federal Implementation Plan (FIP)
DCG-7				State of Montana Regional Haze 4-Year Report MDEQ August 2071
DCG-8				Section 17 Colstrip Unit 3 and 4 Ownership and Operation Agreement
DCG-9				Colstrip Units 3 and 4 NOx Emissions, US environmental Protection Agency Clean Air

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				Markets Division (CAMD)
DCG-10				Colstrip Units 3 & 4 Amended Restated Coal Supply Agreement (ARCSA) Section 7.1
DCG-11				Testimony Exhibit, Mark Taylor, Talen SB 252
DCG-12				Montana Governor Bullock Veto SB 252
DCG-13				MDEQ Major Facility Siting Act Certificate Amendment May 10, 2019
DCG-14				MDEQ Montana Air Quality Permit #0513-11 March 13, 2019
DCG-15				Record of Decision, Rosebud Mine Area F Federal Mining Plan, OSMRE June 2019
DCG-16				PSE 2017 IRP Acknowledgement Letter July 8, 2019
DCG-17				PSE Ron Roberts Response to Staff DR No. 75
DCG-18				PSE Response to Staff Data Request No. 57
DCG-19				PSE Response to Staff DR No. 173, Colstrip Units 3 & 4 Coal Contract
DCG-20				PSE Response to Staff DR No. 174, Colstrip Units 3 & 4 Coal Contract
DCG-21				PSE Response to Staff DR No. 159 Fixed-Pipeline Costs (redacted)
DCG-22				PSE's 2017 IRP, Chapter 7 Gas Analysis
DCG-23				Avista GRC, Docket No. UE-190334; Response Testimony of Avi Allison
DCG-24				UE-960195 Fourteenth Supplemental Order, Appendix A
DCG-25				PSE Response to Staff DR No. 70
DCG-26C				2016 Vaisala Operational Reforecast; Hopkins Ridge, Wild Horse, Wild Horse Expansion and Lower Snake River - CONFIDENTIAL
DCG-27C				Generation Forecasts of PSE's Wind Resources - CONFIDENTIAL
DCG-28				U.S. DOE, Office of Energy Efficiency & Renewable Energy, 2018 Wind Technologies Market Report
DCG-29				PSE Response to Staff DR No. 171; Tacoma LNG
Jason Ball				
JLB-1T				Testimony of Jason L. Ball
JLB-2				Excerpt from Ball Testimony in 2017 PSE GRC
JLB-3				NARUC Resolution on Modeling Energy Storage

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				and Other Flexible Resources
JLB-4				Company's Responses to Various Data Requests
JLB-5				Excerpt from 11th Supplemental Order in PSE 1992 GRC
JLB-6				PSE 2017 Decoupling Evaluation
JLB-7				Electric Bill Impact Analysis
JLB-8				Natural Gas Bill Impact Analysis
JLB-9				Time-varying and Dynamic Rate Design, RAP
JLB-10				Experiences from Consumer Behavior Studies on Engaging Customers, DOE
JLB-11				Rate Design for the Distribution Edge, RMI
JLB-12				Innovation in the Mobile Industry
JLB-13				Digital Innovation: Creating the Utility of the Future
JLB-14				The Internet of Things: Mapping the Value Beyond the Hype
JLB-15				The Internet of Things: An Overview
JLB-16				Flexibility for 21st Century Power Sys Volt-VAr Optimization Benefits tems
JLB-17				Volt-VAr Optimization Benefits
JLB-18				International Evidence on Dynamic Pricing
JLB-19				The Status and Promise of Advanced M&V
JLB-20				Experiences of Vulnerable Customers, Lawrence Berkeley National Laboratory
JLB-21				Nexant Report on TOU Pricing Opt-In Pilot Plan
JLB-22				A Primer on Time-Variant Electricity Pricing, EDF
JLB-23				EVGO Fleet and Tariff Analysis, RMI
JLB-24				Oregon Commission Acknowledgement of PGE Pilot
JLB-25				Memo to Mayor's Office from Seattle City Light
JLB-26				Advancing the Practice of Rate Design
JLB-27				PNNL Olympic Peninsula Project
JLB-28T				Cross-Answering Testimony of Jason L. Ball
JLB-29				Staff Memo in Docket UG-161268
JLB-30				Staff Memo in Docket UG-180920
JLB-31				Various Data Requests
David J. Panco				
DJP-1T				Cross-Answering Testimony of David J. Panco

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James T. Woodward				
JTW-1T				Cross-Answering Testimony of James T. Woodward
JTW-2				NWEC Response to Staff Data Request No. 3