Docket Nos. UE-190529 and UG-190530 (Consolidated) - Vol. IV

WUTC v. Puget Sound Energy

February 6, 2020



1325 Fourth Avenue • Suite 1840 • Seattle, Washington 98101

206.287.9066

www.buellrealtime.com

email: info@buellrealtime.com



| BEFORE THE WASHINGTON |
|---|
| UTILITIES AND TRANSPORTATION COMMISSION |
| |
| WASHINGTON UTILITIES AND) DOCKETS UE-190529 and TRANSPORTATION COMMISSION,) UG-190530 (Consolidated) |
| Complainant,) |
| vs. ´) |
| PUGET SOUND ENERGY,) |
| Respondent.) |
| |
| EVIDENTIARY HEARING, VOLUME IV |
| Pages 172 - 453 |
| ADMINISTRATIVE LAW JUDGE RAYNE PEARSON |
| |
| February 6, 2020 |
| 1:07 p.m. |
| 1.07 μ.π. |
| Washington Utilities and Transportation Commission 621 Woodland Square Loop Southeast |
| Lacey, Washington 98503 |
| |
| |
| |
| |
| |
| REPORTED BY: CRYSTAL R. McAULIFFE, RPR, CCR 2121 |
| |

| 1 | APPEARANCES |
|--------|--|
| 2 | ADMINISTRATIVE LAW JUDGE: |
| 3 | RAYNE PEARSON Utilities and Transportation Commission |
| 4 5 | 621 Woodland Square Loop SE Lacey, Washington 98503 (360) 664-1160 |
| 6 | rayne.pearson@utc.wa.gov |
| 7 | COMMISSIONERS: |
| 8 | DAVID DANNER, Chair ANN RENDAHL, Commissioner JAY BALASBAS, Commissioner |
| 9 | FOR COMMISSION STAFF: |
| 10 | JENNIFER CAMERON-RULKOWSKI |
| 11 | JEFF ROBERSON Office of the Attorney General |
| 12 | PO Box 40128 Olympia, Washington 98504 |
| 13 | (360) 664-1186 jennifer.cameron-rulkowski@utc.wa.gov |
| 14 | jeff.roberson@utc.wa.gov |
| 15 | FOR PUBLIC COUNSEL: |
| 16 | LISA GAFKEN ANN PAISNER |
| 17 | Office of the Attorney General Public Counsel Unit |
| 18 | 800 - 5th Avenue, Suite 2000 Seattle, Washington 98104 |
| 19 | (206) 464-6596 lisaw4@atg.wa.gov |
| 20 | ann.paisner@atg.wa.gov |
| 21 | FOR PUGET SOUND ENERGY: |
| 22 | SHEREE STROM CARSON Perkins Coie |
| 23 | 10885 NE Fourth Street, Suite 700 Bellevue, Washington 98004 |
| 24 | (425) 635-2400 |
| 25 | scarson@perkinscoie.com |
| | |

| 1 | APPEARANCES (Continued) |
|------------|---|
| 2 | FOR THE ENGERY PROJECT: |
| 3 | SIMON FFITCH Attorney at Law |
| 4 | 321 High School Road NE Ste-D3, Box 383 |
| 5 | Bainbridge Island, Washington 98110 (206) 669-8197 |
| 6 | simon@ffitchlaw.com |
| 7 | FOR AWEC: BRENT COLEMAN TYLER PEPPLE |
| 9 | Davison Van Cleve 1750 SW Harbor Way, Suite 450 |
| 10 | Portland, Oregon 97201 (503) 241-7242 |
| 11 | blc@dvclaw.com tcp@dvclaw.com |
| 12 | FOR KROGER: |
| 13 | KURT BOEHM Boehm, Kurtz & Lowry |
| 14 15 | 36 E. Seventh Street, Suite 1510 Cincinnati, Ohio 45202 |
| 16 | (513) 421-2255 kboehm@bkllawfirm.com |
| 17 | FOR THE FEA: (Via phone) |
| 18 | ŘITA LIOTTA Department of the Navy |
| 19 | One Avenue of the Palms, Suite 161 San Francisco, California 94130 (415) 743 4718 |
| 20 | (415) 743-4718 rita.liotta@navy.mil |
| 21 | FOR NWEC: MARIE BARLOW |
| 22 | Sanger Law, PC 1041 SE 58th Pl |
| 23 | Portland, OR 97215-2756 United States |
| 24 25 | (503) 420-7734 marie@sanger-law.com |
| ∠ ⊃ | |
| | |

| 1 | INDEX |
|--------|---|
| 2 | EXAMINATION PAGE |
| 3 | Attrition Panel Cross-Examination 235 |
| 4 | Dan Doyle - Questions by Commissioner Balasbas 238 |
| 5 6 | Cost of Service Rate Spread and Rate Design 252 Panel Cross-Examination |
| 7 | John Taylor - Cross-Examination by Ms. Gafken 252 |
| 8 | Job Piliaris - Cross-Examination by Ms. Gafken 259 |
| 9 | Jon Piliaris - Cross-Examination by Mr. Roberson 267 |
| 10 | Birud Jhaveri - Questions by Commissioner 270 Balasbas |
| 11 | Jon Piliaris - Questions by Commissioner Rendahl 274 |
| 12 | Jon Piliaris - Questions by Chairman Danner 277 |
| 13 | IT Investment Panel 280 |
| 14 | Cathy Koch - Cross-Examination by Ms. Paisner 282 |
| 15 | Susan Free - Cross-Examination by Ms. Paisner 292 |
| 16 | Cathy Koch - Cross-Examination by Ms. Paisner 294 |
| 17 | Cathy Koch - Redirect Examination by Mr. Steele 302 |
| 18 | Joshua Jacobs - Cross-Examination by Ms. Gafken 303 |
| 19 | Susan Free - Cross-Examination by Mr. Roberson 305 |
| 20 | Susan Free - Cross-Examination by Mr. Pepple 312 |
| 21 | Susan Free - Questions by Commissioner Rendahl 321 |
| 22 | Margaret Hopkins - Questions by Commissioner 321 |
| 23 | Balasbas Sugar Free Questions by Commissioner Polesbas 226 |
| 24 | Susan Free - Questions by Commissioner Balasbas 326 |
| 25 | |
| | |

| 1 | INDEX (Continued) | |
|----------|---|-------|
| 2 | EXAMINATION PAGE | |
| 3 | Joshua Jacobs - Questions by Ms. Rendahl | 327 |
| 4 | Margaret Hopkins - Questions by Chairman Danner | 328 |
| 5 | Cathy Koch - Questions by Commissioner Rendahl | 336 |
| 6 | Cathy Koch - Questions by Commissioner Balasbas | s 339 |
| 7 | Joshua Jacobs - Questions by Chairman Danner | 339 |
| 8 | Cathy Koch - Questions by Chairman Danner | 342 |
| 9 | Cathy Koch - Questions by Commissioner Rendahl | 346 |
| 10 | Susan Free - Questions by Commissioner Rendahl | 348 |
| 11 | Cathy Koch - Questions by Chairman Danner | 351 |
| 12 | Joshua Jacobs - Questions by Chairman Danner | 354 |
| 13 14 | Joshua Jacobs - Questions by Commissioner Rendahl | 356 |
| 15 | Andrew Wappler 358 | |
| 16 | Daniel Doyle Cross-Examination By Ms. Gafken | 361 |
| 17 | Daniel Doyle - Cross-Examination by Ms. 36 Cameron-Rulkowski | 67 |
| 18 | Daniel Doyle - Redirect Examination by Mr. Kuzma | 376 |
| 19 | Dan Doyle - Question by Commissioner Balasbas | 377 |
| 20 | Matt Marcelia - Cross-Examination by Mr. Pepple | 378 |
| 21 | Matt Marcelia - Question by Commissioner 3 Balasbas | 887 |
| 22 | | 91 |
| 23 | Cameron-Rulkowski | - • |
| 24 | | |
| 25 | | |
| | | |

| 1 | INDEX (Continued) |
|----------------|--|
| 2 | EXAMINATION PAGE |
| 3 | Susan Free - Questions by Commissioner Balasbas 392 |
| 4 | Thomas Hunt - Cross-Examination by Ms. Gafken 393 |
| 5 | Thomas Hunt - Redirect Examination by Ms. Carson 399 |
| 6 | Thomas Hunt - Questions by Chairman Danner 401 |
| 7 | Duane Henderson - Questions by Commissioner 403 Rendahl |
| 9 | Susan Free - Questions by Commissioner Rendahl 404 |
| 10 11 | Duane Henderson - Questions by Commissioner 405 Balasbas Duane Henderson - Questions by Chairman Danner 407 |
| 12 | Paul Wetherby - Cross-Examination by Ms. 407 Cameron-Rulkowski Paul Wetherbee - Questions by Chairman Danner 413 |
| 14 | William Einstein - Questions by Commissioner 414 Rendahl Susan Free - Questions by Commissioner Rendahl 415 |
| 15 16 17 | William Einstein - Questions by Commissioner 417 Rendahl William Einstein - Questions by Chairman Danner 418 |
| 18 | Susan Free - Questions by Chairman Danner 419 |
| 19 | Jon Piliaris - Questions by Chairman Danner 420 |
| 20 | Jon Piliaris - Questions by Commissioner 422 Balasbas |
| 21 | Katie Scanlan - Questions by Chairman Danner 424 |
| 22 | Katie Scanlan - Question by Commissioner Rendahl 425 |
| 23 24 | Ronald Roberts - Cross-Examination by 426 Ms. Cameron-Rulkowski |
| 25 | |
| | |

| 1 | INDEX (Continued) | |
|------------------|---|-----|
| 2 | EXAMINATION PAGE | GE |
| 3 | Chris McGuire - Questions by Commissionel Balasbas | 431 |
| 4 5 6 7 | Chris McGuire - Cross-Examination by Mr. K Jason Ball - Questions by Commissioner Re Shawn Collins - Introduction by Mr. Ffitch | |
| 8 9 10 | Shawn Collins - Questions by Chairman Dar Brian Collins - Introduction by Mr. Coleman Brian Collins - Cross-Examination by Ms. Ga | 444 |
| 11 | PROCEEDINGS PA | AGE |
| 12 | Proceedings - On Record 2 | 32 |
| 13 | Exhibit Stipulation 234 | |
| 14 | Bench Request by Commissioner Balasbas | 339 |
| 15 | Bench request by Commissioner Rendahl | 358 |
| 16 | Bench request by Commissioner Balasbas | 388 |
| 17 | Bench request by Commissioner Rendahl | 405 |
| 18 | Bench request by Chairman Danner | 414 |
| 19 | Bench request by Commissioner Rendahl | 416 |
| 20 | Bench request by Commissioner Rendahl | 417 |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| | | |

| 1 | EXHIBIT INDEX |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | PSE WITNESSES |
| 4 | David E. Mills, Senior Vice President of Policy and Energy Supply |
| 5 | DEM-1T David E. Mills 6/20/19 |
| 6 | Direct Testimony (28 pages) |
| 7 | DEM-2 6/20/19 Professional Qualifications |
| 8 | DEM-3T David E. Mills, 1/15/20, Rebuttal Testimony (10 pages) |
| 10 | Daniel A. Doyle, Chief Financial Officer |
| 11 | DAD-1Tr Daniel A. Doyle, 6/20/19, revised 8/22/19 Direct Testimony (52 pages) |
| 12 | DAD-2 6/20/19 Professional Qualifications |
| 13 | DAD-3 6/20/19 S&P's Funds from Operations to Debt Metric for PSE |
| 14 15 | DAD-4 6/20/19 Returns on Equity, Equity Ratios and Weighted-Average ROEs for Elec. And Natural Gas Utils. For 1/18/18-12/31/18 |
| 16 17 18 | DAD-5 6/20/19Returns on Equity, Equity Ratios and Weighted-Average ROEs for Proxy Group for 1/18/18-12/31/18 |
| 19 | DAD-6 Daniel A. Doyle 6/20/19Test Year and Rate Year Credit Metric Comparisons |
| 20 | DAD-7TR Daniel A. Doyle 1/15/20Rebuttal Testimony (48 pages) |
| 21 | DAD-8R Daniel A. Doyle 1/15/20 Example |
| 22 23 | Calculation of PSÉ's Proposed Changes to PSE's Earnings Sharing Mechanism if the Commission Were to Adopt PSE's Proposed |
| 24 | Attrition Adjustments |
| 25 | |
| | |

| 1 | EXHIBIT | INDEX (Continued) | | |
|-------------|------------------------|---|--|--|
| 2 | NO. | DESCRIPTION | PAGE | |
| 3 4 5 | | | 5/20Impact of Commission sel's Weighted-Average sals | |
| 6 | Dr. Roge Internatio | r A. Morin, Principal, U onal | Utility Research | |
| 7 | | R Roger A. Morin6/2 estimony (60 pages) | 20/19, revised 8/22/19Direct | |
| 8 | RAM-2 | 6/20/19Professional | l Qualifications | |
| 10 11 | Co | 6/20/19Investment-0 ombination Gas and E overed in Value Line's roup | _ | |
| 12 | RAM-4 | 6/20/19 Proxy Group | p for PSE | |
| 13 | RAM-5 DO | 6/20/19 Combination CF Analysis Value Lin | | |
| 14 | | 6/20/19, revised 8/2 as Utils. DCF Analysis precasts | 22/19 Combination Elec. & S Analysts' Growth | |
| 16 17 | RAM-7 Be | 6/20/19 Combination eta Estimates | n Elec. & Gas Utilities | |
| 18 | RAM-8 | 6/20/19 DCF Analys | sis, S&P 500 Stocks | |
| 19 | RAM-9 | 6/20/19 Empirical C | APM (17 pages) | |
| 20 | RAM-10 Pr | 6/20/19 2018 Utility emium | Industry Historical Risk | |
| 21 22 | RAM-11 | 6/20/19 Allowed Ris | sk Premium Analysis | |
| 23 | RAM-127 (9 | Γ Roger A. Morin 1/1 8 pages) | 15/20 Rebuttal Testimony | |
| 24 | | | | |
| 25 | | | | |
| | | | | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | RAM-13 Roger A. Morin 1/15/20 Expected and |
| 4 | Authorized Returns on Equity for Dr. Woolridge's Proxy Group of Thirty Electric Utilities |
| 5 | RAM-14 Roger A. Morin1/15/20Updated Combination |
| 6 | Electric & Gas Utilities DCF Analysis Value Line |
| 7 | |
| 8 | RAM-15 Roger A. Morin1/15/20Updated Combination Electric & Gas Utilities DCF Analysis |
| 9 | Analysts' Growth Forecasts |
| 10 | RAM-16 Roger A. Morin1/15/20Updated Combination Electric & Gas Utilities Beta Estimates |
| 11 | RAM-17 Roger A. Morin1/15/20Updated DCF Analysis S&P |
| 12 | 500 Stocks |
| 13 | CROSS-EXAMINATION EXHIBITS |
| 14 15 | RAM-18X Staff PSE's Response to UTC Staff Data Request No. 242 (1 page) |
| 16 | RAM-19X Staff PSE's Response to UTC Staff Data Request No. 243 (1 page) |
| 17 18 | RAM-20X Staff PSE's Response to UTC Staff Data Request No. 244 (2 pages) |
| 19 | RAM-21X Staff PSE's Response to UTC Staff Data Request No. 245 (1 page) |
| 20 | Matthew D. McArthur, Corporate Treasurer |
| 21 | MDM-1T Matthew D. McArthur 6/20/19 Direct Testimony (24 pages) |
| 22 | MDM-2 6/20/19 Professional Qualifications |
| 23 | MDM-3 6/20/19 Test Year Capital Structure and Costs |
| 24 | of Capital (2018 Commission Basis Reports) |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | MDM-4 6/20/19 Test Year Capital Structure and Costs |
| 4 | of Capital (As Adjusted by PSE) |
| 5 | MDM-5 6/20/19 Projected Rate Year Capital Structure and Costs of Capital |
| 6 7 | MDM-6 6/20/19 PSE's Outstanding Issues of Callable Long-Term Debt as of December 31, 2018 |
| 8 | MDM-7T Matthew D. McArthur 1/15/20 Rebuttal Testimony (10 pages) |
| 9 | MDM-8 Matthew D. McArthur 1/15/20 PSE's Proposed |
| 10 | Cost of Capital and Rate of Return (with a Revised Return on Equity of 9.5 Percent) |
| 11 | MDM-9 Matthew D. McArthur 1/15/20 PSE's Proposed |
| 12 | Cost of Capital and Rate of Return (with a Revised Return on Equity of 9.7 Percent) |
| 13 14 | Margaret F. Hopkins, Vice President and Chief Information Officer |
| 15 | MFH-1T Margaret F. Hopkins 6/20/19 Direct Testimony (43 pages) |
| 16 | MFH-2 6/20/19 Professional Qualifications |
| 17 18 | MFH-3 6/20/19 Technology Placed into Service After October 1, 2016, and Before December 31, 2018 |
| 19 | MFH-4 6/20/19 Data Center and Disaster Recovery Program Corporate Spending Authorization |
| 20 | Documentation |
| 21 | MFH-5 6/20/19 Energy Management System Upgrade Corporate Spending Authorization |
| 22 | MFH-6 6/20/19 HR-TOPS Corporate Spending Authorization |
| 23 24 | MFH-7T Margaret F. Hopkins 1/15/20 Rebuttal Testimony (16 pages) |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | MFH-8 Margaret F. Hopkins, 1/15/20 Forbes: Next-Generation Data Centers |
| 4 | CROSS-EXAMINATION EXHIBITS |
| 5 | MFH-9X AWEC, PSE Response to AWEC Data Request No. 001 and Attachment A thereto (5 pages) (10/8/19) |
| 7 8 | MFH-10X AWEC, PSE Response to AWEC Data Request No. 003 and Attachments A, B and C thereto (29 pages) (10/8/19) |
| 9 | MFH-11X AWEC PSE Response to AWEC Data Request No. 004 (1 page) (10/8/19) |
| 11 | Joshua J. Jacobs, Director, Business Integration |
| 12 13 | JJJ-1T Joshua J. Jacobs 6/20/19 Direct Testimony (51 pages) |
| 14 | JJJ-2 6/20/19 Professional Qualifications |
| 15 | JJJ-3 6/20/19 2016 GTZ Board Presentation |
| 16 | JJJ-4 6/20/19 2016 GTZ Project Roadmap |
| 17 | JJJ-5 6/20/19 2016 JD Power Residential Electric & Natural Gas Scores |
| 18 | JJJ-6 6/20/19 GTZ Project List |
| 19 | JJJ-7 6/20/19 Web Corporate Spending Authorization |
| 20 21 | JJJ-8 6/20/19 Communication Gateway Corporate Spending Authorization |
| 22 | JJJ-9 6/20/19 Microservices Corporate Spending Authorization |
| 23 24 | JJJ-10 6/20/19 IWM Corporate Spending Authorization |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JJJ-11T Joshua J. Jacobs 1/15/20 Rebuttal Testimony (32 pages) |
| 5 | JJJ-12 Joshua J. Jacobs 1/15/20 J.D. Power 2019 Utilities Industry Outlook |
| 6 | JJJ-13 Joshua J. Jacobs 1/15/20 Consumer Education Cards |
| 7 | JJJ-14 Joshua J. Jacobs 1/15/20 GTZ Pro Forma Period Project List Update |
| 9 | CROSS-EXAMINATION EXHIBITS |
| 10 | JJJ-15X The Engery Project 1/31/20 PSE's |
| 11 | Response to The Energy Project's Data Request No. 32 |
| 12 13 | JJJ-16X The Engery Project 1/31/20 PSE's Response to The Energy Project's Data Request No. 34 |
| 14 15 | JJJ-17X The Engery Project 1/31/20 PSE's Response to Public Counsel's Data Request No. 129 |
| 16 17 | JJJ-18X The Engery Project 1/31/20 PSE's Response to Public Counsel's Data Request No. 122 |
| 18 19 | JJJ-19X The Engery Project 1/31/20 PSE's Response to Public Counsel's Data Request No. 185 (Without Attachment A) |
| 20 21 | JJJ-20X The Engery Project 1/31/20 PSE's Response to Public Counsel's Data Request No. 186 |
| 22 | Andrew Wappler, Vice President, Customer Operations and Communications |
| 23 24 | AW-1T Andrew Wappler 6/20/19 Direct Testimony (23 pages) |
| 25 | AW-2 6/20/19 Professional Qualifications |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | AW-3 6/20/19 JD Power 2018 Electric Residential Customer Satisfaction Survey |
| 4 5 | AW-4 6/20/19 JD Power 2017-2018 Scorecards |
| 6 | AW-5T Andrew Wappler 1/15/20 Rebuttal Testimony (21 pages) |
| 7 | CROSS-EXAMINATION EXHIBITS |
| 8 | AW-6X The Engery Project 1/31/20 PSE's Response to The Energy Project's Data Request No. 2 |
| 10 | AW-7X The Engery Project, 1/31/20, PSE's |
| 11 | Response to The Energy Project's Data Request No. 3 |
| 12 13 | AW-8X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data Request No. 4 |
| 14 | AW-9X The Engery Project, 1/31/20 PSE's |
| 15 | Response to The Energy Project's Data Request No. 5 |
| 16 17 | AW-10X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data Request No. 8 |
| 18 | AW-11X The Engery Project, 1/31/20 PSE's |
| 19 | Response to The Energy Project's Data Request No. 9 |
| 20 | AW-12X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data |
| 21 | Request No. 10 |
| 22 23 | AW-13X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data Request No. 12 |
| 24 | AW-14X The Engery Project, 1/31/20 PSE's |
| 25 | Response to The Energy Project's Data Request No. 13 |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | |
| | AW-15X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data |
| 4 | Request No. 14 |
| 5 | AW-16X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data |
| 6 | Request No. 15 |
| 7 | AW-17X The Engery Project, 1/31/20 PSE's |
| 8 | Response to The Energy Project's Data Request No. 16 |
| 9 | AW-18X The Engery Project, 1/31/20 PSE's |
| 10 | Response to The Energy Project's Data Request No. 17 |
| 11 | AW-19X The Engery Project, 1/31/20 PSE's |
| 12 | Response to The Energy Project's Data Request No. 18 |
| 13 | AW-20X The Engery Project, 1/31/20 PSE's |
| 14 | Response to The Energy Project's Data Request No. 27 |
| 15 | AW-21X The Engery Project, 1/31/20 PSE's |
| 16 | Response to The Energy Project's Data Request No. 28 |
| 17 | AW-22X The Engery Project, 1/31/20 PSE's |
| 18 | Response to The Energy Project's Data Request No. 29 |
| 19 | AW-23X The Engery Project, 1/31/20 PSE's |
| 20 | Response to The Energy Project's Data Request No. 30 |
| 21 | AW-24X The Engery Project, 1/31/20 PSE's |
| 22 | Response to The Energy Project's Data Request No. 31 |
| 23 | AW-25X The Engery Project, 1/31/20 PSE's |
| 24 | Response to The Energy Project's Data Request No. 33 |
| 25 | (Included Attachment A) |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | AW-26X The Engery Project, 1/31/20 PSE's Response to The Energy Project's Data Request No. 113 |
| 5 | AW-27X The Engery Project, 1/31/20 PSE's Counsel's Data Request No. 119 (Included Attachment A) |
| 7 | Booga K. Gilbertson, Senior Vice President, Operations |
| 8 | BKG-1T Booga K. Gilbertson, 6/20/19, Direct Testimony (36 pages) |
| 10 | BKG-2 6/20/19 Professional Qualifications |
| 11 | Catherine A. Koch, Director, Planning |
| 12 | CAK-1Tr Catherine A. Koch 6/20/19, revised 8/22/19 Direct Testimony (66 pages) |
| 13 | CAK-2 6/20/19 Professional Qualifications |
| 14 15 | CAK-3 6/20/19 Major Projects Greater than \$10 Million Appdx A, Appdx B, Appdx C, Appdx D Appdx E, Appdx F |
| 16 17 18 | CAK-04 6/20/19 ***CONFIDENTIAL*** Advanced Metering Infrastructure (Appendices C and D are Confidential) Appdx A, Appdx B, Appdx C (C), Appdx D, Appdx E, Appdx F, Appdx G (C) |
| 19 20 | CAK-5 Catherine A. Koch 6/20/19 Storm Deferral |
| 21 | CAK-6Tr Catherine A. Koch 1/15/20 Rebuttal Testimony (35 pages) |
| 23 | CAK-7 Catherine A. Koch 1/15/20 Public Counsel's Response To PSE Data Request No. 003 |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | CROSS-EXAMINATION EXHIBITS |
| 4 | CAK-8 Public Counsel, PSE Response to Public Counsel Data Request No. 256, |
| 5 | Attachments A, B, C, and E |
| 6 7 | CAK-9 Public Counsel , PSE Response to Public Counsel Data Request No. 257 |
| 8 | CAK-10 Public Counsel, PSE Response to Public Counsel Data Request No. 261 |
| 9 10 | CAK-11CX Public Counsel, ***CONFIDENTIAL*** PSE Response to Public Counsel Data Request No. 265, Attachment A |
| 11 | CAK-12X Public Counsel, PSE Response to Public |
| 12 | Counsel Data Request No. 267 |
| 13 | CAK-13X Public Counsel, PSE Response to Public Counsel Data Request No. 269 |
| 14 15 | CAK-14X Public Counsel, PSE Response to Public Counsel Data Request No. 270 |
| 16 | CAK-15X Public Counsel, PSE Response to Public Counsel Data Request No. 274 |
| 17 | Duane A. Henderson, Manager, Gas System Integrity |
| 18 | DAH-1T Duane A. Henderson,6/20/19 Direct Testimony (12 pages) |
| 19 | DAH-2 6/20/19 Professional Qualifications |
| 20 21 | DAH-3 6/20/19 Excerpts from PSE 2012 10-Year Plan HP Project List |
| 22 | DAH-4T Duane A. Henderson, 1/15/20 |
| 23 | Rebuttal Testimony (7 pages) |
| 24 | |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | CROSS-EXAMINATION EXHIBITS |
| 4 | DAH-5X AWEC, PSE Response to AWEC Data Request No. 54 (1 page) |
| 5 | (1/28/20) |
| 6 7 | Doug S. Loreen, Director, Safety and Corporate Shared Services |
| 8 | DSL-1T Douglas S. Loreen, 6/20/19 Direct Testimony (32 pages) |
| 9 | DSL-2 6/20/19, Professional Qualifications |
| 10 | DSL-3 6/20/19, CBRE Workplace Strategy Findings Report |
| 11 | DSL-4C 6/20/19, ***CONFIDENTIAL*** |
| 12 | CBRE Market Analysis April 2018 |
| 13 14 | DSL-5 6/20/19 Capital Spending Authorization for Bellingham Service Center |
| 15 | DSL-6 6/20/19, South King Complex Tenant Improvement - Phase I |
| 16 17 | DSL-7 6/20/19, Snoqualmie Facility Purchase Authorization |
| 18 | DLS-8T 9/17/19, Supplemental Testimony (7 pages) |
| 19 20 | DLS-9 9/17/19, Agreement of Purchase and Sale between PSE and Southport West LLC |
| 21 | Paul K. Wetherbee, Director, Energy Supply Merchant |
| 22 | PKW-1CT Paul K. Wetherbee 6/20/19 ***CONFIDENTIAL*** |
| 23 | Direct Testimony (93 pages) |
| 24 | PKW-2 6/20/19, Professional Qualifications |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | PKW-3C 6/20/19, ***CONFIDENTIAL*** |
| 4 | Summary of PSE's Proposed Power Costs in Comparison with Power Costs in the 2017 GRC Settlement |
| 5 | PKW-4 6/20/19, EMC Slides for 150 MW Midway |
| 6 | Transmission Renewal |
| 7 | PKW-5 6/20/19, EMC Slides for 474 MW Rocky Reach/Vantage Transmission Renewal |
| 9 | PKW-6 6/20/19, EMC Slides for 150 MW New Mid-C Transmission |
| 10 | PKW-7 6/20/19 EMC Slides for 663 MW Colstrip Transmission Renewal |
| 11 | PKW-8 6/20/19, EMC Slides for 300 MW Transmission Renewal for PG&E Exchange Agreement |
| 13 14 | PKW-9 6/20/19, EMC Slides for Hopkins Ridge 2024 Transmission |
| 15 16 | PKW-10C 6/20/19, ***CONFIDENTIAL*** Description of the Analysis Used to Estimate the Value of the |
| 17 | Colville Slice of the Wells Hydroelectric Project |
| 18 | PKW-11 6/20/19, EMC Slides for Extension |
| 19 | Of 33,000 dth/day Capacity on Westcoast Pipeline |
| 20 | PKW-12C 6/20/19, ***CONFIDENTIAL*** EMC Slides for Extension of |
| 21 | 52,000 dth/day Capacity on Westcoast Pipeline |
| 22 | PKW-13C 6/20/19 ***CONFIDENTIAL*** |
| 23 | Summary of Rate Year Power Costs by Resource |
| 24 | |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | PKW-14C 6/20/19 ***CONFIDENTIAL*** Monthly Detail of Costs and Energy Produced by AURORA Model |
| 5 | PKW-15C 6/20/19 ***CONFIDENTIAL*** Summary of the Rate Year Costs Not in AURORA Model |
| 7 | PKW-16C 6/20/19 ***CONFIDENTIAL** Rate Year Resources Input Summary |
| 9 | PKW-17C 6/20/19, ***CONFIDENTIAL*** Summary of the 2018 Review of Variable O&M Costs |
| 10 11 12 | PKW-18C 6/20/19, ***CONFIDENTIAL*** Variable Operations and Maintenance Dispatch Assumptions for Gas-Fired Generators |
| 13 14 | PKW-19C 6/20/19, ***CONFIDENTIAL*** Monthly Market Gas and Power Prices |
| 15 16 | PKW-20C 6/20/19, ***CONFIDENTIAL*** Presentation of the 2017 Availability Data and the Adjusted Capacity Used to Calculate the Cost of Westcoast Capacity |
| 17 18 19 | PKW-21C 6/20/19, ***CONFIDENTIAL*** Comparison of Actual Wind Generation with Preconstruction, 2010 DNV, and 2016 Wind Forecast for Each Wind Resource |
| 20 | PKW-22C 6/20/19, ***CONFIDENTIAL*** Development of Skookumchuck PPA Hour-Ahead Costs |
| 22 23 24 | PKW-23C 6/20/19, ***CONFIDENTIAL*** Calculation of Rate Year Day-Ahead Wind Integration Costs |
| 25 | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | PKW-24C 6/20/19, ***CONFIDENTIAL*** Colstrip Fixed Fuel Costs |
| 4 5 | PKW-25C 6/20/19, ***CONFIDENTIAL*** Contract Costs of Mid-C Hydro Resources |
| 6 | PKW-26C 6/20/19, ***CONFIDENTIAL*** BPA Transmission Costs |
| 7 8 9 | PKW-27C 6/20/19, ***CONFIDENTIAL*** Gas Mark-to-Model and Open Transport Value |
| 10 | PKW-28C 6/20/19, ***CONFIDENTIAL*** Fixed Gas-for-Power Transportation Costs |
| 11 12 | PKW-29C 6/20/19 ***CONFIDENTIAL*** Distillate Fuel Incremental Costs |
| 13 14 15 | PKW-30C 6/20/19, ***CONFIDENTIAL*** Adjustment to Remove Non-Fuel Costs that are Included in AURORA Model's Peaker Start Costs |
| 16 | PKW-31C 6/20/19, ***CONFIDENTIAL*** Winter Peak Planning Incremental Costs |
| 17 18 | PKW-32 6/20/19, Other Power Costs Chargeable to FERC Account 557 |
| 19 20 | PKW-33C 6/20/19, ***CONFIDENTIAL*** Comparison of Commission Approved Power Costs with Proposed Power Costs in this Proceeding |
| 21 22 | PKW-34CT Paul K. Wetherbee, 1/15/20, ***CONFIDENTIAL*** Rebuttal Testimony (36 pages) |
| 23 24 25 | PKW-35C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Summary of PSE's Proposed Power Costs in Comparison with Power Costs presented in Direct Testimony |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | PKW-36C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** |
| 4 | PSE's Response to WUTC Staff Data Reguest No. 202 |
| 5 6 | PKW-37C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** |
| 7 | 2016 Vaisala Wind Forecast Reports |
| 8 | PKW-38 Paul K. Wetherbee, 1/15/20 Westcoast Pipeline Availability |
| 9 10 | PKW-39C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Power Cost Summary by Resource |
| 11 | PKW-40C Paul K. Wetherbee, 1/15/20 |
| 12 | ***CONFIDENTIAL*** Market Energy Prices |
| 13 14 | PKW-41C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Power Costs Not in AURORA |
| 15 | PKW-42C Paul K. Wetherbee, 1/15/20 |
| 16 | ***CONFIDENTIAL*** Description of Short-term Request for Proposals Process |
| 17 18 | PKW-43C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** AURORA Costs and Energy Outputs |
| 19 | PKW-44C Paul K. Wetherbee, 1/15/20 |
| 20 | ***CONFIDENTIAL*** Skookumchuck Wind Balancing Costs |
| 21 22 | PKW-45C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Day-Ahead Wind Integration Costs |
| 23 24 25 | PKW-46C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Colstrip Fixed Fuel Costs |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | PKW-47C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** |
| 4 | Mid-Columbia Contracts Costs |
| 5 | PKW-48C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** |
| 6 | Bonneville Power Administration Transmission Costs |
| 7 | PKW-49C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** |
| 9 | Gas Mark-to-Model and Open Transport Value |
| 10 | PKW-50C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** |
| 11 | Fixed Gas for Power Transportation Costs |
| 12 | PKW-51C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Distillate Fuel Incremental Costs |
| 14 15 | PKW-52C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Cost Included in Peaker Start Costs |
| 16 17 | PKW-53C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Winter Peak Planning Incremental Costs |
| 18 19 | PKW-54 Paul K. Wetherbee, 1/15/20 FERC 557 Other Power Costs |
| 20 21 | PKW-55C Paul K. Wetherbee, 1/15/20 ***CONFIDENTIAL*** Summary of Power Costs with Full Update |
| 22 | Ronald J. Roberts, Director of Generation and Natural Gas Storage |
| 23 24 | RJR-1T Ronald J. Roberts 6/20/19 Direct Testimony (38 pages) |
| 25 | RJR-2 6/20/19 Professional Qualifications |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | RJR-3C 6/20/19 ***CONFIDENTIAL*** |
| 4 | Details Regarding the Colstrip Steam Electric Station |
| 5 | RJR-4 6/20/19, Press Release of Talen |
| 6 | Montana Announcing the Early Retirement of Colstrip Units 1 & 2 |
| 7 | RJR-5 6/20/19 Press Release of PSE |
| 8 | Regarding the Early Retirement of Colstrip Units 1 & 2 |
| 9 | RJR-6 6/20/19, Colstrip Steam Electric |
| 10 | Station PSE Capital Expenditures Over \$100,000 (October 1, 2016 - |
| 11 | December 31, 2018) |
| 12 | RJR-7 6/20/19 Summary of Rate Year Production O&M Costs |
| 13 | RJR-8 6/20/19 Summary of the Adjustments to |
| 14 | Test Year Expenses in Calculating the Rate Year Production O&M Expenses |
| 15 | RJR-9C 6/20/19 ***CONFIDENTIAL*** |
| 16 | Summary of Colstrip Overhaul Events Included in the Rate Year |
| 17 | RJR-10C 6/20/19 ***CONFIDENTIAL*** Amortization of Major Maintenance |
| 18 | Associated with PSE's Owned and Jointly Owned Simple and Combined Cycle Combustion |
| 19 | Turbine Facilities Included in the Rate Year |
| 20 | RJR-11C 6/20/19 ***CONFIDENTIAL*** Comparison of Amortization of Major |
| 21 | Maintenance Associated with PSE's Owned and |
| 22 | Jointly-Owned Simple and Combined Cycle Combustion Turbine Facilities Included in this Proceeding to Americation of Major |
| 23 | this Proceeding to Amortization of Major Maintenance Associated with PSE's Owned and |
| 24 | Jointly-Owned Simple and Combined Cycle Combustion Turbine Facilities Included in the |
| 25 | 2017 GRC |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | RJR-12 6/20/19, Comparison of Hydro O&M Costs Included in this Proceeding to Hydro O&M Costs Included in the 2017 GRC |
| 5 | RJR-13 6/20/19 Comparison of Wind Production O&M Costs Included in this Proceeding to Wind Production O&M Costs Included in the 2017 GRC |
| 7 | RJR-14T Ronald J. Roberts, 1/15/20 Rebuttal Testimony (26 pages) |
| 9 10 | RJR-15HC Ronald J. Roberts, 1/15/20 Coal Supply Agreement (December 5, 2019) |
| 11 12 | RJR-16 Ronald J. Roberts, 1/15/20 Updated Production O&M Costs |
| 13 | William T. Einstein, Director of Product Development and Growth |
| 14 15 | WTE-1CT William T. Einstein. 6/20/19 ***CONFIDENTIAL*** Direct Testimony (41 pages) |
| 16 | WTE-2 6/20/19 Professional Qualifications |
| 17 18 | WTE-3C 6/20/19 ***CONFIDENTIAL*** Skookumchuck Wind Energy Project, LLC PPA |
| 19 | WTE-4C 6/20/19 ***CONFIDENTIAL*** Lund Hill Solar Project, LLC PPA |
| 20 21 | WTE-5 6/20/19 Exhibit A to 2017 RFP for Renewable Energy |
| 22 | WTE-6HC 6/20/19 ***CONFIDENTIAL*** Green Direct First Open Season RFI Results |
| 23 24 | WTE-7HC 6/20/19 ***CONFIDENTIAL*** Green Direct Second Open Season RFP Results |
| 25 | WTE-8T William T. Einstein, 9/17/19 Supplemental Direct Testimony (6 pages) |
| | |

| 1 | EXHIBIT INDEX (Continued) | | | | |
|----------|---|--|--|--|--|
| 2 | NO. DESCRIPTION PAGE | | | | |
| 3 | WTE-9T William T. Einstein, 1/15/20 Rebuttal Testimony (12 pages) | | | | |
| | Thomas M. Hunt, Director of Compensation and Benefits | | | | |
| 6 | TMH-1T Thomas M. Hunt, 6/20/19 Direct Testimony (33 pages) | | | | |
| 7 | TMH-2 6/20/19 Professional Qualifications | | | | |
| 8 | TMH-3C 6/20/19 ***CONFIDENTIAL*** Merit Increase Trends | | | | |
| 10 | TMH-4 6/20/19 Excerpts from Executive Compensation Portion of Form 10-K | | | | |
| 11 12 | TMH-5C 6/20/19 ***CONFIDENTIAL*** Health Benefit Plans History | | | | |
| 13 | TMH-6 6/20/19 Pension Assets and Pension Benefit Obligations | | | | |
| 14 | TMH-7 6/20/19, 2018 Goals and Incentives Plan | | | | |
| 15 | TMH-8T Thomas M. Hunt, 1/15/20 Rebuttal Testimony (16 pages) | | | | |
| 16 17 | TMH-9 Thomas M. Hunt, 1/15/20 Public Counsel Response to PSE Data Request No. 002 | | | | |
| 18 | CROSS-EXAMINATION EXHIBITS | | | | |
| 19 20 | TMH-10X Public Counsel, PSE Response to Public Counsel Data Request No. 278 | | | | |
| 21 | TMH-11X Public Counsel, PSE Response to Public Counsel Data Request No. 279 | | | | |
| 22 | TMH-12X Public Counsel, PSE Response to Public Counsel Data Request No. 281 | | | | |
| 24 | | | | | |
| 25 | | | | | |
| | | | | | |

| 1 | EXHIBIT INDEX (Continued) | | | |
|----------|--|--|--|--|
| | | | | |
| 2 | NO. DESCRIPTION PAGE | | | |
| 3 | Matthew R. Marcelia, Director of Tax and IT Finance Projects | | | |
| 5 | MRM-1Tr Matthew R. Marcelia, 6/20/19 Revised 1/29/20 Direct Testimony (65 pages) | | | |
| 6 7 | MRM-2 6/20/19 Professional Qualifications | | | |
| 8 | MRM-3 6/20/19 I.R.S. Private Letter Ruling 8920025 | | | |
| 9 | MRM-4 6/20/19 I.R.S. Private Letter Ruling 200824001 | | | |
| 10 11 | MRM-5 6/20/19 I.R.S. Private Letter Ruling 201820010 | | | |
| 12 | MRM-6 6/20/19 Normalizations Provisions in the Tax Cuts and Jobs Act | | | |
| 13 14 | MRM-7 6/20/19 PricewaterhouseCoopers Comments on PSE's ARAM and Normalization Treatment | | | |
| 15 16 | MRM-8 6/20/192014.08.14 Vision Document Budget Project Whitepaper | | | |
| | MRM-9 6/20/19 FTIP Reset Slides | | | |
| 17 18 | MRM-10 6/20/19 FTIP2 CSA Design Close | | | |
| 19 | MRM-11T Matthew R. Marcelia 1/15/20 Rebuttal Testimony (81 pages) | | | |
| 20 | MRM-12 Matthew R. Marcelia 1/15/20IRS Private Letter Ruling 200632017 | | | |
| 21 | CROSS-EXAMINATION EXHIBITS | | | |
| 22 23 | MRM-3 Public Counsel PSE Response to Public Counsel Data Request No. 275 | | | |
| 24 25 | MRM-4X AWEC ***CONFIDENTIAL*** PSE Response to AWEC Data Request No. 050 (2 pages) (1/28/20) | | | |
| | | | | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | Jon A. Piliaris, Director, Regulatory Affairs |
| 4 | JAP-1T Jon A. Piliaris 6/20/19 Direct Testimony (53 pages) |
| 5 | JAP-2 6/20/19 Professional Qualifications |
| 7 | JAP-3 6/20/19Normalized Test Year Revenue from Electric Operations |
| 9 | JAP-4 6/20/19 Normalized Test Year Revenue from Natural Gas Operations |
| LO | JAP-5 6/20/19 Electric Lighting Rate Design |
| L1 | JAP-6 6/20/19Electric Rate Design Proposal |
| L2 L3 | JAP-7 6/20/19Proposed Electric Tariff Schedule Revisions |
| L3 L4 | JAP-8 6/20/19 Sample Calculation of Conjunctive Billed Demand |
| L5 L6 | JAP-9 6/20/19Derivation of Demand Rates under Conjunctive Demand Billing |
| L7 | JAP-10 6/20/19Conjunctive Demand Service Option Tariff Schedule |
| L8 L9 | JAP-11 6/20/19 Electric Delivery Decoupling Mechanism Calculations |
| 20 | JAP-12 6/20/19 Electric Fixed Production Decoupling Mechanism Calculations |
| 21 | JAP-13 6/20/19 Gas Decoupling Mechanism Calculations |
| 23 | JAP-14 6/20/19 Estimated Electric Bill Impacts from Proposed Base and Rider Rates |
| 25 | JAP-15 6/20/19 Estimated Gas Bill Impacts from Proposed Base and Rider Rates |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JAP-16 6/20/19Projected Electric Rate Year Revenue for Attrition Analysis |
| 4 5 | JAP-17 6/20/19Projected Gas Rate Year Revenue for Attrition Analysis |
| 6 7 | JAP-18T Jon A. Piliaris 1/15/20 Rebuttal Testimony (32 pages) |
| 8 | JAP-19 Jon A. Piliaris 1/15/20 Normalized Test Year Revenue from Natural Gas Operations |
| 10 | JAP-20 Jon A. Piliaris, 1/15/20 2019 PAYS® Status Update |
| 11 12 | CROSS-EXAMINATION EXHIBITS |
| 13 14 | JAP-1 The Engery Project, 1/31/20, PSE's Response to The Energy Project's Data Request No. 1 |
| 15 16 | JAP-2 The Engery Project 1/31/20 PSE's Response to The Energy Project's Data Request No. 19 (Included Attachment A) |
| 17 18 | JAP-3 The Engery Project, 1/31/20, PSE's First Revised Response to The Energy Project's Data Request No. 23 (Including Attachment A (Excerpt)) |
| 19 20 21 | JAP-4 The Engery Project 1/31/20 PSE's Response to The Energy Project's Data Request No. 26 |
| 22 | Susan E. Free, Manager of Revenue Requirement |
| 23 | SEF-1Tr Susan E. Free, 60/20/19, revised 8/22/19 Direct Testimony (79 pages) |
| 24 | SEF-2 6/20/19 Professional Qualifications |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | SEF-3 6/20/19 Electric and Natural Gas |
| 4 | Revenue, Net Revenue Change Request |
| 5 | SEF-4 6/20/19 Electric and Natural Gas Summary Pages, Detailed Summaries |
| 6 7 | SEF-5 6/20/19 Electric and Natural Gas Test Year Rate Base, Working Capital, Allocation Methods and Cost of Capital |
| 8 | SEF-6 6/20/19 Revenue Requirement Restating and Pro Forma Adjustments-Common to Electric and Natural Gas |
| 10 | SEF-7 6/20/19 Revenue Requirement |
| 11 | Restating and Pro Forma Adjustments-Electric Only |
| 12 | SEF-8 6/20/19 Revenue Requirement |
| 13 | Restating and Pro For Adjustments- Natural Gas Only |
| 14 15 | SEF-9 6/20/19 Determination of Attrition Basis Amounts for Electric and Natural Gas |
| 16 | SEF-10 6/20/19 Five-Year Cost per Customer |
| 17 | SEF-11 Susan E. Free 6/20/19 Exhibit A-1 |
| 18 | Power Cost and Fixed Production Cost Baseline Rate |
| 19 | SEF-12T Susan E. Free 9/17/19 Supplemental Direct Testimony (9 pages) |
| 20 | |
| 21 | SEF-13 |
| 22 | SEF-14 Susan E. Free 9/17/19 Electric Net |
| 23 | Revenue Change Requested Supplemental Filing (updating Exh. SEF-3E) |
| 24 | |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | SEF-15 Susan E. Free 9/17/19 Electric Summary |
| 4 | Pages and Detailed Summaries Supplemental Filing (updating Exh. SEF-4E) |
| 5 | SEF-16 Susan E. Free 9/17/19 Electric Restating and Pro forma Adjustments Supplemental |
| 6 7 | Filing (only change is to Electric Adjustment SEF-16.20 EP) (Updating Exh. SEF-6E) |
| 8 | SEF-17T Susan E. Free 1/15/20 Rebuttal Testimony (102 pages) |
| 10 | SEF-18 Susan E. Free 1/15/20 Electric and |
| 11 | Natural Gas Revenue Net Revenue Change Requested |
| 12 | SEF-19 Susan E. Free 1/15/20 Electric and Natural Gas Summary Pages, |
| 13 | Detailed Summaries |
| 14 15 | SEF-20 Susan E. Free 1/15/20 Revenue Requirement Restating and Pro forma Adjustments Common to Electric and Natural Gas |
| 16 17 | SEF-21 Susan E. Free 1/15/20 Revenue Requirement Restating and Pro forma Adjustments Electric Only |
| 18 | SEF-22 Susan E. Free 1/15/20 Determination of |
| 19 | Attrition Basis Amounts for Electric and Natural Gas |
| 20 | SEF-23 Susan E. Free 1/15/20 Exhibit A-1 Power Cost and Fixed Production |
| 21 | Cost Baseline Rate |
| 22 23 | SEF-24 Susan E. Free 1/15/20 Comparison of Parties Recommended Electric Net Revenue Change Requested |
| 24 | SEF-25 Susan E. Free 1/15/20 Comparison of |
| 25 | Parties Recommended Natural Gas Net Revenue Change Requested |
| | |

| 1 | EXHIBIT INDEX (Continued) | | | | |
|-----------|---|--|--|--|--|
| 2 | NO. DESCRIPTION PAGE | | | | |
| 3 | SEF-26 Susan E. Free 1/15/20 Regulatory Assets and Liabilities | | | | |
| 4 | SEF-27 Susan E. Free 1/15/20 Trend in | | | | |
| 5 | Average Lives of Intangible Plant Category | | | | |
| 6 7 | SEF-28 Susan E. Free 1/15/20 Excerpts from Historical Approved Schedule 95A Tariff Pages | | | | |
| 9 | SEF-29 Susan E. Free 1/15/20 Corrections to Amounts Calculated by AWEC for Colstrip Units 1 and 2 | | | | |
| 10 11 | SEF-30 Susan E. Free 1/15/20 Colstrip Annual Report filed November 27, 2019 | | | | |
| 12 | SEF-31 Susan E. Free 1/15/20 Example of | | | | |
| 13 | Proposed Reporting of Green Direct Variable Power Costs when PPA Generation Exceeds Program Usage | | | | |
| 14 | SEF-32 Susan E. Free 1/15/20 Example of | | | | |
| 15 16 | Proposed Reporting of Green Direct Variable Power Costs when Program Usage Exceeds PPA Generation | | | | |
| - ° 17 | | | | | |
| 18 | Stephen J. King, Director, Controller and Principal Accounting Officer | | | | |
| 19 | SJK-1T Stephen J. King 6/20/19 Direct Testimony (14 pages) | | | | |
| 20 | SJK-2 6/20/19 Professional Qualifications | | | | |
| 21 | SJK-3 6/20/19 Allocated Results of Operations | | | | |
| 22 | SJK-4 6/20/19 Balance Sheet | | | | |
| 23 | SJK-5 6/20/19 Revised 2018 Affiliated | | | | |
| 24 | Interest and Subsidiary Transaction Report filed with the Commission On May 7, 2010 | | | | |
| 25 | May 7, 2019 | | | | |
| | | | | | |

| 1 | EXHIBIT | EXHIBIT INDEX (Continued) | | | | |
|----------|--|--|----------------|--|--|--|
| 2 | NO. | DESCRIPTION | PAGE | | | |
| 3 | | Ronald J. Amen, Black & Veatch Management Consulting LLC, Director, Advisory and Planning Practice | | | | |
| 4 | RJA-1T Ronald J. Amen 6/20/19 | | | | | |
| 5 | Di | rect Testimony (40 pages) | | | | |
| 6 | RJA-2 | 6/20/19 Professional Qualifica | itions | | | |
| 7 | RJA-3 | 6/20/19 Electric Attrition Study | / | | | |
| 8 | RJA-4 | 6/20/19 Gas Attrition Study | | | | |
| 9 | RJA-5 | 6/20/19 Gas Capacity Resour | ce Allocation | | | |
| 10 | | Ronald J. Amen 1/15/20 Reb estimony (28 pages) | outtal | | | |
| 11 | RJA-7 | | pontial | | | |
| 12 | | Ronald J. Amen 1/15/20 Expo rowth in Rate Base | nieriuai | | | |
| 13 | RJA-8 | Ronald J. Amen 1/15/20 Elect | tric Attrition | | | |
| 14 | RJA-9 | Ronald J. Amen, 1/15/20 Gas | Attrition | | | |
| 15 16 | RJA-10 Ronald J. Amen 1/15/20 Response to WUTC Staff Data Request No. 006 | | | | | |
| 17 | John D. Taylor, Black & Veatch Management Consulting LLC, Principal Consultant | | | | | |
| 18 | JDT-1T Te | John D. Taylor, 6/20/19, Dire | ct | | | |
| 19 20 | JDT-2 | 6/20/19 Professional Qualifica | tions | | | |
| 21 | JDT-3 | 6/20/19 Summary of COSS R | esults | | | |
| 22 | JDT-4 ar | 6/20/19 Account Detail by Cla nd Rate Class | ssification | | | |
| 23 | JDT-5 CI | 6/20/19 Account Inputs and A hoices | llocation | | | |
| 24 25 | JDT-6 | 6/20/19 External Allocation Fa | actors | | | |
| | | | | | | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JDT-7 6/20/19 Rate Apportionment, Proposed |
| 4 | Rates, and Revenue Proofs |
| 5 | JDT-8 6/20/19Demand and Procurement Charge Support |
| 6 7 | JDT-9T John D. Taylor 1/15/20 Rebuttal Testimony (19 pages) |
| 8 | JDT-10 John D. Taylor 1/15/20 Summary of COSS results |
| 9 | JDT-11 John D. Taylor 1/15/20 Account |
| 10 | Detail by Classification and Rate Class |
| 11 | JDT-12 John D. Taylor 1/15/20 Account Inputs and Allocation Choices |
| 12 | JDT-13 John D. Taylor 1/15/20 External |
| 13 | Allocation Factors |
| 14 15 | JDT-14 John D. Taylor 1/15/20 Rate Apportionment, Proposed Rates, and Revenue Proofs |
| 16 17 | JDT-15 John D. Taylor 1/15/20 Demand and Procurement Charge Support |
| 18 | JDT-16 John D. Taylor 1/15/20 Detailed Customer Related Costs from COSS Model |
| 19 20 | Lorin I. Molander, Manager, Load Forecasting and Analysis |
| 21 | LIM-1T Lorin I. Molander Lorin I. Molander 6/20/19 |
| 22 | Direct Testimony (20 pages) |
| 23 | LIM-2 6/20/19 Professional Qualifications |
| 24 | LIM-3T Lorin I. Molander 1/15/20 Rebuttal Testimony (12 pages) |
| 25 | |
| | |

| 1 | EXHIBIT | INDEX (Continued) | | |
|----------|---|--|--|--|
| 2 | NO. | DESCRIPTION | PAGE | |
| 3 | Birud D. | Jhaveri, Manager of F | Pricing and Cost of Service | |
| 4 | BDJ-1T | Birud D. Jhaveri 6/2 irect Testimony (23 pa | | |
| 5 | BDJ-2 | , , , | | |
| 6 7 | BDJ-3C P | 6/20/19 ***CONFID eak Credit Analysis | DENTIAL*** | |
| 8 | BDJ-4 | 6/20/19 Electric Cos | et of Service | |
| 9 | BDJ-5T T | Birud D. Jhaveri 1/1 estimony (17 pages) | 15/20 Rebuttal | |
| 10 11 | BDJ-6 | Birud D. Jhaveri 1/1 om Cost of Service St | | |
| 12 | John J. Spanos, Gannett Fleming Valuation and Rate Consultants, LLC, Senior Vice President | | | |
| 13 14 | JJS-1T D | John J. Spanos 6/20 irect Testimony (6 pag | | |
| 15 | JJS-2 | 6/20/19 Professional | Qualifications | |
| 16 | JJS-3 | 6/20/19 2018 Depred | ciation Study | |
| 17 | JJS-4T R | John J. Spanos 1/18 ebuttal Testimony (12 | | |
| 18 19 | JJS-5 C R | John J. Spanos 1/15 counsel Response to F equest No. 018 | | |
| 20 21 | | n K. Chang, former PS and Cost of Service | SE Regulatory Consultant in | |
| 22 | CKC-1T 6 | Chun K. Chang (ad /20/19 Direct Testimor | dopted by Jon A. Piliaris) ny (7 pages) | |
| 24 | CKC-2 | 6/20/19 Professiona | al Qualifications | |
| 25 | CKC-3 | 6/20/19 2018 Load | Research Report | |
| | | | | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | Joshua A. Kensok, Director FP&A and Budgeting |
| 4 | JAK-1CT Joshua A. Kensok 1/15/20 ***CONFIDENTIAL*** |
| 5 | Rebuttal Testimony (19 pages) |
| 6 7 | JAK-2 Joshua A. Kensok 1/15/20 Professional Qualifications |
| 8 | JAK-3C Joshua A. Kensok 1/15/20 ***CONFIDENTIAL*** 2019 GRC Rate Year Operating Income |
| 10 11 | JAK-4C Joshua A. Kensok 1/15/20 ***CONFIDENTIAL*** 2019-2020 Capital Expenditures and Plant Additions |
| 12 13 14 | JAK-5 Joshua A. Kensok 1/15/20 2014-2018 Actuals vs. Forecast Operations Expenditures, Capital Expenditures and LNG Project |
| 15 | Karl R. Rábago, Principal and sole employee of Rábago Energy LLC |
| 16 17 | KRR-1Tr Karl R. Rábago 1/15/20 Rebuttal Testimony (35 pages) |
| 18 | KRR-2 Karl R. Rábago 1/15/20 Professional Qualifications |
| 19 20 | KRR-3 Karl R. Rábago 1/15/20 PSE Planned Spending |
| 21 | Attrition Panel |
| 22 | CROSS-EXAMINATION EXHIBITS |
| 23 | NWEC-1X NWEC, 1/30/20 PSE Response to NWEC Data Request No. 030 |
| 24 | NWEC-2X NWEC, 1/30/20 PSE Response to NWEC Data Request No. 031 |
| 25 | |
| | 1 |

| 1 | FXHIF | BIT INDEX (Continued) | | |
|----------|--------|---|------------------------------|--|
| 2 | NO. | DESCRIPTION | PAGE | |
| | NO. | | - | |
| 3 | | COMMISSION REGUL | AIURY STAFF | |
| 4 | | iu, Regulatory Analyst | | |
| 5 6 | JL-1C | Tr Jing Liu, 11/22/19 Re ***CONFIDENTIAL*** Responsive Testimony (7 | evised 12/18/19 78 Pages) | |
| 7 | JL-2r | Jing Liu, 11/22/19, Rev Electric Model | vised 12/18/19 | |
| 9 | JL-3r | Jing Liu 11/22/19 Revis | sed 12/18/19 | |
| 10 | JL-4r | Jing Liu, 11/22/19, Rev 1/31/20 Impact of Staff's | vised | |
| 11 | U 5. | Adjustments Electric | | |
| 12 | JL-5r | Jing Liu, 11/22/19, Rev Impact of Staff's Adjustm Natural Gas | | |
| 13 14 | JL-6 | Jing Liu, 11/22/19 Tem Normalization Electric | perature | |
| 15 | JL-6 E | Excel | | |
| 16 17 | JL-7 | Jing Liu, 11/22/19, Tem Normalization Backcast E | nperature Electric | |
| 18 | JL-7 E | Excel | | |
| 19 | JL-8 | Jing Liu, 11/22/19 Tem Normalization Natural Ga | | |
| 20 | JL-8 E | Excel | | |
| 21 | JL-9 | Jing Liu, 11/22/19 Tem | perature | |
| 22 | | Normalization Backcast Natural Gas | | |
| 23 | JL-9 E | Excel | | |
| 24 | | | | |
| 25 | | | | |
| | | | | |
| | i e | | | |

| 1 | EXHIBIT | INDEX (Continued) | |
|----------|---------------------|---|------------|
| 2 | NO. | DESCRIPTION | PAGE |
| 3 | JL-10C | Jing Liu 11/22/19 | |
| 4 | Co | CONFIDENTIAL*** Olstrip Major Maintenance | |
| 5 | | udget v. Actual v. In Rates | |
| 6 | JL-10C E | | |
| 7 | Co | Jing Liu, 11/22/19 Distrip Major Maintenance 117 2018 | |
| 8 | JL-11 Ex | cel | |
| | JL-12C | Jing Liu, 11/22/19 CONFIDENTIAL*** | |
| 10 11 | PS | SE Support for Colstrip Major aintenance 2020 | |
| 12 | JL-13C | Jing Liu 11/22/19 *CONFIDENTIAL*** | |
| 13 14 | PS | SE Response to WUTC Data equest No.75 (Ronald Roberts' F | Response) |
| 15 16 | | Jing Liu, 11/22/19 CONFIDENTIAL*** Distrip Common Cost Budget | |
| 17 | JL-15C *** Co | Jing Liu, 11/22/19 CONFIDENTIAL*** olstrip O&M Budget v. Actual | |
| 18 19 | JL-15C E | xcel | |
| 20 | | Jing Liu, 11/22/19 aff's Revised Centralia PPA | |
| 21 | Ec | quity Adder | |
| 22 | JL-17C | Jing Liu, 11/22/19 ***CONFIDE | ENTIAL*** |
| 23 | JL-17C2 | | |
| 24 | JL-17C3 | Staff Recommended Variable | Power Cost |
| 25 | | | |
| | | | |
| | | | |

| 1 | EXHIB | BIT INDEX (Continued) | |
|--|--------|---|--|
| 2 | NO. | DESCRIPTION PAGE | |
| 3 | JL-180 | C Jing Liu, 11/22/19 ***CONFIDENTIAL*** | |
| 4 | | PSE's Explanation of the Difference Between a Single Run and 80 Runs | |
| 5 6 | JL-19r | Jing Liu, 11/22/19, Revised 12/18/19 Staff's Attrition Analysis | |
| 7 | JL-20r | Jing Liu, 11/22/19, Revised 12/18/19 Attrition Base and Growth Factor Comparison | |
| 9 | JL-21 | Jing Liu, 11/22/19 PSE Response to AWEC Data Request 20 | |
| 11 | JL-22 | Jing Liu, 11/22/19 PSE Response to AWEC DR 20 Revised | |
| 12 13 | JL-230 | C Jing Liu, 11/22/19 ***CONFIDENTIAL*** PSE's Capital Expenditure Plan | |
| 14 15 | JL-24T | Γ Jing Liu, Cross-Answering Testimony of Jing Liu (17 pages) | |
| 16 17 | JL-25 | Jing Liu PSE HELP Spending Details for October 2018 - September 2019 Program Year (PSE Second Revised Response to UTC Staff Data Request No. 230) | |
| 18 | JL-26 | Jing Liu, PSE HELP Spending Details by Community Action Agency for the Last Three Program Years (PSE Revised Response to UTC Staff Data Request No. 231) | |
| 2021 | JL-27 | Jing Liu PSE's Determination of HELP Administrative Fees (PSE Response to UTC Staff Data Request No. 232) | |
| 222324 | JL-28 | · | |
| 25 | | | |

| 1 | EXHIBIT INDEX (Continued) |
|--------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JL-29 Jing Liu, HELP Service Contract between PSE and Community Action Agencies |
| 4 | (PSE Response to UTC Staff Data Request No. 234) |
| 5 | Cristina S. Steward, Regulatory Analyst |
| 6 7 | CSS-1T Cristina S. Steward 11/22/19 Responsive Testimony (15 pages) |
| 8 9 10 | CSS-2 Cristina S. Steward, 11/22/19, IRS Revenue Procedure 2017-47, Safe Harbor for Inadvertent Normalization Violations |
| 11 | CSS-3 Cristina S. Steward 11/22/19 Shuffleton Property Sale Adjustment |
| 12 13 | CSS-3 Excel |
| 14 | Chris R. McGuire, Assistant Director of Energy Regulation |
| 15 16 | CRM-1T Chris R. McGuire 11/22/19 Responsive Testimony (47 pages) |
| 17 18 | CRM-2 Chris R. McGuire 11/22/19 PSE's Annual Colstrip Report, November 30, 2018 |
| 19 | Aimee N. Higby, Regulatory Analyst |
| 20 | ANH-1Tr Aimee N. Higby, 11/22/19, Revised 1/32/20 Responsive |
| 21 | Testimony (42 pages) |
| 22 | ANH-2 Aimee N. Higby, 11/22/19, Digital Innovation: Creating the Utility of the Future |
| 23 24 | ANH-3 Aimee N. Higby, 11/22/19, The Future of Regulation: Principles for Regulating Emerging Technologies |
| 25 | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | ANH-4 Aimee N. Higby, 11/22/19, Customer Centricity: Lynchpin of Utility Strategy |
| 5 | ANH-5 Aimee N. Higby, 11/22/19, PSE Response to UTC Staff Data Request No. 205 (Redacted) |
| 7 | Jason L. Ball, Deputy Assistant Director of Energy Regulation |
| 8 | JLB-1T Jason L. Ball, 11/22/19, Responsive Testimony (74 pages) |
| LO | JLB-2 Jason L. Ball 11/22/19 Excerpts from Ball Testimony in |
| L1 L2 | 2017 PSE GRC JLB-3 Jason L. Ball, 11/22/19, NARUC Resolution on Modeling Energy Storage and Other Flexible Resources |
| L3 L4 | JLB-4 Jason L. Ball, 11/22/19, Company's Responses to Various Data Requests |
| L5 | JLB-5 Jason L. Ball, 11/22/19, Excerpt from 11th Supplemental Order in PSE 1992 GRC |
| L6 L7 | JLB-6 Jason L. Ball 11/22/19 PSE 2017 Decoupling Evaluation |
| L 7 | JLB-7 LB-7 Excel, Jason L. Ball, 11/22/19 Electric Bill Impact Analysis |
| L9 | JLB-8 Jason L. Ball, 11/22/19 Natural Gas Bill Impact Analysis |
| 20 21 | JLB-8 Excel |
| 22 | JLB-9 Jason L. Ball, 11/22/19, Time-varying and Dynamic Rate Design, RAP |
| 23 24 | JLB-10 Jason L. Ball, 11/22/19, Experiences from Consumer Behavior Studies on Engaging Customers, DOE |
| 25 | |
| - 1 | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JLB-11 Jason L. Ball, 11/22/19, Rate Design for the Distribution Edge, RMI |
| 4 5 | JLB-12 Jason L. Ball, 11/22/19, Innovation in the Mobile Industry |
| 6 7 | JLB-13 Jason L. Ball, 11/22/19, Digital Innovation: Creating the Utility of the Future |
| 8 | JLB-14 Jason L. Ball, 11/22/19, The Internet of Things: Mapping the Value Beyond the Hype |
| 9 | JLB-15 Jason L. Ball, 11/22/19, The Internet of Things: An Overview |
| 11 | JLB-16 Jason L. Ball, 11/22/19, Flexibility for 21st Century Power Systems |
| 12 13 | JLB-17 Jason L. Ball, 11/22/19, Volt/VAR Optimization Benefits |
| 14 | JLB-18 Jason L. Ball, 11/22/19, International Evidence on Dynamic Pricing |
| 15 16 | JLB-19 Jason L. Ball, 11/22/19, The Status and Promise of Advanced M&V |
| 17 18 | JLB-20 Jason L. Ball, 11/22/19, Experiences of Vulnerable Customers, Lawrence Berkeley National Laboratory |
| 19 | JLB-21 Jason L. Ball, 11/22/19, Nexant Report on TOU Pricing Opt-In Pilot Plan |
| 20 21 | JLB-22 Jason L. Ball, 11/22/19, A Primer on Time-Variant Electricity Pricing, EDF |
| 22 | JLB-23 Jason L. Ball, 11/22/19, EVGO Fleet and Tariff Analysis, RMI |
| 23 24 | JLB-24 Jason L. Ball, 11/22/19, Oregon Commission Acknowledgement of PGE Pilot |
| 25 | JLB-25 Jason L. Ball, 11/22/19, Memo to Mayor's Office from Seattle City Light |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JLB-26 Jason L. Ball, 11/22/19, Advancing the Practice of Rate Design |
| 4 5 | JLB-27 Jason L. Ball, 11/22/19, PNNL Olympic Peninsula Project |
| 6 | JLB-28T Jason L. Ball, 1/15/20, Cross-Answering Testimony of Jason L. Ball (20 pages) |
| 7 | JLB-29 Jason L. Ball, 1/15/20, Staff Memo in Docket UG-161268 |
| 9 | JLB-30 Jason L. Ball, 1/15/20, Staff Memo in Docket UG-180920 |
| 10 | JLB-31 Jason L. Ball, 1/15/20, Various Data Requests |
| 11 12 | Kathi B. Scanlan, Acting Senior Resource Planning Manager, Conservation and Energy Planning |
| 13 14 | KBS-1CT Kathi B. Scanlan, 11/22/19 ***CONFIDENTIAL*** Responsive Testimony (18 pages) |
| 15 16 | KBS-2 Kathi B. Scanlan, 11/22/19 Electric Green Direct Adjustment Staff-12.03 |
| 17 | KBS-3 Kathi B. Scanlan, 11/22/19 Gas Green Direct Adjustment Staff-12.03 |
| 18 19 | KBS-4 Kathi B. Scanlan, 11/22/19, PSE Responses to Staff Data Request Nos. 071 and 123 |
| 20 | KBS-5C Kathi B. Scanlan, 11/22/19 |
| 21 | ***CONFIDENTIAL*** PSE Response to Staff Data Requests |
| 22 | Nos. 094, 095C, and 096C |
| 23 24 | KBS-6 Kathi B. Scanlan, 11/22/19, PSE Response to Staff Data Request Nos. 182 and 183 |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) | |
|----------|---|--------------|
| 2 | 2 NO. DESCRIPTION PA | AGE |
| 3 | KBS-7 Kathi B. Scanlan, 11/22/19, PSE Responses to Staff Data Request | |
| 4 | | |
| 5 | David C. Gomez, Assistant Power Supply Ma | nager |
| 6 7 | ***CONFIDENTIAL*** | sed 12/11/19 |
| 8 | B DCG-2 David C. Gomez, 11/22/19, PSE's Form 10-K filing for December 31, 201 | |
| 9 | DCG-3 David C. Gomez, 11/22/19, Colstri Units 3 & 4 Particulate Matter (PM) | p |
| 11 | | DUO |
| 12 13 | Dr. Ezra D. Hausman, Sierra Club | ony of |
| 14 15 | DCG-5 David C. Gomez, 11/22/19, Sologi UE-190324 PSE Resp. To Staff Inf. DI Nos. 3 and 10 | |
| 16 17 | DCG-6 David C. Gomez, 11/22/19, State of State Implementation Plan and Region Federal Implementation Plan (FIP) | |
| 18 | DCG-7 David C. Gomez, 11/22/19, State of | |
| 19 | DCG-8 David C. Gomez, 11/22/19, Sectio Colstrip Unit 3 and 4 Ownership and | n 17 |
| 20 | | |
| 21 | DCG-9 David C. Gomez, 11/22/19, Colstri Units 3 & 4 NOx Emissions, US Enviro | |
| 22 | Protection Agency, Clean Air Markets Division (CAMD) | |
| 23 | DCG-10 David C. Gomez, 11/22/19, Colstr | |
| 24 | Agreement (ARCSA) Section 7.1 | upply |
| 25 | 25 | |
| | 1 | |

| 1 | EXHIBIT INDEX (Continued) |
|--|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | DCG-11 David C. Gomez 11/22/19, Testimony Exhibit, Mark Taylor; Talen SB 252 |
| 4 5 | DCG-12 David C. Gomez, 11/22/19, Montana Governor Bullock Veto SB 252 |
| 6 7 | DCG-13 David C. Gomez, 11/22/19, MDEQ Major Facility Siting Act Certificate Amendment May 10, 2019 |
| 8 | DCG-14 David C. Gomez, 11/22/19, MDEQ Montana Air Quality Permit #0513-11 March 13, 2019 |
| 9 | DCG-15 David C. Gomez, 11/22/19, Record of Decision, Rosebud Mine Area F Federal Mining Plan, OSMRE June 2019 |
| 11 12 | DCG-16 David C. Gomez, 11/22/19, PSE 2017 IRP Acknowledgement Letter July 8, 2019 |
| 13 | DCG-17 David C. Gomez, 11/22/19, PSE Paul Wetherbee Response to Staff DR No. 75 |
| 14 15 | DCG-18 David C. Gomez, 11/22/19, PSE Response to Staff Data Request No. 57 |
| 16 17 | DCG-19 David C. Gomez, 11/22/19, PSE's Response to Staff DR No. 173; Colstrip Units 3 & 4 Coal Contract |
| 18 19 | DCG-20 David C. Gomez, 11/22/19, PSE Response to Staff DR No. 174; Colstrip Units 3 & 4 Coal Contract |
| 20 21 | DCG-21 David C. Gomez, 11/22/19, PSE's Response to Staff DR No. 159 Fixed-Pipeline Costs (redacted) |
| 22 | DCG-22 David C. Gomez, 11/22/19, PSE's 2017 IRP, Chapter 7 Gas Analysis |
| 232425 | DCG-23 David C. Gomez, 11/22/19, Avista GRC, Docket No. UE-190334; Response Testimony of Avi Allison |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | DCG-24 David C. Gomez, 11/22/19, UE-960195 Fourteenth Supplemental Order, Appendix A |
| 5 | |
| 6 | DCG-25 David C. Gomez, 11/22/19, PSE Response to Staff DR No. 70 |
| 7 | DCG-26C David C. Gomez, 11/22/19, ***CONFIDENTIAL*** 2016 Vaisala Operational Reforecast; |
| 8 | Hopkins Ridge, Wild Horse, Wild Horse Expansion and Lower Snake River |
| 10 | DCG-27C David C. Gomez, 11/22/19, ***CONFIDENTIAL*** |
| 11 | Generation Forecasts of PSE's Wind Resources |
| 12 | DCG-28 David C. Gomez, 11/22/19, U.S. DOE, Office of Energy Efficiency & |
| 13 | Renewable Energy, 2018 Wind Technologies Market Report |
| 14 15 | DCG-29 David C. Gomez, 11/22/19, PSE response to Staff DR No. 171; Tacoma LNG |
| 16 | CROSS-EXAMINATION EXHIBITS |
| 17 | DCG-30X Puget Sound Energy, Testimony of |
| 18 | David C. Gomez (DCG-1T) in Docket UE-190882 addressing Colstrip Outage capital costs (excerpt) |
| 19 | DCG-1X Puget Sound Energy, Staff Work Paper Colstrip |
| 20 | Outage Revised Adjustment (2 pages) |
| 21 | David C. Parcell, Principal and Senior Economist, Technical Associates, Inc. |
| 22 23 | DCP-1T David C. Parcell, 11/22/19, Responsive Testimony (52 pages) |
| 24 | DCP-2 David C. Parcell, 11/22/19, Background and Experience Profile |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | DCP-3 David C. Parcell, 11/22/19, Puget Sound Energy Total Cost of Capital |
| 4 | DCP-4 David C. Parcell, 11/22/19, |
| 5 | Economic Indicators |
| 6 7 | DCP-5 David C. Parcell, 11/22/19, Electric Utility Rate Cases where ROE was Determined in 2017-2018 and ROE Awards in Prior Cases |
| 9 | DCP-6 David C. Parcell, 11/22/19, Puget Sound Energy History of Credit Ratings |
| 10 | DCP-7 David C. Parcell, 11/22/19, Puget Sound Energy Capital Structure Ratios |
| 11 12 13 | DCP-8 David C. Parcell, 11/22/19, Proxy Companies Average Common Equity Ratios DCP-9 David C. Parcell, 11/22/19, Proxy |
| 14 | Companies Basis for Selection DCP-10 David C. Parcell, 11/22/19, Proxy Companies DCF Cost Rates |
| 15 16 | DCP-11 David C. Parcell, 11/22/19, Standard & Poor's 500 ROE and 20-Year Treasury Bond Returns |
| 17 18 | DCP-12 David C. Parcell, 11/22/19, Proxy Companies CAPM Cost Rates |
| 19 20 | DCP-13 David C. Parcell, 11/22/19, Proxy Companies ROE and M/B |
| 21 | DCP-14 David C. Parcell, 11/22/19, Standard & Poor's 500 ROE and M/B |
| 22 | DCP-15 David C. Parcell, 11/22/19, Risk Indicators |
| 23 | David J. Panco, Regulatory Analyst |
| 24 25 | DJP-1T David J. Panco, Cross-Answering Testimony of David J. Panco (11 pages) |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | James T. Woodward, Regulatory Analyst |
| 4 | JTW-1T James T. Woodward, Cross-Answering Testimony of James T. Woodward (14 pages) |
| 5 | JTW-2 James T. Woodward, NWEC Response to Staff Data Request No. 3 |
| 7 | PUBLIC COUNSEL |
| 8 | Paul Alvarez, President of the Wired Group |
| 9 | PJA-1T Paul Alvarez, 11/22/19, Responsive Testimony (29 pages) |
| 10 11 | PJA-2 Paul Alvarez, 11/22/19, Qualifications/ Curriculum Vitae |
| 12 | PJA-3 Paul Alvarez, 11/22/19, Calculation of Carrying Charges on Legacy Equipment |
| 13 14 | PJA-4 Paul Alvarez, 11/22/19, Puget Sound Energy Response to Public Counsel Data Request No. 70 (First Revised Response) |
| 15 16 17 | PJA-5 Paul Alvarez, 11/22/19 Puget Sound Energy Response to Public Counsel Data Request No. 146, Attachment A |
| 18 | PJA-5 Excel |
| 19 | PJA-6 Paul Alvarez, 11/22/19, Puget Sound Energy Response to Public Counsel |
| 20 | Data Request No. 85 |
| 21 | PJA-7 Paul Alvarez, 11/22/19, Puget Sound Energy Response to Public Counsel Data |
| 22 | Request No. 23 |
| 23 24 | PJA-8T Paul Alvarez, 1/15/20, Cross-Answering Testimony (9 pages) |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | Susan Baldwin, Independent Consultant |
| 4 | SMB-1 Susan Baldwin, 11/22/19 ***CONFIDENTIAL*** |
| 5 | Responsive Testimony (52 pages) |
| 6 7 | SMB-2 Susan Baldwin, 11/22/19, Qualifications / CV |
| 8 | SMB-3 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 103 |
| 10 | SMB-4 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 101 |
| 11 12 | SMB-5 Susan Baldwin, 11/22/19, PSE Response to The Engery Project Data Request 12 |
| 13 | SMB-6 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 113 |
| 14 15 | SMB-7 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request Nos. 110 and 111 |
| 16 17 | SMB-8 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 121, Attachment A |
| 18 19 | SMB-9 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 108, Attachment A |
| 20 | SMB-10 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 104 |
| 21 22 | SMB-11C Susan Baldwin, 11/22/19 ***CONFIDENTIAL*** |
| 23 | SMB-11C PSE Response to Public Counsel Data Request No. 101, Attachment A |
| 24 | SMB-11CPSE Response PC DR 101 Attachment A (C) |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | SMB-12 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 138 |
| 4 5 | SMB-13 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 116, Attachments A and B |
| 6 7 | SMB-14 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 105 |
| 8 | SMB-15C Susan Baldwin, 11/22/19, ***CONFIDENTIAL*** PSE Response to Public Counsel Data Request No. 210, Attachment A |
| 10 11 | SMB-16 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 227, Revised Supplement |
| 12 | SMB-17 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 129 |
| 13 14 | SMB-18 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 143 |
| 15 16 | SMB-19 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 144, Attachment A |
| 17 | SMB-19PSE Response PC DR 144 Attachment A |
| 18 | SMB-20 Susan Baldwin, 11/22/19, PSE |
| 19 | Response to Public Counsel Data Request No. 107 |
| 20 | SMB-21 Susan Baldwin, 11/22/19, PSE |
| 21 | Response to Public Counsel Data Request No. 122 |
| 22 23 | SMB-22 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 218, Attachment A |
| 24 | SMB-22PSE Response PC DR 218 Attachment A |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | SMB-23 Susan Baldwin, 11/22/19, PSE Response to Public Counsel Data Request No. 226 |
| 4 | SMB-24 Susan Baldwin, 11/22/19, PSE Response to |
| 5 | Public Counsel Data Request No. 145, Attachment E |
| 6 7 | SMB-25 Susan Baldwin, 11/22/19, GTZ Test Year and Rate Year Costs |
| 8 | Mark E. Garrett, President of Garrett Group Consulting, Inc. |
| 10 | MEG-1T Mark Garrett, 11/22/19, Responsive Testimony (70 pages) |
| 11 12 | MEG-2 Mark Garrett, 11/22/19, Qualifications / Curriculum of Mark E. Garrett |
| 13 | MEG-3 Mark Garrett, 11/22/19, Electric Revenue Requirement |
| 14 | MEG-3 (with actual AMA plant 11-21) |
| 15 | MEG-3r Mark Garrett, 12/12/19, Revised Electric Revenue Requirement |
| 16 17 | MEG-4 Mark Garrett, 11/22/19, Natural Gas Revenue Requirement |
| 18 | MEG-4 (with Actual AMA plant 11-21) |
| 19 | MEG-4r Mark Garrett, 12/12/19, Revised Natural Gas Revenue Requirement |
| 20 | MEG-5 Mark Garrett, 11/22/19, State |
| 21 | Commission Orders |
| 22 | MEG-6 Mark Garrett, 11/22/19, Puget Sound Energy Response to WUTC Staff Data |
| 23 | Request No. 67 |
| 24 | |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|-------------------------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | Glenn A. Watkins, President and Senior Economist with Technical Associates, Inc. |
| 45 | GAW-1T Glenn A. Watkins, 11/22/19, Responsive Testimony (63 pages) |
| 6 7 | GAW-2 Glenn A. Watkins, 11/22/19, Background & Experience Profile |
| 9 | GAW-3C Glenn A. Watkins, 11/22/19 ***CONFIDENTIAL*** PSE Wind/Hydro Production during Peak Hours |
| 10 | GAW-3C(R) |
| 11 | GAW-3C Excel |
| 12 13 | GAW-4C Glenn A. Watkins, 11/22/19 ***CONFIDENTIAL*** Assignment of Capital Costs to Hours for Probability of Dispatch |
| 14 15 | GAW-4C(R) |
| 16 | GAW-5 Glenn A. Watkins, 11/22/19, Assignment of Hourly Costs to Classes for Probability of Dispatch |
| 17 18 | GAW-6 Glenn A. Watkins, 11/22/19, PSE Probability of Dispatch Class Cost of Service Study |
| 19 | GAW-6 Excel |
| 20 | GAW-7 Glenn A. Watkins, 11/22/19, PSE Base- Intermediate-Peak Classification |
| 21 | GAW-7 Excel |
| 22 | GAW-8 Glenn A. Watkins, 11/22/19, PSE Base-Intermediate-Peak Class Cost of Service Study |
| 24 25 | GAW-8 Excel |
| J | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | GAW-9 Glenn A. Watkins, 11/22/19, Electric Residential Customer Cost Analysis |
| 4 | GAW-9 Excel |
| 5 | GAW-10 Glenn A. Watkins, 11/22/19, PSE Change in Mains Allocation from "Compromise" to PSE Proposed Approach |
| 7 | GAW-10 Excel |
| 9 | GAW-11 Glenn A. Watkins, 11/22/19, Natural Gas Residential Customer Cost Analysis |
| 10 | GAW-11 Excel |
| 11 | GAW-12 Glenn A. Watkins, 11/22/19, PSE Responses to Public Counsel Data |
| 12 | Request Nos. 157, 162, 163, 164, 168, 170, and 172 |
| 13 14 | GAW-13CT Glenn A. Watkins, 1/15/20 ***CONFIDENTIAL*** Cross-Answering Testimony (22 pages) |
| 15 16 17 | GAW-14C Glenn A. Watkins, 1/15/20 ***CONFIDENTIAL*** Output and Capacity Factors of Wind and Hydro |
| 18 | GAW-15 Glenn A. Watkins, FEA (Al-Jabir) |
| 19 | Calculated Class 4-NCPs (Page 1); Date and Time of Class Monthly NCPs (Page 2) |
| 20 | J. Randall Woolridge, Professor of Finance at Pennsylvania State University |
| 21 | JRW-1T J. Randall Woolridge, 11/22/19, Responsive |
| 22 | Testimony (92 pages) |
| 23 24 | JRW-2 J. Randall Woolridge, 11/22/19, Qualifications of J. Randall Woolridge, Ph.D. |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | JRW-3 J. Randall Woolridge, 11/22/19, Recommended Cost of Capital |
| 4 | · |
| 5 | JRW-4 J. Randall Woolridge, 11/22/19, Summary Financial Statistics for Proxy Group |
| 6 7 | JRW-5 J. Randall Woolridge, 11/22/19, Capital Structure and Debt Cost Rate |
| 8 | JRW-6 J. Randall Woolridge, 11/22/19, The Relationship Between Estimated ROE and Market-to-Book Ratios |
| 10 | JRW-7 J. Randall Woolridge, 11/22/19, Utility Capital Cost Indicators |
| 11 12 | JRW-8 J. Randall Woolridge, 11/22/19, DCF Model |
| 13 | JRW-9 J. Randall Woolridge, 11/22/19, DCF Study |
| 14 15 | JRW-10 J. Randall Woolridge, 11/22/19, CAPM Study |
| 16 17 | JRW-11 J. Randall Woolridge, 11/22/19, PSE's Rate of Return Recommendation |
| 18 | JRW-12 J. Randall Woolridge, 11/22/19, GDP and S&P 500 Growth Rates |
| 19 | JRW-13T J. Randall Woolridge, 1/15/20, Cross-Answer Testimony (20 pages) |
| 20 21 | JRW-14 J. Randall Woolridge, 1/15/20, Comparison Table |
| 22 | Carla Colamonici, Regulatory Analyst |
| 23 | CAC-1CT Carla Colamonici (Adopted by Sarah E. |
| 24 | Laycock), 1/22/19 ***CONFIDENTIAL*** Posponsive Testimony (22 pages) |
| 25 | Responsive Testimony (22 pages) |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | CAC-2 Carla Colamonici (Adopted by Sarah E. |
| 4 | Laycock), 11/22/19, Puget Sound Energy Response to Public Counsel Data Reguest No. 97 |
| 5 | CAC-3 Carla Colamonici (Adopted by Sarah E. |
| 6 7 | Laycock), 11/22/19, Puget Sound Energy Response to Public Counsel Data Request No. 94, Attachment A. |
| 8 | CAC-3DR 094 Attach A |
| 9 | CAC-4 Carla Colamonici, (Adopted by Sarah E. |
| 10 | Laycock), 11/22/19, Puget Sound Energy Response to Public Counsel Data Request |
| 11 | No. 93 with Attachment A, No. 96 with Attachment A, and 178 |
| 12 | CAC-4DR 093 Attachment A |
| 13 | CAC-4DR 096 Attachment A |
| 14 15 | CAC-5 Carla Colamonici (Adopted by Sarah E. Laycock), 11/22/19, Puget Sound Energy Response to Public Counsel Response No. 176 |
| 16 17 18 | CAC-6 Carla Colamonici (Adopted by Sarah E. Laycock), 11/22/19, Puget Sound Energy Response to Public Counsel Response No. 91 |
| 19 | CAC-7 Carla Colamonici (Adopted by Sarah E. |
| 20 | Laycock), 11/22/19, Puget Sound Energy Response to WUTC Staff Data Request |
| 21 | No. 94 |
| 22 | CAC-8C Carla Colamonici (Adopted by Sarah E. Laycock), 11/22/19 ***CONFIDENTIAL*** |
| 23 | Puget Sound Energy Response to WUTC Staff Data Request No. 95 |
| 24 | CAC-8C (Redacted) |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | CAC-9C Carla Colamonici (Adopted by Sarah E. |
| 4 | Laycock), 11/22/19 ***CONFIDENTIAL*** Puget Sound Energy Response to WUTC Staff |
| 5 | Data Request No. 96 |
| 6 7 | CAC-10 Carla Colamonici (Adopted by Sarah E. Laycock), 11/22/19, Puget Sound Energy Response to WUTC Staff Data Request No. 97 |
| 8 | Sarah E. Laycock, Regulatory Analyst |
| 9 | SEL-1T Sarah E. Laycock, 1/30/20, Response Testimony (3 pages) |
| 10 | AWEC |
| 11 12 | Michael P. Gorman, Consultant and Managing Principal of Brubaker & Associates, Inc. |
| 13 | MPG-1T Michael P. Gorman, 11/22/19, Responsive Testimony (20 pages) |
| 14 15 | MPG-2 Michael P. Gorman, 11/22/19, Qualifications |
| 16 17 | MPG-3 Michael P. Gorman, 11/22/19, Change in Rate Base and Depreciation |
| 18 | MPG-4 Michael P. Gorman, 11/22/19 Credit Metrics Comparison |
| 19 20 | Bradley G. Mullins, Independent Energy and Utilities Consultant |
| 21 | BGM-1T Bradley G. Mullins, 11/22/19, Responsive Testimony (45 pages) |
| 22 | BGM-2 Bradley G. Mullins 11/22/19 Regulatory Appearances of Bradley G. Mullins |
| 24 | BGM-3 Bradley G. Mullins, 11/22/19, Electric Service Revenue Requirement |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | BGM-4 Bradley G. Mullins, 11/22/19, Gas Service Revenue Requirement |
| 4 5 | BGM-5 Bradley G. Mullins, 11/22/19, Responses to Data Requests |
| 6 | BGM-6 Bradley G. Mullins, 11/22/19, TCJA Normalization Requirements |
| 7 | BGM-7 Bradley G. Mullins, 11/22/19, Normalization Demonstration |
| 9 | BGM-8T Bradley G. Mullins, 1/15/20, Cross-Answering Testimony (16 pages) |
| 10 11 | BGM-9 Bradley G. Mullins, 1/15/20, Electric Service Cross-Answering Revenue Requirement |
| 12 13 | BGM-10 Bradley G. Mullins, 1/15/20, Gas Service Cross-Answering Revenue Requirement |
| 14 15 | BGM-11C Bradley G. Mullins, 1/15/20 ***CONFIDENTIAL*** Response to AWEC Data Request 50 |
| 16 | BGM-12 Bradley G. Mullins, 1/15/20, Revisions and Responses to Data Requests |
| 17 18 | BGM-13C Bradley G. Mullins, 1/15/20 ***CONFIDENTIAL*** Colstrip Retirement Accounting Tables |
| 19 20 | Brian C. Collins, Principal of Brubaker & Associates, Inc. |
| 21 | BCC-1T Brian C. Collins, 1/15/20, Cross-Answering Testimony (12 pages) |
| 22 23 | BCC-2 Brian C. Collins, 1/15/20, Professional Qualifications |
| 24 | |
| 25 | |
| | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | NWEC |
| 4 | Amy E. Wheeless, Policy Associate, NWEC |
| 5 6 | AEW-1T Amy E. Wheeless, 11/22/19 Direct Testimony (23 pages) |
| 7 | AEW-2 Amy E. Wheeless, 11/22/19, PSE Response to NWEC Data Request No. 007, Attachment B |
| 9 | AEW-3 Amy E. Wheeless, 11/22/19, PSE Response to NWEC Data Request No. 002, Attachment A |
| 10 | AEW-4 Amy E. Wheeless, 11/22/19, PSE Response to NWEC Data Request No. 018, Attachment A |
| 12 | AEW-5 Amy E. Wheeless, 11/22/19, PSE Response to NWEC Data Request No. 002, Attachment D |
| 14 15 16 17 | AEW-6 Amy E. Wheeless, 11/22/19, In re Revision to Tariff WN U-2 to Establish a New Line Extension Policy, Docket No. UG-161268, PSE Cover Letter (Dec. 6, 2016) |
| 18 19 20 | AEW-7 Amy E. Wheeless, 11/22/19, In re Investigation of Natural Gas Distribution Infrastructure Expansion, Docket No. UG-143616, Comments of Avista Utilities (Sept. 17, 2015) |
| 21 22 | AEW-8 Amy E. Wheeless, 11/22/19, In re Investigation of Natural Gas Distribution Infrastructure Expansion, Docket No. UG-143616, Presentation by Avista |
| 23 | Utilities (Sept. 23, 2015) AEW-9 Amy E. Wheeless, 11/22/19, PSE Response to Staff Data Request No. 015, Attachment A |
| 25 | |

| 1 | EXHIBIT INDEX (Continued) |
|----------------|---|
| 2 | NO. DESCRIPTION PAGE |
| 3 | AEW-10 Amy E. Wheeless, 11/22/19, PSE Response to Staff Data Request No. 215, Attachment A |
| 4 5 | AEW-11 Amy E. Wheeless, 11/22/19, PSE Response to NWEC Data Request No. 009 |
| 6 | AEW-12 Amy E. Wheeless, 11/22/19, PSE Response to NWEC Data Request No. 015, Redacted Version |
| 7 | Wendy M. Gerlitz, Policy Associate at the NW Energy Coalition |
| 9 | WMG-1T Wendy M. Gerlitz, 11/22/19, Direct Testimony (23 pages) |
| 10 11 | WMG-2 Wendy M. Gerlitz, 11/22/19, PSE Response to AWEC Data Request No. 016 |
| 12 | WMG-3 Wendy M. Gerlitz, 11/22/19, PSE Response to NWEC Data Request No. 026 |
| 13 14 15 | WMG-4 Wendy M. Gerlitz, 11/22/19, PSE Response to NWEC Data Request No. 014 Attach A; Financing RFI's, PSE RFI Craft 3 Response 053017 |
| 16 17 18 | WMG-5 Wendy M. Gerlitz, 11/22/19, Clean Energy Works, What is Inclusive Financing and Why Are Some of the Largest States in the Country Calling for it Now? |
| 19 | The Engery Project |
| 20 | Shawn M. Collins, Director of The Engery Project |
| 21 | SMC-1T Shawn M. Collins, 11/22/19, Responsive Testimony (31 pages) |
| 22 23 | SMC-2 Shawn M. Collins, 11/22/19, Professional Qualifications |
| 24 | |
| 25 | |

| 1 | EXHIBIT INDEX (Continued) |
|----------|--|
| 2 | NO. DESCRIPTION PAGE |
| 3 | The Federal Executive Agencies |
| 4 | Ali Al-Jabir, Energy Advisor and Associate with Brubaker & Associates, Inc. |
| 5 | AZA-1T Ali Al-Jabir, 11/22/19, Responsive |
| 6 | Testimony (46 pages) |
| 7 | AZA-2 Ali Al-Jabir, 11/22/19, Professional Qualifications |
| 9 | AZA-3 Ali Al-Jabir, 11/22/19, Cost of Service Study Results Parity Ratios |
| 10 | AZA-4 Ali Al-Jabir, 11/22/19, Electric Class Cost of Service Study Results at |
| 11 | Present and Company Proposed Rates Under the Company's Cost of Service Study |
| 12 | AZA-5 Ali Al-Jabir, 11/22/19, FEA's Proposed Electric Revenue Distribution |
| 14 15 | AZA-6T Ali Al-Jabir, 1/15/20 Cross-Answering Testimony (24 pages) |
| 16 | AZA-7 Ali Al-Jabir, 1/15/20, Comparison of Basis Differential Under Various Revenue Allocation Proposals |
| 17 18 | The Kroger Co. |
| 19 | Kevin C. Higgins, Principal at Energy Strategies, LLC. |
| 20 | KCH-1T Kevin C. Higgins, 11/22/19, Responsive Testimony (20 pages) |
| 21 | KCH-2 Kevin C. Higgins, 11/22/19, Comparison of PSE Proposed Rate Spread |
| 23 | KCH-3T Kevin C. Higgins, 1/15/20, Cross-Answering Testimony (12 pages) |
| 24 | |
| 25 | |
| | |

| 1 | LACEY, WASHINGTON; FEBRUARY 6, 2020 |
|----|---|
| 2 | 1:07 P.M. |
| 3 | 000 |
| 4 | PROCEEDINGS |
| 5 | |
| 6 | JUDGE PEARSON: So let's be on the record. |
| 7 | If you're ready. |
| 8 | Good afternoon. Today is Thursday, |
| 9 | February 6, 2020. The time is approximately 1:07 p.m. |
| 10 | My name is Rayne Pearson, I'm the |
| 11 | Administrative Law Judge with the Washington Utilities |
| 12 | and Transportation Commission, and I will be presiding |
| 13 | in this matter along with the Commissioners who will |
| 14 | join us in a few moments. |
| 15 | We're here today for an evidentiary hearing |
| 16 | in consolidated dockets: UE-1190529; UG-1909530; |
| 17 | UE-190274; UG-190275; UE-190991; UG-190992; UE-171225; |
| 18 | and UG-171226, which are PSE's Electric and Natural Gas |
| 19 | general rate case and also its accounting petitions |
| 20 | related to Get To Zero, the Green Direct Program, and |
| 21 | the Tax Cuts and Jobs Act. |
| 22 | So let's take short appearances starting |
| 23 | with PSE, and then we'll go around the room. |
| 24 | MS. CARSON: Good afternoon, Your Honor. |
| 25 | Sheree Strom Carson with Perkins Coie representing PSE. |
| | |

| 1 | And also here with me today from Perkins Coie |
|----|--|
| 2 | representing PSE are Jason Kuzma, Donna Barnett, and |
| 3 | David Steele. |
| 4 | MS. BARLOW: This is Marie Barlow |
| 5 | representing the Northwest Energy Coalition. |
| 6 | MR. PEPPLE: Tyler Pepple, with Davison |
| 7 | Van Cleve representing the Alliance of Western Energy |
| 8 | Consumers. |
| 9 | MR. COLEMAN: Brent Coleman also with |
| 10 | Davison Van Cleve for on about behalf AWEC. |
| 11 | MR. FFITCH: Simon ffitch representing The |
| 12 | Engery Project. |
| 13 | MS. PAISNER: Ann Paisner with the Public |
| 14 | Counsel Unit with the Washington State Attorney General. |
| 15 | MS. GAFKEN: Lisa Gafken, Assistant Attorney |
| 16 | General, appearing on behalf of public counsel. |
| 17 | MR. ROBERSON: Jeff Roberson, AAG, appearing |
| 18 | for Staff. |
| 19 | MS. CAMERON-RULKOWSKI: Jennifer |
| 20 | Cameron-Rulkowski, Assistant Attorney General, appearing |
| 21 | on behalf of staff. And with me in the case are also |
| 22 | Harry Fukano, Joe Dallas, Nash Callaghan, and Daniel |
| 23 | Teimouri, Assistance Attorneys General. |
| 24 | THE COURT: Okay. Thank you. |
| 25 | And Ms. Liotta. |
| | |

| 1 | MS. LIOTTA: Yes, Your Honor. Rita Liotta |
|----|---|
| 2 | with the Federal Executive Agencies. |
| 3 | THE COURT: Mr. Boehm. |
| 4 | MR. BOEHM: Curt Boehm, appearing on behalf |
| 5 | of The Kroger Company, doing business as Fred Meyer |
| 6 | stores. |
| 7 | THE COURT: Great. Thank you. |
| 8 | So now that we're on the record I will ask |
| 9 | again if the parties stipulate to the admission of all |
| 10 | of the pre-filed exhibits and testimony? |
| 11 | MS. CAMERON-RULKOWSKI: Commission staff so |
| 12 | stipulates. |
| 13 | MS. GAFKEN: Public Counsel stipulates. |
| 14 | MR. FFITCH: The Engery Project stipulates. |
| 15 | MR. COLEMAN: AWEC stipulates. |
| 16 | MS. BARLOW: NWEC stipulates. |
| 17 | MS. CARSON: PSE stipulates. |
| 18 | THE COURT: And, Ms. Liotta, you do as well; |
| 19 | correct? |
| 20 | MS. LIOTTA: Yes, FEA so stipulates. |
| 21 | THE COURT: And Mr. Boehm. |
| 22 | MR. BOEHM: Kroger so stipulates. |
| 23 | THE COURT: So I will provide a copy of the |
| 24 | exhibit list with the court reporter so it will be made |
| 25 | part of the record. |
| | |

| 1 | And just to let everyone know, I have made |
|----|---|
| 2 | all of the corrections identified by the parties. And I |
| 3 | will circulate the final exhibit list to the parties |
| 4 | after the hearing is over. |
| 5 | MS. CAMERON-RULKOWSKI: Your Honor? |
| 6 | THE COURT: Yes. |
| 7 | MS. CAMERON-RULKOWSKI: May I have your |
| 8 | attention? |
| 9 | I know that Nucor Steel has been excused |
| L0 | from the hearing, but we do have an e-mail indicating |
| L1 | that Nucor also stipulates to the admission of all of |
| L2 | the exhibits. |
| L3 | THE COURT: Okay. Thank you. I appreciate |
| L4 | that. |
| L5 | Okay. So is there anything else we need to |
| L6 | discuss before we turn to the schedule for today's |
| L7 | hearing? |
| L8 | Okay. Hearing nothing. |
| L9 | After the Commissioners join us, we'll begin |
| 20 | cross-examination. |
| 21 | So first we'll convene the attrition panel, |
| 22 | followed by the cost of capital panel, the cost service |
| 23 | rate spread and rate design panel, and then finally the |
| 24 | IT investment panel. After that, we will call |
| 25 | individual witnesses in the order agreed to by the |
| | |

| 1 | parties. |
|----|--|
| 2 | MS. CARSON: Your Honor, would you like us |
| 3 | to have the attrition panel come on up now? |
| 4 | JUDGE PEARSON: I was just going to say |
| 5 | that. |
| 6 | If the attrition panel could make their way |
| 7 | to the witness panel while we take a recess, I will go |
| 8 | and get the Commissioners; and then I will swear you all |
| 9 | in as soon as we reconvene. |
| 10 | So with that, we will take a short recess |
| 11 | and I will go and get the Commissioners. |
| 12 | (A recess was taken from 1:14 p.m. to 1:20 p.m.) |
| 13 | JUDGE PEARSON: Okay. We'll be back on the |
| 14 | record following a short recess. I am joined by Chair |
| 15 | Danner, Commissioner Rendahl, and Commissioner Balasbas. |
| 16 | The parties have stipulated to the admission |
| 17 | of all the pre-filed exhibits including the |
| 18 | cross-examination exhibits. |
| 19 | So let's just briefly go around the room and |
| 20 | take short appearances again beginning with the Company. |
| 21 | MS. CARSON: Good afternoon, Commissioners. |
| 22 | Sherry Strom Carson with Perkins Coie representing Puget |
| 23 | Sound Energy. And also here with me today representing |
| 24 | Puget Sound Energy are Jason Kuzma, Donna Barnett, and |
| 25 | David Steele. |
| | |

| MS. BARLOW: Good afternoon. Marie Barlow, |
|--|
| with Sanger Law representing Northwest Energy Coalition. |
| MR. PEPPLER: Tyler Pepple with Davison |
| Van Cleve representing the Alliance of Western Energy |
| Consumers. |
| MR. COLEMAN: Brent Coleman also with |
| Davison Van Cleve on behalf of the Alliance of Western |
| Energy Consumers. |
| MR. BOEHM: Good afternoon. Kurt Boehm |
| appearing on behalf of The Kroger Company and Fred Meyer |
| Stores. |
| MR. FFITCH: Good afternoon. Simon ffitch |
| on behalf of The Engery Project. |
| MS. PAISNER: Ann Paisner on behalf of the |
| Washington State Attorney General, Public Counsel Unit. |
| MS. GAFKEN: Good afternoon. Lisa Gafken, |
| Assistant Attorney General, appearing on behalf of |
| Public Counsel. |
| MR. ROBERSON: Jeff Roberson, AAG, for |
| Staff. |
| MS. CAMERON-RULKOWSKI: Good afternoon. |
| |
| Jennifer Cameron-Rulkowski, Assistant Attorney General, |
| Jennifer Cameron-Rulkowski, Assistant Attorney General, court commission staff. And with me on this case are |
| • |
| |

| | Dan Doyle by Commissioner Balasbas |
|----|--|
| 1 | JUDGE PEARSON: And Ms. Liotta? |
| 2 | MS. LIOTTA: Good afternoon. Rita Liotta |
| 3 | representing the Federal Executive Agencies. |
| 4 | THE COURT: Okay. Thank you. |
| 5 | So the attrition panel is assembled at the |
| 6 | witness table. If you could all please stand and raise |
| 7 | your right hand. I'll swear you in simultaneously. |
| 8 | (Panel Sworn) |
| 9 | THE COURT: Okay. Please be seated. |
| 10 | Ms. Carson, if you please introduce your |
| 11 | witnesses. |
| 12 | MS. CARSON: Certainly. |
| 13 | We will start at the top there with |
| 14 | Mr. Piliaris, Jon Piliaris; Dan Doyle; David Mills; Josh |
| 15 | Kensok; Ron Amen; Carl Rábago; Susan Free; Cathy Koch; |
| 16 | and Matt Marcelia. |
| 17 | THE COURT: Thank you. And I understand |
| 18 | that AWEC has waived its cross-examination of this |
| 19 | panel. So we will go straight to the questions from the |
| 20 | Commissioners. |
| 21 | COMMISSIONER BALASBAS: All right. Good |
| 22 | afternoon, everyone. |
| 23 | So I will direct this question to whoever |
| 24 | would like to take a stab at the answer. |
| 25 | So throughout this throughout the |

| | Dan Doyle by Commissioner Balasbas |
|----|--|
| 1 | testimony from the company on the need for an attrition |
| 2 | adjustment, there was a lot of discussion and |
| 3 | preponderance of costs being beyond the company's |
| 4 | control as well as costs that maybe the company |
| 5 | potentially may not be able to control. |
| 6 | What I did not see in the testimony, though, |
| 7 | is any or very little, if any, mention about cost |
| 8 | controls. |
| 9 | So if the company or if the Commission |
| 10 | were to grant an attrition adjustment in this case, what |
| 11 | assurance can you give to the commission that the |
| 12 | company will do everything it can to control costs going |
| 13 | forward? |
| 14 | MR. DOYLE: I guess I'll take that one, |
| 15 | Commissioner Balasbas. |
| 16 | Dan Doyle, Chief Financial Officer. |
| 17 | I think that there was some testimony in |
| 18 | in my pre-file direct which talked about the savings |
| 19 | that we harvested during the rate plan period 2013 |
| 20 | through 2017, if I'm getting my dates right, and the |
| 21 | programs that continued thereafter. |
| 22 | In particular, what I would site in terms of |
| 23 | cost control and capital broader capital |
| 24 | allocation-type protocols, we continue to limit our |

growth in OPEX, O&M expenditures, to the rate of

25

| Dan Doyle by Commissioner Balasbas |
|---|
| customer growth which is depending upon whether |
| you're talking electric or gas, it's one to one and a |
| half percent per year, which trend is about a hundred |
| basis points under where we're seeing inflation. |

That's been very, very effective for us in terms of making sure that our OPEX dollars are going to the highest priority expenditure categories benefitting customers and -- and basically maintaining our plant equipment across the board.

When you get to CAPEX -- and I also should mention that we also -- we have a program called "Be Excellent Program." Not my favorite title, but it is what it is.

It's a program that really goes in and looks at a lot of different areas in the company that are not significant in any one way, shape, or form. It could be a hundred thousand dollars here or a million dollars there, half a million dollars.

But what it does culturally, is it basically sets the tone in the organization that no dollar is too small to chase. So that would be the other side of -- of the OPEX.

When you get to the CAPEX side of the equation, I lay out six or seven categories of spend that we look at. And in any one year, the competition

| | Dan Doyle by Commissioner Balasbas |
|----|--|
| 1 | for capital can be one and a half to two times of what |
| 2 | we can ultimately spend in terms of prudent financial |
| 3 | parameters and metrics in operating the business |
| 4 | prudently. |
| 5 | So in in any given in any given year, |
| 6 | you know, there's a lot of projects that will get pushed |
| 7 | out as we look at things on a strategic level. Number |
| 8 | one, corporate capacity. |
| 9 | Do we have the capacity to do all the things |
| 10 | we want to do strategically? |
| 11 | What are the impact on customer rates? |
| 12 | What are the impact on credit metrics? |
| 13 | How fast are we harvesting strategic benefit |
| 14 | for the for the benefit of customers in terms of a |
| 15 | reliability or the G to Z in terms of interfacing with |
| 16 | our customers, those sorts of things. |
| 17 | And then we kind of go down into some of the |
| 18 | operational areas from there and and prioritize based |
| 19 | on different criteria across the business, but trying to |
| 20 | get that portfolio of spend which gives us the biggest |
| 21 | bang for the buck. So it's a fairly rigorous process. |
| 22 | I'll stop there and see if you have any |
| 23 | follow-up. |
| 24 | CHAIRMAN DANNER: So just to be clear, the |
| 25 | Be Excellent Program is focused on the operational |

| Dan Doyle by Chairman Danner |
|--|
| that's on the O&M side, not on the CAP side? |

MR. DOYLE: It can bleed over to the capital side, Commissioner, as well. And if you look at a particular program, one that comes to mind, we were looking at -- and I'm not really sure if this even goes to the capital side, but it was looking at mobile devices. And we had a lot of duplication that we just changed policy, paired back on it.

But to the extent dollars would get allocated into a clearing account from those expenditures, it could end up in the capital account.

CHAIRMAN DANNER: Okay. So when you mentioned all of these things: What is the corporate capacity? What is the inside rate and all those things?

For everything that you've asked on the capital side in this general rate case, are you saying that they have all gone through that kind of scrutiny so anything that you're asking for in terms of recovery of a capital expenditure has gone through that kind of es quizo [verbatim].

MR. DOYLE: Yes. So basically what we will do is we will run a five-year plan. We look at capital across that five-year plan. And I would say the highest amount of rigor that I talked about would be applied probably early -- in the earlier years of that plan,

| | Dan Doyle by Chairman Danner |
|----|---|
| 1 | only because you've got a line-of-sight timeline-wise. |
| 2 | It's very difficult very difficult to apply that |
| 3 | rigor and say year five. |
| 4 | So give you an example. We don't budget |
| 5 | capital for storms. To the extent in year three, we |
| 6 | were to get a Hanukkah-Eve-type storm, a |
| 7 | snowmaggenden-type storm. I think those are our |
| 8 | acronyms for our 2012 storm. |
| 9 | And the Hanukkah Eve would be you know, |
| 10 | was \$110 million dollars in 2006. That would be a |
| 11 | \$250 million storm this year. |
| 12 | So that's probably 25 or 30 percent of our |
| 13 | overall capital budget. If that happened in year three, |
| 14 | that's going to change and shift the amount of capital |
| 15 | that we would be able to spend during that period of |
| 16 | time and still meet our financial metrics. It just |
| 17 | makes you shift and move things around. |
| 18 | So the rigor is applied earlier in the plan. |
| 19 | And certainly every time we set a new plan, the first |
| 20 | two years have pretty much gone through that. |
| 21 | COMMISSIONER RENDAHL: So this question is |
| 22 | for Mr. Mills, but could be for anybody else who wants |
| 23 | to answer this question as well. |
| 24 | So the way this case is structured is this |

is a -- a traditional rate case plus attrition; correct?

| | David Mills by Commissioner Rendahl |
|----|--|
| 1 | MR. MILLS: Correct. |
| 2 | COMMISSIONER RENDAHL: It's not captured in |
| 3 | any sort of a number of years that the attrition is |
| 4 | supposed go out; so it's not a multiyear rate plan? |
| 5 | MR. MILLS: It is not a multiyear rate plan. |
| 6 | COMMISSIONER RENDAHL: Okay. Is your mike |
| 7 | on? |
| 8 | MR. MILLS: Maybe it's not close enough. |
| 9 | That's correct. It is not a multiyear rate |
| 10 | plan. |
| 11 | COMMISSIONER RENDAHL: So if the Commission |
| 12 | were to authorize the attrition adjustment in this case |
| 13 | or the attrition plan that you've requested in this |
| 14 | case, customers would see this amount in the rates as if |
| 15 | it were base rates; right? They're not going to see a |
| 16 | different line item that says "attrition." |
| 17 | MR. PILIARIS: I'm maybe better suited to |
| 18 | answer that question. |
| 19 | The answer would be no, it is not going to |
| 20 | be a separate amount on their bill. It would be covered |
| 21 | through base rates. |
| 22 | COMMISSIONER RENDAHL: Okay. So customers |
| 23 | would then pay those rates into the rate effective |
| 24 | period, however long that is; correct? Whether it's one |
| 25 | year or beyond. |

| Jon Piliaris b | / Commissioner | Rendahl |
|----------------|----------------|---------|
|----------------|----------------|---------|

| MR. PILIARIS: | Until rates are changed |
|--------------------------|-------------------------|
| subsequently; isn't that | correct? |

COMMISSIONER RENDAHL: So the amount that you're requesting for all the various projects, there's no indication of how far into the future, so to speak, that -- that those expenses will continue to be in customers' rates until the company files another rate case and you make a decision; correct?

MR. PILIARIS: I think it is consistent with even traditional practice where rates are set for a particular level of expenditure, a particular level of rate base, a particular assumption about the revenues that will be collected and the loads that will be served, and that relationship is assumed a hold until the rates are changed. So there will be more expenditures going forward into the rate year and beyond.

Obviously, those will be replaced by costs that roll off. So plant that gets depreciated and retires and gets replaced with new plant, it gets added.

So as long as that relationship holds, those rates should be sufficient to cover them.

It's just a matter of whether or not that relationship does hold as new expenditures are made over time.

| | Jon Piliaris by Commissioner Rendahl |
|----|---|
| 1 | COMMISSIONER RENDAHL: And so has maybe |
| 2 | this whoever this is for, does the company have plans |
| 3 | for a future general rate case within another couple of |
| 4 | years? What is that plan for the future? |
| 5 | MR. PILIARIS: Yeah. The company's |
| 6 | five-year plan currently contemplates the need for yet |
| 7 | another rate case filed sometime within within a year |
| 8 | of the conclusion of this case. |
| 9 | COMMISSIONER RENDAHL: All right. So with |
| 10 | the attrition going forward beyond the test year and |
| 11 | then into the rate year, I'm assuming most of you or |
| 12 | some of you may have read the policy statement that we |
| 13 | just issued. |
| 14 | What appropriate review should the |
| 15 | Commission engage in if we approve the attrition plan? |
| 16 | MR. PILIARIS: So the company is has read |
| 17 | the policy statement. Of course, we're still digesting |
| 18 | it. It's fairly fresh. |
| 19 | CHAIRMAN DANNER: Just for the record, |
| 20 | you're talking about the Used and Useful Policy |
| 21 | Statement? |
| 22 | MR. PILIARIS: That's correct, Chair Danner. |
| 23 | Thank you very much. |
| 24 | We read with interest the requirement for |

reporting after rates go into effect using an attrition

Jon Piliaris by Commissioner Rendahl mechanism or multiyear rate plan.

The company is committed to reporting to the extent the Commission requests in the form the Commission requests, we haven't contemplated exactly what that may look like. So we would appreciate guidance to the extent that the Commission has specific things that it would like to see as part of that reporting.

But we take the policy statement to suggest that there is an interest in knowing that the -- that the expenditures that form the basis for rates actually did occur in the rate effective period and to be able to validate that.

That is probably more to the used component of the used and useful discussion.

The useful element of that is more the prudence of those expenditures. But post hoc prudence.

And we would expect that those would, at least currently, envision those to be reviewed in a future rate case similar to the way in our previous multiyear rate plan that the Commission approved back in 2013 we provided -- we acknowledge that there would be an opportunity for parties and the Commission to review all of our expenditures over that rate plan period to determine the prudence of those after the fact.

| | Jon Piliaris by Commissioner Rendahl |
|----|--|
| 1 | COMMISSIONER RENDAHL: But none of that |
| 2 | granted you didn't have the Use and Useful Policy |
| 3 | Statement. But you reference the statute repeatedly. |
| 4 | So none of that post-review period is included in any of |
| 5 | your testimony; correct? |
| 6 | Any of the Company's testimony? |
| 7 | MR. PILIARIS: To my knowledge, a specific |
| 8 | reporting plan has not been put forth. |
| 9 | CHAIRMAN DANNER: So this is a question for |
| 10 | Mr. Doyle. |
| 11 | In your rebuttal testimony, and specifically |
| 12 | I'm talking about DAD-17 7T at page 22. |
| 13 | You propose a change in the company's |
| 14 | earning sharing mechanism. And you call it an |
| 15 | "increment customer protection" for an attrition |
| 16 | adjustment in the case. |
| 17 | And basically the proposal is setting |
| 18 | sharing bands in an increment of 3 percent of the net |
| | |

My question is -- basically, is the structure of this proposal of the 3 percent increment, is that applicable to any attrition adjustment that might be authorized in that case? In other words, if it's less or more than what you request, is that still

operating income based on PSE's initial revenue.

the number that you're looking at?

19

20

21

22

23

| | Carl Rábago by Commissioner Rendahl |
|----|---|
| 1 | MR. DOYLE: That's a good question, |
| 2 | Commissioner Danner. I'm proposing that sharing ban |
| 3 | protection which biases more of excess earnings |
| 4 | obviously toward customers as you move through the |
| 5 | range, as a replacement of the current 50/50 excess |
| 6 | earning sharing mechanism. |
| 7 | CHAIRMAN DANNER: Okay. So I would take |
| 8 | that as a "yes." |
| 9 | MR. DOYLE: Yes. |
| 10 | COMMISSIONER RENDAHL: I have a question for |
| 11 | Mr. Rábago. Aren't you glad you're here? |
| 12 | So in your testimony you have Exhibit, which |
| 13 | is your KRR-3. |
| 14 | MR. RÁBAGO: Yes. |
| 15 | COMMISSIONER RENDAHL: Which is very |
| 16 | instructive |
| 17 | (Off-record discussion regarding microphone.) |
| 18 | MR. RÁBAGO: Hi. |
| 19 | COMMISSIONER RENDAHL: Hi. So do you have |
| 20 | your Exhibit KRR-3? |
| 21 | MR. RÁBAGO: Yes. |
| 22 | COMMISSIONER RENDAHL: Okay. So this is a |
| 23 | very illustrative exhibit of sort of the entire set |
| 24 | of, I guess what you would call in your testimony the |
| 25 | transformational investments that need to be made for |

| | Carl Rábago by Commissioner Rendahl |
|----|--|
| 1 | the company. |
| 2 | MR. RÁBAGO: Yes, ma'am. |
| 3 | COMMISSIONER RENDAHL: Okay. So if you look |
| 4 | in the column that says "rate your forecast." The |
| 5 | largest amount of those investments occur in what we |
| 6 | might call the programmatic investments; correct? |
| 7 | MR. RÁBAGO: Yes. |
| 8 | COMMISSIONER RENDAHL: That 300 sorry, |
| 9 | the print is very small 323-point-something |
| 10 | MR. RÁBAGO: Point nine. |
| 11 | COMMISSIONER RENDAHL: million dollars. |
| 12 | And those are for high molecular weight, worst |
| 13 | performance circuits, et cetera; correct? |
| 14 | MR. RÁBAGO: Yes. |
| 15 | COMMISSIONER RENDAHL: So those are the |
| 16 | so for this is where the attrition kicks in, in your |
| 17 | mind, is allowing those transformative investments to be |
| 18 | made. |
| 19 | MR. RÁBAGO: Yes. And in ensuring that |
| 20 | there's adequate earnings to support those expenditures |
| 21 | for those foundational-type investments. |
| 22 | COMMISSIONER RENDAHL: Because without that, |
| 23 | in your mind, the company would lose earnings? |
| 24 | MR. RÁBAGO: And without this these kinds |
| 25 | of costs are going to come due anyway in terms of |

| | Carl Rábago by Commissioner Rendahl |
|----|--|
| 1 | upgrading and improving the condition of the system and |
| 2 | other things in the future, like CETA implementation are |
| 3 | going to necessitate, if you will, a healthy grid. |
| 4 | So these are as as I described sort of |
| 5 | foundational investments that have come due, if you |
| 6 | will, and need to be done in order to prepare the |
| 7 | utility for the future. |
| 8 | COMMISSIONER RENDAHL: Thank you. |
| 9 | JUDGE PEARSON: Okay. I think that |
| 10 | concludes questions from the bench. So you all may go |
| 11 | back to your seats. Some of you will be recalled again |
| 12 | later. |
| 13 | And so my understanding is that there are no |
| 14 | questions for the cost of capital panel from the bench. |
| 15 | So I think we're going to move straight to |
| 16 | the cost of service rate spread and rate design panel. |
| 17 | MS. GAFKEN: And Dr. Moore may be excused. |
| 18 | I believe, he is on the telephone. |
| 19 | MS. CAMERON-RULKOWSKI: And, Your Honor, I |
| 20 | would ask the same for David Parcell who's also on the |
| 21 | phone. |
| 22 | MR. PARCELL: Thank you, Your Honor. |
| 23 | JUDGE PEARSON: So, Mr. Piliaris, you are |
| 24 | already sworn in. |
| 25 | If the rest of you could please stand and |

| | John Taylor by Ms. Gafken | |
|----|---|--|
| 1 | raise your right hand. | |
| 2 | (Panel sworn) | |
| 3 | JUDGE PEARSON: Ms. Barnett, are you | |
| 4 | introducing these witnesses? | |
| 5 | MS. BARNETT: Yes. Thank you. | |
| 6 | I'll introduce Jon Piliaris. But next to | |
| 7 | him is Birud Jhaveri, and Mr. Amen as you met, and | |
| 8 | Mr. John Taylor. | |
| 9 | JUDGE PEARSON: Okay. Thank you. | |
| 10 | So Ms. Gafken. | |
| 11 | MS. GAFKEN: Thank you. | |
| 12 | My plan is to pose questions to two of the | |
| 13 | panel witnesses. And I'll just take them one at a time. | |
| 14 | I would like to start with Mr. Taylor and | |
| 15 | then move on to Mr. Piliaris. | |
| 16 | CROSS-EXAMINATION | |
| 17 | BY MS. GAFKEN: | |
| 18 | Q. Good afternoon, Mr. Taylor. | |
| 19 | A. Good afternoon. | |
| 20 | Q. Would you please turn to your direct testimony, | |
| 21 | Exhibit JDT-1T at page 12, line 17. | |
| 22 | A. Yes. I'm there. | |
| 23 | Q. Beginning there and continuing through page 13, | |
| 24 | line 3, you describe that "mains costs are assigned a | |
| 25 | special contract customers using PSE's geographic | |

| | John Taylor by Ms. Gafken |
|----|--|
| 1 | information system or GIS; correct? |
| 2 | A. Correct. |
| 3 | Q. Will you please turn to page 16 lines 15 through |
| 4 | 16 of the same exhibit, JDT-1T. |
| 5 | A. Yep, I'm there. |
| 6 | Q. There you state that 0.1315 percent of Mains |
| 7 | were directly assigned to special contract customers |
| 8 | based on the study of Mains; correct? |
| 9 | A. Yes. |
| LO | Q. Would you please turn to Exhibit JDT-4. |
| L1 | And for this exhibit, I'll have two different |
| L2 | reference points; one for the physical copy and then one |
| L3 | for electronic copy depending on how people are looking |
| L4 | at it. |
| L5 | On the print copy of JDT-4, would you please |
| L6 | turn to page 8. |
| L7 | On the electronic copy, it's columns "BB" as in |
| L8 | "boy, boy" or through "BH." |
| L9 | A. Okay. I'm on page 8 of JDT-4. |
| 20 | Q. Okay. So page 8 shows data related to special |
| 21 | contracts; correct? |
| 22 | A. Yes. |
| 23 | Q. Sir, we're going to stay with JDT-4 for the next |
| 24 | few questions and we'll stay on page 8. |
| 25 | A. Okav. |

| | | John Taylor by Ms. Gafken |
|----|--------|---|
| 1 | Q. | So Mains Plant is shown as Account 376; correct? |
| 2 | A. | Yes. |
| 3 | Q. | And there are two entries for Mains Plant, |
| 4 | Acco | ount 376, and those two lines are associated with |
| 5 | peak | and average mains; correct? |
| 6 | A. | Correct. |
| 7 | Q. | Average mains shows a total of \$855,521; |
| 8 | corre | ect? |
| 9 | A. | Yes. |
| 10 | Q. | And peak mains shows a total amount of |
| 11 | \$1,79 | 98,521; correct? |
| 12 | A. | Yes. |
| 13 | Q. | Would you accept, subject a check, that the sum |
| 14 | of th | ose two numbers is approximately 2.6 million? |
| 15 | A. | Yes. |
| 16 | Q. | So switching gears. |
| 17 | | You present your cost I'm sorry, you present |
| 18 | your | gas cost of service study in Exhibit JDT-3; |
| 19 | corre | ect? |
| 20 | A. | Yes, that's the summary of the study. It |
| 21 | provi | des information at a higher level where the other |
| 22 | | its provide some more details. |
| 23 | | You submitted work papers related to JDT-3; is |
| 24 | that | correct? |
| 25 | Α. | Correct. |

Page: 255

| | John Taylor by Ms. Gafken |
|----|---|
| 1 | Q. Do you have your work papers with you or access |
| 2 | to them? |
| 3 | A. Some but not all of them. Which one? |
| 4 | Q. I do have a paper copy if we need it. |
| 5 | But I'm looking at the tab, "Mains cost." It |
| 6 | was the last tab in the electronic copy. |
| 7 | A. Of which work paper? |
| 8 | Q. The work paper for JDT-3. |
| 9 | JUDGE PEARSON: Ms. Gafken, do we have that |
| 10 | in evidence? |
| 11 | MS. GAFKEN: I did not make it an exhibit. |
| 12 | I just wanted to ask him about two numbers on it. |
| 13 | I do have paper copies, if it's useful for |
| 14 | the witness to look at it. And I have copies for others |
| 15 | if they would like to see it as well. |
| 16 | JUDGE PEARSON: Just go ahead. That's fine. |
| 17 | MR. TAYLOR: I'll take a paper copy. It |
| 18 | might be quicker. |
| 19 | MS. GAFKEN: Okay. |
| 20 | MR. TAYLOR: I have it here now. |
| 21 | BY MS. GAFKEN: |
| 22 | Q. Okay. In your work papers, you show the cost of |
| 23 | Mains attributed to various types and sizes of mains |
| 24 | under a tab called "Mains costs"; correct? |
| 25 | A. Correct. |

John Taylor by Ms. Gafken

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q. I don't know if you need to check this -- or accept it subject to check, but I'm happy to have that be a condition of this.

But would you accept that your work paper shows the amount of Mains Plant allocated direct to Boeing is \$4,893,490?

A. That's the -- I wouldn't depict -- I wouldn't say that was allocated to Boeing. That's the result of the special study that is utilizing, as you can see in the column, 2018 dollars. So just to spend a minute here.

MR. PEPPLER: I'm sorry. Can I interrupt for a second?

I believe this is a confidential work paper.

I just wanted to --

CHAIRMAN DANNER: Whether it's confidential or not, I'm just trying to figure out if we should be having a conversation on it.

JUDGE PEARSON: Ms. Gafken, if you intend to rely on this in your brief in any way, we will need it offered and entered into the record, so -- and if it is confidential, then can we check that?

MS. GAFKEN: Okay. I will definitely check that. I did not think it was confidential.

So my apologies. I did not mean to disclose

| | John Taylor by Ms. Gafken |
|----|---|
| 1 | anything that shouldn't have been disclosed. |
| 2 | MR. TAYLOR: I might be able to help, |
| 3 | though. |
| 4 | Do you want me to help for a second here to |
| 5 | describe what I did and where these numbers are derived |
| 6 | from? |
| 7 | BY MS. GAFKEN: |
| 8 | Q. Sure. |
| 9 | A. Okay. All right. So so the methodology that |
| 10 | was used for the work paper that you're citing that you |
| 11 | provided a copy for was to look at 2018 dollars. So |
| 12 | everything has been adjusted for inflation using a |
| 13 | Handy-Whitman index. |
| 14 | So the dollars that you see in this work paper, |
| 15 | because plants have been invested over the history of |
| 16 | the asset, you know, you have an asset that was put in |
| 17 | service in 1970. Well, to have a comparison that's |
| 18 | relevant, you have to bring it all in the same dollar |
| 19 | units and so we use 2018 dollars. |
| 20 | So the amount that is in this work paper that |
| 21 | shows that's direct to the special contract customer is |
| 22 | in 2018 dollars, whereas in the cost of service study |
| 23 | were we're not adjusting plant for inflation, but using |
| 24 | the imbedded cost of that plant. |

So there's going to be a difference between the

| | John Taylor by Ms. Gafken |
|----|--|
| 1 | total dollar seen in any cost of service work paper from |
| 2 | that and which is in the special study. |
| 3 | Q. Okay. Let's return to your direct testimony |
| 4 | Exhibit JDT-1T, page 12, line 17 through page 13, |
| 5 | line 3. |
| 6 | A. Okay. I'm there. |
| 7 | Q. The GIS study tracked all Mains utilized by the |
| 8 | special contracts from the customers' meters back to the |
| 9 | city gate; is that correct? |
| 10 | A. Correct. |
| 11 | Q. And some of these Mains were tracked from the |
| 12 | customers' meters back to the city gate are used by a |
| 13 | multitude of customers; is that correct? |
| 14 | A. Yes, some are. |
| 15 | Q. So some of these mains captured by the GIS study |
| 16 | are common use Mains that serve residential customers or |
| 17 | commercial customers or a variety of customers; correct? |
| 18 | A. Yeah. And that was accounted for in the study. |
| 19 | Q. But they are not used for the sole purpose of |
| 20 | serving special contract customers; correct? |
| 21 | A. Only a portion of the Mains were in the special |
| 22 | study direct assigned to the special contract facilities |
| 23 | based on the design day, peak usage of that portion of |
| 24 | Mains for the special contracts load. |

Q. Would it be correct to say that the Mains

| | Jon Piliaris by Ms. Gafken |
|----|---|
| 1 | identified in the study are not wholly dedicated |
| 2 | facilities but rather the study allocated a portion of |
| 3 | these Mains to the special contract customer? |
| 4 | A. Yes. It would be a portion. Yeah. |
| 5 | Q. Thank you. |
| 6 | MS. GAFKEN: I don't have any further |
| 7 | questions for Mr. Taylor. I'll move on to Mr. Piliaris. |
| 8 | CROSS-EXAMINATION |
| 9 | BY MS. GAFKEN: |
| 10 | Q. Good afternoon, Mr. Piliaris. |
| 11 | A. Good afternoon, Ms. Gafken. |
| 12 | Q. Are you familiar with the issues list prepared |
| 13 | by the parties in this matter? |
| 14 | A. Generally speaking. |
| 15 | Q. I do want to refer to the one of the tabs in |
| 16 | the issues list. |
| 17 | I have a copy of the spreadsheets that are |
| 18 | included in the issues list. I don't think that needs |
| 19 | to be an exhibit. But if need be, we can pass those out |
| 20 | too. |
| 21 | So, generally speaking, for the electric and |
| 22 | national gas cost of service study and rate spread tab |
| 23 | of the issues list, the issues list generally shows the |
| 24 | parties' cost of survey study results and proposal rate |

spreads; is that correct?

Jon Piliaris by Ms. Gafken

A. It would be easier for me to confirm that if I had a copy of it in front of me.

Before me, I'm looking at a sheet that in the lower left corner states: "Gas cost of service and rate spread"; and the bottom right corner "page 1 of 2"; and at the top includes "line, gas, cost of service, parody ratios, PSE rebuttal" and on down the line.

Is this the correct sheet?

- Q. I think that is similar. I have some questions about the electric cost of service study and white spread.
- A. I only have gas in front of me.

MS. BARNETT: I'll point out that this is not again -- again, not an exhibit and is not in the record. So I would like to make that clear. I don't think the issues list states expressly that it's not in the record.

So I'm curious as to the extent we're going to be questioning Mr. Piliaris on the issues list.

JUDGE PEARSON: I'm wondering if you can ask your questions without the issues list.

MS. GAFKEN: We might be able to ask the questions without referring to the issues list.

There's a concept that I -- that I'd like to have explained. And I'm fairly certain that

| | Jon Piliaris by Ms. Gafken |
|----|---|
| 1 | Mr. Piliaris will be helpful in that regard, so |
| 2 | JUDGE PEARSON: Do you have a copy of it for |
| 3 | him? |
| 4 | MS. GAFKEN: I do have a copy of the issues |
| 5 | list. Or well, that tab, the electric cost of |
| 6 | service rates by tab that I can provide to him. |
| 7 | MS. BARNETT: Is that the entire tab? |
| 8 | MS. GAFKEN: No, it's just the the two |
| 9 | parts. The effective rate spread and applied rate |
| 10 | spread charts. |
| 11 | MS. BARNETT: If I can approach and provide |
| 12 | Mr. Piliaris the full tab, electronically, maybe that |
| 13 | will be easier. |
| 14 | THE COURT: That's fine. |
| 15 | BY MS. GAFKEN: |
| 16 | Q. For "rate spread" the issues list shows an |
| 17 | effective rate spread and applied rate spread; correct? |
| 18 | A. Yes. |
| 19 | Q. The effective rate spread is intended to show |
| 20 | each rate class I'm sorry, let me start that over |
| 21 | again. |
| 22 | The effective rate spread is intended to show |
| 23 | each rate class' increase as a percentage of the system |
| 24 | average percentage increase; correct? |
| 25 | A The way I'd interpret the effective rate spread |

| | Jon Piliaris by Ms. Gafken | | |
|----|---|--|--|
| 1 | is let me back up. | | |
| 2 | Normally, when a company does rate spreads, | | |
| 3 | traditionally, it performs that spread on base rates | | |
| 4 | only. And so that is what you see in the applied rate | | |
| 5 | spread, so that's why the numbers are generally very | | |
| 6 | round. | | |
| 7 | For example, for PSE rebuttal, you see | | |
| 8 | residential rate spread of a hundred percent, secondary | | |
| 9 | general service of a hundred percent and on down the | | |
| 10 | line. | | |
| 11 | The my interpretation of the effective rate | | |
| 12 | spread is that it not only incorporates the spread in | | |
| 13 | the applied rate spread of base rates, but it also | | |
| 14 | incorporates the changes to the other riders that would | | |
| 15 | be effected by the change in rate spread as a result of | | |
| 16 | this case. | | |
| 17 | So it incorporates probably more of a look from | | |
| 18 | a bill impact perspective rather than just solely on | | |
| 19 | base rates. | | |
| 20 | Q. Okay. Under the applied table, you mentioned | | |
| 21 | that's the table with the relatively rounder numbers. | | |
| 22 | If a rate class receives 100 percent allocation, | | |
| 23 | that does not mean that the rate class receives the | | |

A. That's correct.

24

25

system average increase; correct?

Jon Piliaris by Ms. Gafken

Q. The 100 percent simply means that the class is receiving an equal percentage increase of the remaining dollar increase after the increases to those classes receiving greater or less than a hundred percent as allocated; correct?

A. And as well as certain other classes that don't

A. And as well as certain other classes that don't actually receive an allocation, per se, but are more directly calculated. But, generally speaking, that's correct.

Q. I'd like to walk through an example, if I could.

Looking at your Exhibit JAP-6. If you could turn to page 8 of JAP-6. And the electronic version that's the page found in tab -- Exhibit JAP, dash, rate spread.

JUDGE PEARSON: Ms. Gafken, could I just interrupt you for one moment. We don't have the paper exhibit, so we would like to take a short recess.

MS. GAFKEN: I can also --

Do you have the electronic exhibit?

JUDGE PEARSON: I do. The Commissioners do

21 | not.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

22

23

24

25

MS. GAFKEN: Oh, okay. In that case --

THE COURT: We'll take a short recess.

MS. GAFKEN: -- I'll stop. Yeah.

THE COURT: Thank you.

BUELL REALTIME REPORTING, LLC 206.287.9066 | 800.846.6989

| | Jon Piliaris by Ms. Gafken |
|----|--|
| 1 | (A recess was taken from 2:00 p.m. to 2:03 p.m.) |
| 2 | THE COURT: We'll go back on the record and |
| 3 | proceed. |
| 4 | BY MS. GAFKEN: |
| 5 | Q. Mr. Piliaris, if you could please refer to |
| 6 | page 8 of Exhibit JAP-6, which presents your rate spread |
| 7 | summary. |
| 8 | A. I'm there. |
| 9 | Q. Column F, row 1, shows a proposed revenue |
| 10 | increase of 7.68 percent for the residential class; |
| 11 | correct? |
| 12 | A. Proposed revenue increase; correct. |
| 13 | Q. And PSE's proposed system-wide increase is 143 |
| 14 | million or a system-wide increase of 7.16 percent; |
| 15 | correct? |
| 16 | A. Correct. |
| 17 | Q. If we divide your residential 6.8 [verbatim] |
| 18 | percent increase by the overall system increase of 7.16, |
| 19 | we get 107.3 percent of the system average percent |
| 20 | increase; is that correct? Subject to check. |
| 21 | A. Subject to check. |
| 22 | Q. If you refer to the issues list, the effective |
| 23 | table rate spread table shows 107 107.3 percent |
| 24 | for the residential class; correct? The effective |
| 25 | table |

| Α | ^ | |
|---|----------|--|
| | Correct | |
| | いいしてい | |

Q. Now I would like to focus on the idea of applied rate spread.

Turning back to your Exhibit JAP-6 on page 8, column E at row 1, the residential class is listed at 100 percent; correct?

- A. Correct.
- Q. I know you provided an explanation earlier, but isn't that amount still applied to the \$143 million increase?

In other words, what does that 100 percent mean?

How is that 100 percent used to develop the 7.6 percent increase in column F?

A. I believe it's what you had -- I think it was you that described this earlier.

Once the -- the rate groups that have their -- either ones that already have explicitly calculated rates or get greater or less than the average increase, the remaining classes that have 100 percent essentially get the average of the remainder.

So it's somewhat of a complicated calculation to explain, but it's essentially a goal-seeking calculation; that it iterates on itself.

So that those that are getting an -- quote/unquote, a hundred percent of the average increase

| | Jon Piliaris by Ms. Gafken |
|----|--|
| 1 | are getting consistent increase amongst themselves. And |
| 2 | it's proportional, essentially. It preserves some |
| 3 | proportionality between those that are 75 percentage of |
| 4 | the average, 125 percent of the average, or the average. |
| 5 | Q. So the 100 percent, again, it's not 100 percent |
| 6 | of the system average, but it's 100 percent of what's |
| 7 | left over. |
| 8 | A. Essentially, yes. |
| 9 | Q. And just so I'm sure that we're clear that I |
| 10 | think I understand this. |
| 11 | The residential class under your proposal would |
| 12 | not receive 100 percent of the overall percentage |
| 13 | increase but rather a 107.3 percent of the overall |
| 14 | percentage increase; is that correct? |
| 15 | A. I believe that's what the this particular |
| 16 | analysis shows. |
| 17 | MS. GAFKEN: That is all of my very painful |
| 18 | cross. Thank you. |
| 19 | JUDGE PEARSON: Ms. Barnett, did you have |
| 20 | any redirect? |
| 21 | MS. BARNETT: No, Your Honor. |
| 22 | JUDGE PEARSON: And, Mr. Boehm, this is the |
| 23 | cross that you waived; is that correct? |
| 24 | MR. BOEHM: That's correct, Your Honor. |
| 25 | JUDGE PEARSON: Is there any questions? |

| | | Jon Piliaris by Mr. Roberson |
|----|-------------------|---|
| 1 | | Oh, staff has a few. That's right. Sorry. |
| 2 | | I promptly forgot what you told me, |
| 3 | Mr. F | Roberson. |
| 4 | | MR. ROBERSON: It was off the record. It |
| 5 | never happened. | |
| 6 | CROSS-EXAMINATION | |
| 7 | BY M | IR. ROBERSON: |
| 8 | Q. | Good afternoon, Mr. Piliaris. How are you? |
| 9 | A. | Good afternoon. |
| 10 | Q. | Does your binder of doom have your rebuttal |
| 11 | testi | mony? |
| 12 | A. | It does. |
| 13 | Q. | Could you turn to it? It is Exhibit JAP-18T. |
| 14 | A. | I'm there. |
| 15 | Q. | Page 18. I just have a few questions about the |
| 16 | conj | unctive demand pilot. |
| 17 | | I guess, initially, does PSE consider this as a |
| 18 | pilot | or a temporary offering? |
| 19 | A. | I would consider it a pilot with the the |
| 20 | inten | tion of making it permanent and perhaps also |
| 21 | expa | nding it. |
| 22 | Q. | Okay. So on lines 12 through 16, you note that |
| 23 | the p | pilot isn't readily susceptible to the concept of |
| 24 | inter | nal validity; correct? |
| 25 | Δ | I note the term "internal validity " I cannot |

| | Jon Piliaris by Mr. Roberson |
|----|--|
| 1 | claim with certainty that I fully understand how it was |
| 2 | intended to be used by staff. |
| 3 | My interpretation of the term "internal |
| 4 | validity" was in the context of applying some pricing |
| 5 | schedule to to broader groups of customers |
| 6 | particularly residential-type customers. |
| 7 | And the my recollection was that the |
| 8 | attention behind that statement was that if you're going |
| 9 | to apply it, it works well for many different customers |
| LO | within that group. And that was the way I was |
| L1 | interpreting the internal validity. |
| L2 | Q. On a more general level, I guess a definition of |
| L3 | internal validity is the strength of a correlation |
| | |
| L4 | between a cause and effect; right? |
| L5 | A. I'm not sure that I would necessarily |
| L6 | interpret I didn't interpret it that way. |
| L7 | Q. Okay. On lines 14 through 16, you seem to |
| L8 | indicate that customer-specific factors may prevent the |
| L9 | extrapolation of principles to other customers; correct? |
| 20 | A. Yes. Correct. |
| 21 | Q. As I understand a pilot, a pilot is a program |
| 22 | intended to measure whether or not to roll out a program |
| 23 | to a broader customer base; correct? |
| 24 | A. Not necessarily. |

Q. How do you use the term "pilot"?

| Jon Piliaris by Mr. Roberson |
|------------------------------|
|------------------------------|

| A. Well, my interpretation of pilot is it is a | | | | | |
|--|--|--|--|--|--|
| learning exercise. It can the pilot will ask many | | | | | |
| different questions. And one question may be that | | | | | |
| whether or not it could be applicable to more customers, | | | | | |
| maybe that it's only dedicated to a specific group of | | | | | |
| customers. | | | | | |

Just, is it working the way you intended it to work?

In which case you have an opportunity to gain some learnings and, perhaps, adjust the offering so that it more -- it works the way it was intended.

Q. Would you say that's not what you're intending with this pilot?

I understand your testimony in lines 14 through
16 as saying you are not going to be able to decide
whether or not to rule it out based on what happens with
these customers, because you can't extrapolate the data
from them?

- A. No, that wasn't the intent of that particular --
- Q. Could you explain what you meant then?
- A. The -- the context from this general area of my testimony was that staff offered many interesting and sometimes helpful suggestions in how to go about developing a pilot.

And the general point was not all of the various

| | Birud Jhaveri by Commissioner Balasbas |
|----|--|
| 1 | factors that were raised are applicable in every |
| 2 | situation or for every pilot. |
| 3 | And my interpretation of this internal validity, |
| 4 | I was making the point that I didn't think, at least the |
| 5 | way I understood that term to be used, didn't seem to be |
| 6 | as apropos for this particular pilot necessarily. |
| 7 | Q. Fair enough. That's all the questions I have. |
| 8 | Thank you. |
| 9 | JUDGE PEARSON: Thank you. Any redirect? |
| 10 | MS. BARNETT: No, Judge Pearson. |
| 11 | JUDGE PEARSON: Okay. Thank you. |
| 12 | So other questions from the bench for |
| 13 | Mr. Piliaris? |
| 14 | And I will say that there's no other parties |
| 15 | that have cross for him. So if you have questions, we |
| 16 | could ask him outside of recalling him later. |
| 17 | COMMISSIONER BALASBAS: All right. So this |
| 18 | question is for Mr. Jhaveri. |
| 19 | Good afternoon. Mr. Jhaveri. |
| 20 | MR. JHAVERI: Good afternoon. |
| 21 | COMMISSIONER BALASBAS: In your Exhibit |
| 22 | BBJ-6 in your testimony, that is a comparison table of |
| 23 | various parody ratios from different methods proposed in |
| 24 | the case both PSE's proposed as well as the current |
| 25 | method and some of the other parties' methods. |

| My question for you is if the Commission |
|--|
| were to not accept PSE's proposed method here in this |
| case, given other things with cost of service rulemaking |
| and other factors, would the company accept the current |
| 25 percent/75 percent allocation? |
| MR. JHAVERI: The short answer is "yes." |
| And the the reason the answer is "yes" is because in |
| 1 |

And the -- the reason the answer is "yes" is because in my rebuttal testimony, I also noted that there were -- there were other rulemakings that we're looking into changing the cost of service methodology that is currently being utilized, and it may be beneficial for us to hold the course steady until we have a better idea of where these new methodologies will take us in terms of calculation for cost of service.

COMMISSIONER BALASBAS: Thank you.

My next question for you relates to the incorporation of carbon prices in the P credit methodology.

MR. JHAVERI: Yes.

COMMISSIONER BALASBAS: And in the company's proposal you include the social cost of carbon rather than previous projected emissions costs from the 2017 general rate case; is that correct?

MR. JHAVERI: That is correct.

COMMISSIONER BALASBAS: Do you recall,

| Birud Jhaveri by Commissioner Balasbas |
|---|
| roughly, what the emissions cost numbers were used in |
| the 2017 general rate case? |
| MR. JHAVERI: Off the top of my head, I do |
| |

not recall. But I do understand that they were -- I do recall that they were far lower than what the social cost of carbon is -- is mandated to be going forward.

COMMISSIONER BALASBAS: Okay. You mentioned one of the reasons for incorporating the social cost of carbon in this case today is that it was legislatively mandated.

Could you explain, or do you have a specific reference to the statute that requires the use of social cost of carbon that would require its use here in cost of service study?

MR. JHAVERI: Yes. Give me just a second.

So I'm not sure if this is part of the record. It was submitted as a data request. It was -- it's part of the -- I believe this is part of the statutory language from the Senate Bill 5116.

Section 14 subsection (3)(a) states that "An electric utility shall consider the social cost of greenhouse gas emissions as determined by the Commission for investor-owned utilities pursuant to Section 15 of this Act, the department for consumer-owned utilities.

"When developing integrated resource plans

| Birud Jhaveri by Commissioner Balasbas | | | | | | |
|---|--|--|--|--|--|--|
| and clean energy action plans, an electric utility must | | | | | | |
| incorporate the social cost of greenhouse gas emissions | | | | | | |
| as a cost at or when evaluating and selecting | | | | | | |
| conservation policy programs and targets to developing | | | | | | |
| integrated resource plans and clean energy action | | | | | | |
| plans." | | | | | | |
| COMMISSIONER BALASBAS: Thank you. I'm | | | | | | |

COMMISSIONER BALASBAS: Thank you. I'm aware of that statutory reference.

Again, I would reiterate my question and say, in that language, where does it require that it was used to cure the cost of service study?

MR. JHAVERI: So the language itself does not necessarily point out that it needs to be used in a cost of service study.

What it does state is that it should be utilized when developing your integrated resource plans and clean energy action plans.

The P credit model utilizes numerous data point from the integrated recourse plan. Going forward, as the integrated resource plan is mandated to use the social cost of carbon, it would only make sense that as -- currently, at least in the 2017 GRC, I believe, there was a placeholder used for the social -- for the cost of carbon. It was an estimated cost. Now that we know what the known and required costs are, those costs

| | Jon Piliaris by Commissioner Rendahl |
|----|--|
| 1 | were just replaced by those. |
| 2 | JUDGE PEARSON: Thank you. |
| 3 | COMMISSIONER RENDAHL: So, Mr. Piliaris, I |
| 4 | have a question for you about the conjunctiva demand |
| 5 | pilot. Back to that topic. |
| 6 | So your initial testimony, JAP-1T, on |
| 7 | page 37, starting you say you have little |
| 8 | information I'm looking for the line number here. |
| 9 | On line 20. Let me just ask this question. |
| 10 | This is about the issue of recovering revenue losses, |
| 11 | potential revenue losses from this pilot. And you had |
| 12 | stated that you would wait to recover lost revenue until |
| 13 | the next rate case. Is that is that a correct |
| 14 | summary of your testimony? |
| 15 | MR. PILIARIS: Generally, I would say that |
| 16 | that determination has not yet been made. I think we |
| 17 | need to determine whether it's material or not before |
| 18 | going down that path. |
| 19 | So the only point in my testimony was that |
| 20 | we will revisit that issue later once we have a better |
| 21 | understanding if there really is a significant revenue |
| 22 | loss. |
| 23 | COMMISSIONER RENDAHL: So the plan is to |
| 24 | track, as this pilot goes along, to see what that |
| 25 | revenue loss looks like. |

| Jon Piliaris by Commissioner Rendah |
|-------------------------------------|
|-------------------------------------|

MR. PILIARIS: And that's actually a fundamental piece of the pilot itself in its evaluation.

I know elsewhere in my testimony that that's actually -- one of the criteria of whether or not the pilot is successful, is that whether or not customers are achieving any bill savings as a result of the pilot.

COMMISSIONER RENDAHL: So if the program is successful and the company -- or the customers that are taking part in the pilot do save money, if that results in not recovering revenue from those customers that otherwise would have been recovered, and that would result in those schedules under-collecting their allocated share of revenue requirement; correct?

MR. PILIARIS: Yes, that's correct.

COMMISSIONER RENDAHL: So as a part of your evaluation of the pilot, would PSE commit to documenting the calculation of those lost revenues and assigning those to the participating schedules in a future rate case? Do you have a way to recover those costs?

MR. PILIARIS: Absolutely. I mean the point is, is that there's a certain amount of cost -- as the Commission knows, there's a certain amount of costs that are allocated to each schedule and then you design rates to recover that revenue.

And then if you were changing the way you're

| Jon Piliaris by Commissioner Rendahl |
|---|
| designing rates to recover revenue from that schedule |
| and if you have a pilot, for example, that reduces |
| revenue collection, then the rest should be recovered |
| from the remainder within that class of customers. |
| COMMISSIONER RENDAHL: Okay. And ther |

COMMISSIONER RENDAHL: Okay. And then in terms of the evaluation of the pilot. This is -- I think going to somewhat of the area that staff was discussing. If you go to your rebuttal testimony, JAP-18T, and look at page 11 through 19 where this is discussed.

You're responding to Staff's design and evaluation elements. Specifically on page 14, you're talking about Staff's design and evaluation of elements that provide useful guidance.

If -- if the Commission were to approve the pilot in this docket, are there any specific design in evaluation elements that can be applied in the evaluation report, or is that something you would like the Commission to direct, or is that something you would like the company to determine on its own?

MR. PILIARIS: In a perfect world, it would probably be somewhere in between. The Company would likely have some ideas, but if the Commission has things that it specifically would like to be examined, the Company would very much appreciate knowing that so that

| | Jon Piliaris by Chairman Danner |
|----|--|
| 1 | it can provide an evaluation that is a value to the |
| 2 | Commission. |
| 3 | COMMISSIONER RENDAHL: Thank you. |
| 4 | CHAIRMAN DANNER: Are we calling |
| 5 | Mr. Piliaris back? |
| 6 | JUDGE PEARSON: It's up to you. |
| 7 | CHAIRMAN DANNER: Well, I have a question |
| 8 | for you regarding your on-bill repayment. |
| 9 | So, Mr. Piliaris, Northwest Energy Coalition |
| LO | recommends the Commission to direct the company to |
| L1 | design and develop an on-bill repayment program. |
| L2 | And in their testimony Ms. Gerlitz says that |
| L3 | they recommend PSE design and implement an on-bill |
| L4 | repayment program by December 31st, 2020. |
| L5 | If the Commission were to direct Puget to |
| L6 | design and implement such a program, is that date a |
| L7 | feasible timeline for such an effort? And if not, what |
| L8 | kind of timeline do you think would be reasonable? |
| L9 | MR. PILIARIS: As I noted in my testimony, |
| 20 | if the Commission were to direct the Company to pursue |
| 21 | such a program, I think it would be helpful to |
| 22 | incorporate the the advice and suggestions of the |
| 23 | "CRAG" as they would be knowledgeable and directly |
| 24 | impacted by the program. |
| 25 | As the Commission is aware, that might take |

| | Jon Pi | iliaris b | y Chai | rman | Dann | er |
|------|---------|-----------|--------|------|------|----|
| some | e time. | | | | | |

And as I noted in my testimony, there's going to need to be a fair amount of IT and process development based on whatever is ultimately decided.

So I think it would be aggressive to -- to assume that we could get -- with all of that to gain meaningful stakeholder input and have enough time to actually implement the program by the end of the year; that might be an aggressive schedule.

So the Company has laid out a year -- one-year schedule as a -- as a reasonable timeline.

CHAIRMAN DANNER: So December 31st of 2020 this year is -- you see that as too aggressive, but a couple months later is okay.

MR. PILIARIS: It could be done. But I think what would end up happening is that we would likely need to -- the -- I think the stakeholder input would suffer as a result of that to allow enough time for implementation.

CHAIRMAN DANNER: So another timeline we had, though, Staff, in their cross-answering testimony suggested that we -- that you have an alternative proposal just for the Commission to -- to study the cost effectiveness of the program.

And they recommend a brief report of the

| | Jon Piliaris by Chairman Danner | | |
|----|--|--|--|
| 1 | program within three months of the effected date of the | | |
| 2 | final order in this case. Is that enough time? | | |
| 3 | MR. PILIARIS: Just to make sure I heard you | | |
| 4 | correctly. The three months was to evaluate, | | |
| 5 | essentially, the cost and benefits of pursuing that | | |
| 6 | program not actually implementing? | | |
| 7 | CHAIRMAN DANNER: That's right. It's | | |
| 8 | four as I understand the Staff's report, their | | |
| 9 | recommendation is that the company provide a brief | | |
| 10 | report of the program within three months of the | | |
| 11 | effective date of the final order. | | |
| 12 | So if we were to do that, my question to you | | |
| 13 | is would that be sufficient time? And if not, what kind | | |
| 14 | of timeline would you prefer or suggest? | | |
| 15 | MR. PILIARIS: Again, I think three months. | | |
| 16 | As I think the Commission can appreciate | | |
| 17 | with anything that's going on getting on anybody's | | |
| 18 | calendar within a three-month time frame can be somewhat | | |
| 19 | challenging with everything that's going on. | | |
| 20 | I would respectfully submit that maybe | | |
| 21 | six months might be a safer timeline to allow, again, | | |
| 22 | meaningful input and a time for the analysis to actually | | |
| 23 | occur. | | |
| 24 | CHAIRMAN DANNER: Okay. Those are my | | |
| 25 | questions. Thank you. | | |

| 1 | JUDGE PEARSON: So you are all excused. |
|----|---|
| 2 | Thank you very much. |
| 3 | And at this time we'll assemble the IT |
| 4 | investment panel, which is PSE witnesses Jacobs, Free, |
| 5 | Wappler, Koch, and Hopkins. |
| 6 | MR. PEPPLE: Judge Pearson, just a quick |
| 7 | procedural issue while the panel is gone. |
| 8 | I was wondering if it would be possible to |
| 9 | collect the work paper that Ms. Gafken handed around. I |
| 10 | believe there may be some confidential information in |
| 11 | there, and it would be appropriate to |
| 12 | JUDGE PEARSON: Okay. Sure. Thank you. |
| 13 | MS. CARSON: Judge Pearson? |
| 14 | JUDGE PEARSON: Yes. |
| 15 | MS. CARSON: We were wondering if Mr. Rábago |
| 16 | could be excused or is excused. |
| 17 | JUDGE PEARSON: Yes, that's fine. |
| 18 | MS. CARSON: Thank you very much. |
| 19 | JUDGE PEARSON: Okay. So will you all |
| 20 | please stand and raise your right hand. I'll swear you |
| 21 | in. |
| 22 | (Panel sworn) |
| 23 | JUDGE PEARSON: Okay. Please be seated. |
| 24 | So, Ms. Carson, if you would like sorry, |
| 25 | is it going to be Mr. Steele? Okay. |
| | |

| 1 | If you could introduce the witnesses please. |
|----|--|
| 2 | MR. STEELE: In the very front we've got |
| 3 | Margaret Hopkins, Joshua Jacobs, Susan Free, Cathy Koch, |
| 4 | and Andrew Wappler. |
| 5 | JUDGE PEARSON: Okay. Thank you. |
| 6 | So Public Counsel has indicated |
| 7 | cross-examination for Jacobs and Koch. |
| 8 | So, Ms. Gafken, would you like to ask those |
| 9 | questions now or would you like to cross-examine them |
| 10 | individually later? |
| 11 | MS. GAFKEN: So we can ask those questions |
| 12 | now. |
| 13 | Ms. Paisner will ask the questions for |
| 14 | Ms. Koch, and then I will ask the questions for |
| 15 | Mr. Jacobs. |
| 16 | JUDGE PEARSON: Okay. So before we do that, |
| 17 | Staff, I have the same question for you with respect to |
| 18 | Ms. Free. |
| 19 | MS. ROBERSON: I can ask Ms. Free my |
| 20 | questions now if you'd prefer. |
| 21 | JUDGE PEARSON: Okay. And then Mr. Pepple, |
| 22 | same for you? Mr. Coleman? |
| 23 | MR. COLEMAN: Your Honor, I think I'm able |
| 24 | to waive my cross of Ms. Hopkins. |
| 25 | JUDGE PEARSON: Waive. Okay. |
| | |

| | Cathy Koch by Ms. Paisner | | | |
|----|---|--|--|--|
| 1 | So then | | | |
| 2 | MR. PEPPLE: I did have question for | | | |
| 3 | Ms. Free. I'm happy to ask those during the panel. | | | |
| 4 | JUDGE PEARSON: Okay. That sounds good. | | | |
| 5 | Thank you. | | | |
| 6 | Ms. Paisner, whenever you're ready. | | | |
| 7 | CROSS-EXAMINATION | | | |
| 8 | BY MS. PAISNER: | | | |
| 9 | Q. This is Ann Paisner on behalf of Public Counsel. | | | |
| 10 | Good afternoon, Ms. Koch. | | | |
| 11 | A. Good afternoon. | | | |
| 12 | Q. Do you have a copy of your rebuttal testimony | | | |
| 13 | which is PSE Exhibit CAK-6TR? | | | |
| 14 | A. Yes. Just a sec. | | | |
| 15 | Q. Just to clarify while I may ask questions that | | | |
| 16 | relate to confidential information some of the | | | |
| 17 | cross-exhibits. | | | |
| 18 | My questions will not disclose any confidential | | | |
| 19 | information and should not require you to discuss it. | | | |
| 20 | A. I will try not to as well. | | | |
| 21 | Q. Okay. Do you have a copy of PSE Exhibit CAK-4 | | | |
| 22 | at page 1? | | | |
| 23 | A. Exhibit CAK-4, which is. Okay. That's my | | | |
| 24 | direct testimony. Correct. Yes. | | | |
| 25 | Q. On page 1 you discuss PSE advance metering | | | |

| | Docker. | 100. 02 100020 and 00 100000 (Contonidated) 101. 11 | 2/0/202 |
|----|---------|---|---------|
| | | Cathy Koch by Ms. Paisner | |
| 1 | infra | structure project which began in 2016; correct? | |
| 2 | A. | Yes. | |
| 3 | Q. | You discuss how 2016 was the year in which | |
| 4 | insta | Illation of the AMI network began. | |
| 5 | A. | Yes. | |
| 6 | Q. | But 2018 is the year in which installation of | |
| 7 | new | AMI meters and gas modules began; is that correct? | |
| 8 | A. | Yes. | |
| 9 | Q. | On line 12, same page, you state that full | |
| 10 | depl | oyment of the AMI network and electric meters and | |
| 11 | gası | modules will be completed in 2022 to 2023; is that | |
| 12 | corre | ect? | |
| 13 | A. | Yes. | |
| 14 | Q. | Please turn now to your rebuttal testimony, | |
| 15 | whic | h on page 4, beginning on line 6. | |
| 16 | A. | Is this Exhibit CAK-60? | |
| 17 | Q. | It is. | |
| 18 | A. | Page 6. | |
| 19 | Q. | Page 4, line 6, please. | |

- 20 A. Page 4, line 6.
- Q. This is where you describe obsolescence of AMR as PSE's primary reason for its decision to transition to advance metering infrastructure or AMI.
- A. Yes, that I addressed the obsolescence of AMR being the driver for changing.

- Q. In the second bullet item on that page at line 15 you describe PSE's inability to obtain new electric replacement equipment as they have been discontinued; is that correct?
 - A. Yes, I talk about that.
- Q. Please turn now to cross Exhibit CAK-8X. This is your response to Public Counsel data request 256.
- A. Okay.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

- Q. In this data request you were asked to provide documentation regarding the types of AMR electric equipment that had been discontinued.
- A. Yes. The question was around the electric meter equipment, yes.
- Q. Attachment A of this exhibit states that a window of time in which to purchase the Series 4 communication technology modules associated with equipment item focus AXS4 was open through December 1st, 2019; is that correct?
 - A. Yes.
- Q. This attachment states that Landis+Gyr would continue to provide support for the Series 4 endpoints as of the date of the document; is that correct?
- 23 A. Yes.
- Q. And the date listed at the bottom of this document is May 29th, 2019; is that the date of this

Cathy Koch by Ms. Paisner

| | comity record by more amore. | | |
|---|--------------------------------------|--|--|
| 1 | document? | | |
| 2 | A. That's the date of this document. | | |

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

19

20

21

22

23

24

25

And just to be clear, this is a final notice

from Landis+Gyr on the sale of that product.

Q. Okay. Thank you.

Please turn to Attachment B of this exhibit, please.

This attachment states that Landis+Gyr would no longer be producing new Focus AL one-way endpoints beyond January 18, 2019; is that correct?

- A. Yes, that's what it says.
- Q. And this attachment also states that Landis+Gyr will work on a customized plan to support maintenance and growth operations for each customer; yes?
- A. (Nods head).
 - Q. Similarly, for this document, the date printed at the bottom is February 14, 2019.

18 Is that the date of this document?

- A. Yes.
- Q. Please turn to Attachment C of -- of the same document.

This attachment states: "A last-time-to-buy opportunity for 4,000 units of the Focus AX USC product expiring on December 1st, 2019; correct?

A. Mm-hmm.

- Q. This attachment states that Landis+Gyr will 2 continue to offer field support for units. And at the 3 bottom, September 6th, 2019, is the date of this 4 document: correct?
 - A. Yes.

5

6

7

9

10

11

13

15

- Q. So, lastly, please turn to Attachment E, same document.
- 8 A. Okay.
 - Q. This attachment announces a last time to buy window for Series 4KV 2C communications modules expiring on March 31st, 2020; is that correct?
- 12 A. Yes, that's --
 - Q. And the date --
- 14 A. -- of this notice.
 - Q. Right. And the date at the bottom of this announcement is stated as January 6, 2020?
- A. Yes. 17
- 18 Q. So all these expiration dates, January 2019,
- 19 December 2019, and March of 2020 are after 2018 which is
- 20 the year in which you began to replace the AMR equipment
- 21 with AMI?
- 22 A. Yes. These are the ones that you chose because
- 23 there's a couple other attachments there that have dates
- 24 prior to that, as well as there's -- this is just
- 25 relative to electric meters.

| | Cathy Koch by Ms. Paisner | | | |
|----|--|--|--|--|
| 1 | And so we have a network and a gas system as | | | |
| 2 | well with this continued equipment. | | | |
| 3 | Q. Okay. Thank you. | | | |
| 4 | Now, going back to page 13 of PSE Exhibit CAK-4. | | | |
| 5 | A. Page 14 okay. Page 13, CAK-4. | | | |
| 6 | Q. I apologize, that's page 1, line I | | | |
| 7 | apologize. Page | | | |
| 8 | A. CAK? | | | |
| 9 | Q. Page 2 of CAK-4. I apologize. | | | |
| 10 | A. This is going to get complicated. | | | |
| 11 | Q. Where you state that the total present value | | | |
| 12 | revenue requirement of the AMI project is \$258 million. | | | |
| 13 | A. Yes. | | | |
| 14 | Q. So and that's a portion of the entire project | | | |
| 15 | which was estimated to be 668 million over a | | | |
| 16 | 20-year-life of the AMI asset? | | | |
| 17 | A. No. The project is estimated at 473 million. | | | |
| 18 | The benefits are 668 million. | | | |
| 19 | Q. Okay. Thank you. | | | |
| 20 | So now please turn to cross Exhibit CAK-9X. | | | |
| 21 | This is your Public Counsel data request 257. | | | |
| 22 | COMMISSIONER BALASBAS: I'm sorry, could I have | | | |
| 23 | that site again? | | | |
| 24 | MS. PAISNER: Cross Exhibit CAK-9X. | | | |
| 25 | COMMISSIONER BALASBAS: Thank you. | | | |

| | Cathy Koch by Ms. Paisner | | | |
|----|---|--|--|--|
| 1 | THE WITNESS: CAK-9. This is 257. | | | |
| 2 | BY MS. GAFKEN: | | | |
| 3 | Q. Yes. This data request refers to your rebuttal | | | |
| 4 | testimony page 4, line 19, where you characterize the | | | |
| 5 | AMR obsolescence by describing PSE's need to perform | | | |
| 6 | reprogramming of devices because different network | | | |
| 7 | equipment must be installed. | | | |
| 8 | You discuss how in 2017, which you describe is | | | |
| 9 | the last full year before AMI meters, gas modules, are | | | |
| 10 | installed, there were a total of 139 AMR devices that | | | |
| 11 | were reprogrammed; is that correct? | | | |
| 12 | A. Yeah, that was responsive to the question. | | | |
| 13 | Q. Right. | | | |
| 14 | And you explain here that the total cost for | | | |
| 15 | that reprogramming for all of 2017 was \$139,000; is that | | | |
| 16 | correct? | | | |
| 17 | A. That's what the response says. | | | |
| 18 | Q. Okay. So please turn to PSE Exhibit CAK-4 at | | | |
| 19 | page 4. Starting at line 13. | | | |
| 20 | A. CAK-4. Page | | | |
| 21 | Q 4, line 13. | | | |
| 22 | Is it true that in the 2013 analysis discussed | | | |
| 23 | here, PSE discovered that the AMR electric meters were | | | |
| 24 | failing at a rate of 1.6 percent per year? | | | |
| 25 | A. Yes. The response goes on to talk about what | | | |

| | Cathy Koch by Ms. Paisner |
|----|---|
| 1 | was going on with the gas AMR batteries and modules as |
| 2 | well as both residential and commercial as well as the |
| 3 | failure rates of the network, so |
| 4 | Q. Right. |
| 5 | In that same spot, I believe you discuss that |
| 6 | the AMR network equipment was failing at 4 percent; is |
| 7 | that correct? |
| 8 | A. Yes. |
| 9 | Q. And going on to page 5 you discuss how |
| LO | commercial gas modules were failing at 11 percent per |
| L1 | year; correct? |
| L2 | A. Yes. |
| L3 | Q. And then for all gas modules the failure rate |
| L4 | was four times 0.5. |
| L5 | So was that 2 percent for all gas modules; is |
| L6 | that correct? |
| L7 | A. Yes. It looks like it is closer to 2.6. I |
| L8 | think if you if you refer to the business case, which |
| L9 | is Appendix A of that. It defines that a bit more and |
| 20 | it talks about potentially as high as 20 percent. |
| 21 | Q. Okay. Now, please turn to cross Exhibit |
| 22 | CAK-10X. This is your response to Public Counsel data |
| 23 | request 261. |
| 24 | This data request refers to your rebuttal |
| 25 | testimony at pages 5 to 6 at the bottom of page 5 where |

| Cathy | Koch | by Ms. | Paisner |
|-------|------|--------|----------------|
|-------|------|--------|----------------|

| you state that because the AMR network is failing and |
|---|
| deficient it requires 50- to 60,000 meters to be |
| manually read monthly, which is an additional monthly |
| expense that would not be required for a properly |
| functioning system. |

- A. Yeah. The 50- to 60,000 was a historical average of what PSE had experienced in the past.
- Q. Okay. And you also state in the last paragraph of your response in this document that PSE would have paid the same to Landis+Gyr whether they provided an automated read or a manual read; is that correct?
- A. That's what it says, but I think I need to explain it a bit as well.

So I think the question was -- let me go back.

Confirm the cost of this. And at the time of the business case, that was prior to 2016, Landis+Gyr owned all the equipment, managed the system for us.

So Landis+Gyr was obligated to provide appropriate adequate reads irrespective of whether it came through digital or whether it came through manual. It was their system. They managed it.

After 2016, as we moved through contract negotiations, PSE, in the business case and the testimony talks about this, PSE took ownership of that equipment after that time; therefore, the manual meter

| | Cathy Koch by Ms. Paisner |
|----|--|
| 1 | reading would have cost more if PSE wasn't performing |
| 2 | maintenance obligation. |
| 3 | Therefore, for example, not repairing things |
| 4 | timely; not taking care of their system. And so those |
| 5 | costs are different than what was experienced prior to |
| 6 | 2016 where it was kind of agnostic from a cost |
| 7 | standpoint. |
| 8 | Q. Okay. You also explain in this document that |
| 9 | the manual meter reads were not accounted for in the |
| LO | benefit represented by the \$230 million of avoided AMR |
| L1 | investment that were discussed here? |
| L2 | A. Yes, because for the reasons I cited prior to |
| L3 | Landis+Gyr owned it. |
| L4 | Q. Now, please turn to cross Exhibit CAK-11XC. And |
| L5 | this also to my questions will also relate to |
| L6 | CAK-13X. Both are cross-exhibits. |
| L7 | A. Is this 265? |
| L8 | Q. Yes, 265 and 269 respectively. And again, my |
| L9 | question will not state any confidential information |
| 20 | here. |
| 21 | In this exhibit you discuss net book value of |
| 22 | AMR assets for years 2019 through 2023; is that correct? |
| 23 | A. Yes. |
| 24 | Q. Are any of these AMR assets for each of the |

years shown still in use by customers?

| | | Cathy Koch by Ms. Paisner |
|--|------------------------------|--|
| 1 | A. | Are any of the assets in |
| 2 | Q. | Represented by those values. |
| 3 | A. | Well, this is forward-looking. So today, yes, |
| 4 | they | are. |
| 5 | Q. | In those years will they be in use? |
| 6 | A. | Well, this is 2023 is when we are completed |
| 7 | with o | our AMI transition. And so all AMR assets will be |
| 8 | retire | d. |
| 9 | Q. | So those values at least for 2023 represent |
| 10 | asse | ts that are not in use; is that correct? |
| 11 | A. | Correct. No AMR will be in use after we |
| 12 | comp | lete our transition. |
| | | |
| 13 | Q. | Okay. Is the net book value of these assets as |
| | | Okay. Is the net book value of these assets as on in this exhibit still in rates now? |
| 13 14 15 | show | • |
| 14 | show A. | n in this exhibit still in rates now? |
| 14 15 | show A. witne | vn in this exhibit still in rates now? I'm per this response is with my |
| 14 15 16 | show A. witne | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I |
| 14 15 16 17 | show A. witne would | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I d like to get a better answer. |
| 14 15 16 17 | show A. witne would | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I d like to get a better answer. MS. FREE: I'm happy to answer that |
| 14 15 16 17 18 | show A. witne would | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I d like to get a better answer. MS. FREE: I'm happy to answer that tion, if that's okay. |
| 14 15 16 17 18 | show A. witne would | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I d like to get a better answer. MS. FREE: I'm happy to answer that tion, if that's okay. JUDGE PEARSON: Sure. MS. FREE: Can you repeat the question |
| 14 15 16 17 18 19 20 | A. witne would | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I d like to get a better answer. MS. FREE: I'm happy to answer that tion, if that's okay. JUDGE PEARSON: Sure. MS. FREE: Can you repeat the question |
| 14 15 16 17 18 19 20 21 | A. witne would quest | I'm per this response is with my ss/partner Susan Free, so as it relates to rates, I delike to get a better answer. MS. FREE: I'm happy to answer that tion, if that's okay. JUDGE PEARSON: Sure. MS. FREE: Can you repeat the question ally? |

| Ducket 1405. OE-190329 and OG-190330 (Consolidated) - Vol. 1V | 2/0/20 |
|---|--------|
| Susan Free by Ms. Paisner | |
| are referenced in this exhibit, is the net book value of | |
| these assets still rates now? | |
| A. Yes. The net book value as of December 31, | |
| 2018, is is still in the rate case, yes. | |
| Q. Is it still in rates going forward? | |
| A. Yes. As long as they are used and useful, they | |
| will be in rates. | |
| And at the point that they reach the end of the | |
| rollout period and there's still net book value left, at | |
| that point we will be asking for a regulatory asset | |
| treatment. | |
| Q. Is PSE requesting to collect carrying charges on | |
| removed AMR assets in rates including return on? | |
| A. The we anticipate that the assets as they are | |
| in use will stay in rate base, which would earn a | |
| return. And that the regulatory asset we will be | |
| requesting also be in rate base, which will earn a rate | |
| of return. | |
| Q. Okay. And these carrying charges are associated | |
| with the removed assets that would not be in serve going | J |
| forward. | |
| A. Yes. This is similar to treatment we've had on | |
| | |

A. Yes. This is similar to treatment we've had on other regulatory assets where a plant has been removed from service before the depreciation life has been fully recovered.

Page: 294

| | Susan Free and Ms. Koch by Ms. Paisner |
|----|--|
| 1 | Q. Okay. Thank you. |
| 2 | How long were the value of those AMR assets |
| 3 | still be in rates that the customers will pay? You may |
| 4 | have answered that. |
| 5 | A. That would be dealt with when the regulatory |
| 6 | asset is requested. So regulatory assets can be |
| 7 | recovered over it doesn't have to be a set life; it |
| 8 | can be determined at the time of the request. |
| 9 | CROSS-EXAMINATION |
| 10 | BY MS. PAISNER |
| 11 | Q. Okay. These the AMR assets removed, as of |
| 12 | today and also going forward, were or will any of these |
| 13 | assets be still functional when they are removed? |
| 14 | A. Well, I think the bulk of them might not be, |
| 15 | because the system's failing. So there's likely some |
| 16 | that would still be providing an automated read. |
| 17 | But due to the need to transition in an |
| 18 | appropriate time and prevent more failure from impacting |
| 19 | customers, some likely will be. |
| 20 | Q. Okay. Now, please turn to cross Exhibit |
| 21 | CAK-12X. This is your response to Public Counsel data |
| 22 | request 267. |
| 23 | A. Okay. |
| 24 | Q. In this exhibit, you discuss how PSE was limited |
| 25 | in terms of equipment choices in that other |

| | Ms. Koch by Ms. Paisner |
|----|--|
| 1 | manufacturers' equipment was incompatible with the AMR |
| 2 | system; is that correct? |
| 3 | A. Mm-hmm. |
| 4 | Q. You explain on the second page that considering |
| 5 | other options that were not compatible would have |
| 6 | required replacement of the L+G communication equipment |
| 7 | and system; is that correct? |
| 8 | A. Yes. |
| 9 | Q. Is it true that not considering those other |
| 10 | incompatible options gave PSE the ability to do a less |
| 11 | extensive transition than it would otherwise have to do |
| 12 | if it had used other manufacturers' equipment? |
| 13 | A. Can you restate the question? |
| 14 | Q. Sure. |
| 15 | Not considering those other incompatible |
| 16 | options, is it true that this gave PSE the ability to do |
| 17 | a less extensive transition replacement of the AMR, less |
| 18 | extensive? |
| 19 | A. By going to AMI? |
| 20 | Q. By avoiding other incompatible manufacturers' |
| 21 | equipment? Other manufacturers' incompatible equipment. |
| 22 | MR. STEELE: I'm going to object to this |
| 23 | line. I think counsel is misstating Ms. Koch's |
| 24 | testimony here. I'm not sure she ever stated that |

JUDGE PEARSON: Ms. Paisner, can you point

| | Ms. Koch by Ms. Paisner |
|----|---|
| 1 | to where that is in her testimony? |
| 2 | MS. GAFKEN: Sure. This is in Exhibit |
| 3 | CAK-12X, on the second page. Ms. Koch discusses that |
| 4 | PSE would need to replace the L+G communication |
| 5 | equipment system with regard to if they were to |
| 6 | consider solutions that were not compatible with the |
| 7 | current AMR system. |
| 8 | And so my questioning was designed to |
| 9 | clarify that. |
| 10 | MS. KOCH: So because the I don't know |
| 11 | that I understand your question the way it was phrased, |
| 12 | in all honesty. |
| 13 | But what this is trying to say is PSE's |
| 14 | existing system, which dates back to 1998, is a |
| 15 | proprietary system from Landis+Gyr and it is not |
| 16 | compatible with anybody else's system, which is what is |
| 17 | posing concerns with it failing. |
| 18 | So given that it's not compatible, a |
| 19 | wholesale change must be made. The idea of replacing it |
| 20 | wholesale with another vender's AMR system or an AMI |
| 21 | system would be equivalent. |
| 22 | BY MS. PAISNER: |
| 23 | Q. Okay. Thank you. |
| 24 | Please turn to page 2 of cross Exhibit CAK-14X, |
| 25 | which is Public Counsel data request 270. Your |

Page: 297

| | Ms. I | Koch | by M | s. Pa | isnei |
|--------|-------|------|------|-------|-------|
| respon | se. | | | | |

A. 270?

Q. 270. In your response you provide a table preparing costs of the AMI system versus those of continuing of the AMR system. And on the fifth row you provide a benefits value of \$436 million for the AMI versus zero dollars for the AMR.

Does this \$436 million amount refer to conservation voltage reduction or CVR?

A. Yes. It's associated with conservation voltage reduction and the ability to implement distribution automation from a reliability standpoint using the AMI network.

Q. Okay. So is it true that looking at the table, the cost of the AMI system would be closer to the cost amount listed for continuing with the AMR if that value was not subtracted from a cost calculation listed in the table?

A. So in interpreting your question meaning is 473 closer to 378 off the table; is that what you are asking?

Q. It looks in the table as though that \$436 million was subtracted from the other costs due to the minus sign in front of it.

A. It is.

| Ms. Koch by Ms. Paisne |
|------------------------|
|------------------------|

So let me just explain what this table is just so we understand.

So this -- this is a very simple table. It is not a full analysis. But what it was attempting to do is demonstrate that the benefits that are achieved with AMI far outweigh, continue to outweigh, continuing with an AMR system.

And, specifically, in this case, this comparison has gross assumptions that we could continue an AMR system. And given what we know today and lack of supply, that's not realistic.

But it was really just intended to continue to -- to address what I perceived Mr. Alvarez was trying to get to in his questions around book value. But to continue to demonstrate that the benefits of getting to AMI are very sound.

- Q. Okay. Is it true that PSE's AMI deployment installs approximately 1,000 meter units per circuit?
 - A. Say that again.
- Q. Is it true that PSE's AMI system deployment would install approximately 1,000-meter units per circuit?
 - A. I think the numbers --
 - Q. You would have to check?
 - A. Yeah. I don't know. I think it's a higher

| | | Ms. Koch by Ms. Paisner |
|----|-------|---|
| 1 | numb | per than that. |
| 2 | Q. | Did PSE assume a percentage reduction in energy |
| 3 | use 1 | from CVR in its business case? |
| 4 | A. | We did. |
| 5 | Q. | And is it true that in the Mercer Island pilot a |
| 6 | simil | ar percentage was delivered with only 30 AMI meters |
| 7 | on 1 | 0 circuits? |
| 8 | A. | No. Actually, the business case estimates are |
| 9 | much | n higher than that. And they actually line up with |
| 10 | what | industry utilities are seeing. |
| 11 | | And they were based on more than just the Mercer |
| 12 | Islan | d pilot. They were based on four or five |
| 13 | addit | ional pilots that were performed. |
| 14 | Q. | Okay. Do you know what a line sensor is? |
| 15 | A. | Yes. |
| 16 | Q. | Is it true that a line sensor functions to |
| 17 | meas | sure and report voltage? |
| 18 | A. | It can be used that way. |
| 19 | Q. | So does PSE system use line sensors today? |
| 20 | A. | It has some. |
| 21 | Q. | Okay. Now, please turn to cross Exhibit CA |
| 22 | A. | Can I offer something, though, on that though? |
| 23 | Q. | Sure. |
| 24 | A. | I think the line of questioning I would like |
| 25 | to re | mind that we're not there is a benefit to what |

| | Ms. Koch by Ms. Paisner |
|----|--|
| 1 | we gain with the AMI installation relative to being able |
| 2 | to implement conservation voltage reduction. But that's |
| 3 | not the only that's not why we're doing it. |
| 4 | We're doing it so we can have a reliable |
| 5 | metering system that as a result of the fail the |
| 6 | failing system, which requires reliable, fully function |
| 7 | meters at every house. |
| 8 | Once that's achieved, you can continue to take |
| 9 | advantage of that. So I just want to make sure that |
| 10 | that's it's clearly understood. |
| 11 | Q. Please turn to cross Exhibit CAK-15X, which is |
| 12 | your response to Public Counsel data request 274. |
| 13 | A. Yes. |
| 14 | Q. Your DR response at Item V discusses how PSE is |
| 15 | not willing to commit to reductions in a revenue |
| 16 | requirement for benefits from AMI investment associated |
| 17 | with remote disconnect and reconnect, because as you |
| 18 | state certain benefits are not quantifiable at this |
| 19 | time. |
| 20 | A. Yeah, I think that the the full answer |
| | |

addresses the -- the issue that there's AMR rulemaking going on which may have influence on those benefits. And it's hard to know how to quantify those at that time and submit what that full benefit may be.

My partner, Josh Jacobs, who these benefits fall

21

22

23

24

| | Ms. Koch by Ms. Paisner |
|--|--|
| 1 | under relative to Get To Zero could offer, if necessary. |
| 2 | Q. I don't think that will be necessary. |
| 3 | A. Okay. |
| 4 | Q. Are reconnect and disconnect cost benefits |
| 5 | estimated in CAK-4, Attachment G? |
| 6 | A. The AMI business case, which is yes, does |
| 7 | provide a preliminary estimate of those. |
| 8 | In the business case, it fully acknowledges that |
| 9 | those evaluations need to continue that the potential is |
| 10 | there. Those evaluations need to continue as it relates |
| 11 | to Get To Zero. |
| 12 | Q. Okay. Are reconnect and disconnect sorry |
| | |
| 13 | move-ins and move-outs avoided cost benefits, are those |
| 13 14 | move-ins and move-outs avoided cost benefits, are those also estimated in the same attachment? |
| | |
| 14 | also estimated in the same attachment? |
| 14 15 | also estimated in the same attachment? A. There are you talking about the spreadsheet? |
| 14 15 16 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. |
| 14 15 16 17 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. A. Yes. The benefits are captured in the |
| 14 15 16 17 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. A. Yes. The benefits are captured in the spreadsheet. The calculation captures the benefits. |
| 14 15 16 17 18 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. A. Yes. The benefits are captured in the spreadsheet. The calculation captures the benefits. Q. Okay. Thank you. |
| 14 15 16 17 18 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. A. Yes. The benefits are captured in the spreadsheet. The calculation captures the benefits. Q. Okay. Thank you. Do you believe PSE should be responsible for |
| 14 15 16 17 18 19 20 21 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. A. Yes. The benefits are captured in the spreadsheet. The calculation captures the benefits. Q. Okay. Thank you. Do you believe PSE should be responsible for maximizing smart meter benefits? |
| 14 15 16 17 18 19 20 21 | also estimated in the same attachment? A. There are you talking about the spreadsheet? Q. Yes. A. Yes. The benefits are captured in the spreadsheet. The calculation captures the benefits. Q. Okay. Thank you. Do you believe PSE should be responsible for maximizing smart meter benefits? A. Absolutely. And I think what we're doing is |

| | Ms. Koch by Mr. Steele |
|----|---|
| 1 | MS PAISNER: Thank you. I don't have any |
| 2 | other questions. |
| 3 | JUDGE PEARSON: Thank you. |
| 4 | Is there anyone else have questions any |
| 5 | redirect? |
| 6 | MR. STEELE: Yes, Your Honor. |
| 7 | JUDGE PEARSON: Okay. |
| 8 | REDIRECT EXAMINATION |
| 9 | BY MR. STEELE: |
| LO | Q. Ms. Koch, a few moments ago Ms. Paisner asked |
| L1 | you questions about the discontinuance documents you |
| L2 | received from Landis+Gyr which were attached to PSE's |
| L3 | response Public Counsel data request 256. |
| L4 | A. Yes. |
| L5 | Q. And can you describe the process for how the |
| L6 | company receives a notice of discontinuance from |
| L7 | Landis+Gyr? |
| L8 | A. So Landis+Gyr has been PSE's partner for over a |
| L9 | decade and there's continual ongoing conversations with |
| 20 | them. PSE also attends their annual user group |
| 21 | meetings. And through those there are many |
| 22 | conversations around Landis+Gyr products and future |
| 23 | sunsetting. When Landis+Gyr finalizes that, they |
| 24 | publish the documents as a final notice. |
| 25 | But before that, PSE has lots of opportunities |

| | Ms. Koch by Mr. Steele | |
|----|--|--|
| 1 | to understand what the life of its products are. | |
| 2 | Q. So to be clear, does the company ever know that | |
| 3 | a discontinuance is coming before receiving a document | |
| 4 | like Attachments A, B, C, and E to to PSE's response | |
| 5 | to Public Counsel data request 256? | |
| 6 | A. Absolutely. Through many users groups, | |
| 7 | absolutely. | |
| 8 | Q. And is that what occurred in this case for the | |
| 9 | equipment identified in Attachments A, B, C, and E? | |
| 10 | A. Yes. | |
| 11 | Q. Did the Company know that discontinuance of the | |
| 12 | equipment identified in Attachments A, B, C, and E would | |
| 13 | occur in 2016 at the time of the AMI business case? | |
| 14 | A. Did I know that they would occur in 2016? | |
| 15 | Q. Did the Company know that discontinuance of the | |
| 16 | equipment identified in Attachments A, B, C, and E would | |
| 17 | occur at the time of the AMI business case? | |
| 18 | A. Yes. Yes. | |
| 19 | MR. STEELE: No further questions. | |
| 20 | JUDGE PEARSON: Okay. Thank you. | |
| 21 | And, Ms. Gafken, did you have questions for | |
| 22 | Mr. Jacobs? | |
| 23 | MS. GAFKEN: I do. Thank you. | |
| 24 | CROSS-EXAMINATION | |
| 25 | BY MS. GAFKEN: | |

| | | Joshua Jacobs by Ms. Gafken |
|----|--------|---|
| 1 | Q. | Good afternoon, Mr. Jacobs. |
| 2 | A. | Good afternoon. |
| 3 | Q. | Would you please turn to your rebuttal testimony |
| 4 | Exhib | it JJJ-11T. If you could go to page 24, line 17 |
| 5 | throu | gh 19. |
| 6 | | MR. STEELE: Could you state that once more |
| 7 | for me | 9? |
| 8 | | MS. GAFKEN: Yes, of course. Exhibit |
| 9 | JJJ-1 | 1T, page 24 line 17 through 19. |
| 10 | | MR. STEELE: Is that page 4? |
| 11 | | MS. GAFKEN: Twenty-four. |
| 12 | | MR. STEELE: Twenty-four, I'm sorry. |
| 13 | | MR. JACOBS: I'm there. |
| 14 | BY M | S. GAFKEN: |
| 15 | Q. | There you testify that PSE has invested in |
| 16 | 17.5 n | nillion in the Get To Zero program between July 1st |
| 17 | and N | lovember 30th, 2019; is that correct? |
| 18 | A. | That's correct. |
| 19 | Q. | And then on the following page, page 25. |
| 20 | Esser | ntially, the entire page lines 4 through 21 you |
| 21 | descr | ibe two projects; the energy assistance and meter |
| 22 | upgra | ide enhancements projects. |
| 23 | [| Did those two projects make up the entire |
| 24 | 17.5 n | nillion described on page 24? |
| 25 | A. | That's correct. |

| | Susan Free by Mr. Roberson |
|----|--|
| 1 | MS. GAFKEN: Thank you. I have no further |
| 2 | questions. |
| 3 | JUDGE PEARSON: Any redirect? |
| 4 | MR. STEELE: No, Your Honor. Thank you. |
| 5 | JUDGE PEARSON: Mr. Pepple? Or, I'm sorry, |
| 6 | Mr. Roberson, did you have questions of |
| 7 | CROSS-EXAMINATION |
| 8 | BY MR. ROBERSON: |
| 9 | Q. Good afternoon, Ms. Free. How are you? |
| 10 | A. I'm well, sir. How are you? |
| 11 | Q. Doing all right. |
| 12 | Do you have a copy of your rebuttal testimony? |
| 13 | A. I do. |
| 14 | Q. Which is SEF-17T. |
| 15 | A. Yes. |
| 16 | Q. I'm going to ask you some questions generally |
| 17 | about the 30s, if you want to turn there. |
| 18 | A. I thought you were asking if I was in my 30s, |
| 19 | which I am not. |
| 20 | Q. I would like to start on page 37 of your |
| 21 | testimony where you discuss the functionalization of |
| 22 | plant in terms of assigning a materiality threshold. |
| 23 | A. Yes. |
| 24 | Q. You state that that's a more appropriate way to |
| 25 | assign a threshold; correct? |

| | Docket Nos. UE-190529 and UG-190530 (Consolidated) - Vol. IV | 2/6/202 |
|----|--|---------|
| | Susan Free by Mr. Roberson | |
| 1 | A. Correct. | |
| 2 | Q. Are you aware that the Commission has rejected | |
| 3 | that method as ripe for abuse? | |
| 4 | A. I am not. | |
| 5 | Q. We'll move on then. | |
| 6 | Page 34 and 35 of your rebuttal testimony, you | |
| 7 | talk about changes to the method for Seth's method | |
| 8 | for setting a threshold for a common plant; correct? | |
| 9 | A. Yes. | |
| 10 | Q. And this is just for my clarification. | |
| 11 | The way you recommend doing it, the size of the | |
| 12 | net plant for gas will always drive the threshold; | |
| 13 | correct? | |
| 14 | A. I I don't necessarily think that that's true. | |
| 15 | I think it depends on the allocation factors that are | |
| 16 | used to allocate | |
| 17 | Q. Fair enough. | |
| 18 | Under the current allocation factors, it's | |
| 19 | always going to be the gas rate base, correct? | |
| 20 | A. In this example I've provided; that's right. | |
| 21 | Q. Do those allocation factors change on a regular | |
| 22 | basis? | |

A. They -- they are looked at once a year and they -- they are derived for every rate case. Q. Okay. How are the allocation factors derived?

23

24

| | Susan | Free | by | Mr. | Ro | bers | on |
|--|-------|------|----|-----|----|------|----|
|--|-------|------|----|-----|----|------|----|

| factor. They look at direct assigned plant. So labor allocators that are direct assigned, and I can't | A. This particular allocation factor that's used to |
|--|---|
| at that are blended together evenly to determine the factor. They look at direct assigned plant. So labor allocators that are direct assigned, and I can't | allocate plant is called the four factor allocator, and |
| factor. They look at direct assigned plant. So labor allocators that are direct assigned, and I can't | it contains four metrics that are used to determine |
| allocators that are direct assigned, and I can't | at that are blended together evenly to determine the |
| G | factor. They look at direct assigned plant. So labor |
| romamber them all off the top of my head | allocators that are direct assigned, and I can't |
| remember them all on the top of my head. | remember them all off the top of my head. |

- Q. Given the disparity between the size of PSE's electric and gas rate bases, I mean, can you imagine a situation where the allocator isn't going to be heavily weighted towards electric?
- A. I think -- I think historically the electric allocator is above 50 percent.
- Q. Okay. I would like to move on to Get To Zero, which I guess mostly I want to start with page 39 of your rebuttal testimony.

You testified the Get To Zero should be treated as a single adjustment; correct?

- A. I think for purposes of pro forma adjustments and deferrals, Get To Zero should be viewed as a program and should be treated together.
- Q. What is the difference between a program and a project?
 - A. I'm not a project manager, but --
 - Q. Are you a program manager?

I would say that the program is a collection of projects that when taken together you can derive benefits out of implementing them and managing them together as one program.

- Q. So a program consists of sub projects?
- A. Correct.
- Q. And in Get To Zero's case, those -- those projects are aimed at different things; correct?

Some of them are aimed at billing. Some of them are aimed at customer interface. Some at PSE's workflow, things like that. Correct?

- A. I'm not the witness to tell you about what the projects are. I would say at a high level they are aimed at transforming the customer experience and it is all customer-facing.
- Q. If one of them is PSE workflow or data analytics, how is that customer-facing?

That's probably not a fair question for you.

Never mind.

The Get To Zero projects that we're concerned with here, they started going into service in 2016, thereabouts?

A. I'm not -- that sounds correct. I don't know the exact.

| | Susan Free by Mr. Roberson |
|-------|---|
| Q. | And they are going to go into service for the |
| fores | seeable future of 2021-ish? |
| A. | Yes. |
| Q. | So they are going into service over a five-year |
| span | ? |
| ۸ | Correct I think that's a little different than |

A. Correct. I think that's a little different than you've seen in PSE's capital portfolio in the past, I think it used to be that we could -- a lot of our projects that we pro form into a rate case, with like a plant, would have one in-service date.

But the spending pattern is different now and these projects you can't hold them all up together until a certain point. They need to be deployed in a series so that they can leverage off of each other.

Q. Okay. So if they are hypothetically aimed at different things and they go into service over a five-year span of time, the only thing tying them together is the fact that PCE grouped them into the Get To Zero program; correct?

A. I think that -- again, I don't think I'm the witness to speak to that. But I do know that the Get To Zero program is driven by business needs. It's looked at in terms of an objective and it's not an indiscriminate combination of projects.

Q. Okay. Could PSE create a project and dump a

| | Susan Free by Mr. Roberson |
|----|---|
| 1 | bunch of indiscriminate stuff in there and then seek a |
| 2 | single pro forma adjustment like you did here? |
| 3 | A. I don't think PSE would do that. |
| 4 | Q. But it could be under the theory that your |
| 5 | espousing; right? |
| 6 | A. I don't think that I think, in the policy |
| 7 | statement that just came out, that I don't know a lot |
| 8 | about. But it does envision programmatic spending and |
| 9 | it envisions, you know, identification of that in the |
| 10 | beginning and look back on it after the spending |
| 11 | happens. And so I don't think there would be a lot of |
| 12 | opportunity for that kind of treatment. |
| 13 | Q. But the programmatic spending envisioned there |
| 14 | is something like it would pull a replacement project; |
| 15 | correct? Where PSE every year is replacing wood poles |
| 16 | as part of a single project. |
| 17 | A. That is the example that was given in the policy |
| 18 | statement. But I believe it was also indicated it would |
| 19 | be flexible as to what it would treat as a program. |
| 20 | Q. Okay. Well, just more generally, I guess I'm |
| 21 | looking for the limiting principle. |
| 22 | If PSE can amalgamate a bunch of projects, how |

is the Commission to decide whether or not it's properly one project or many projects?

A. I think it can be taken on a case-by-case basis.

23

24

| | Susan Free by Mr. Roberson |
|----|--|
| 1 | I don't think that PSE would ever bring so many programs |
| 2 | that it wouldn't be something that could be focused on |
| 3 | and decided. |
| 4 | Q. But it could? |
| 5 | A. I I don't think it would. |
| 6 | Q. Okay. In a similar vein, on page 33 and 39 of |
| 7 | your testimony, you seem to suggest that the Get To Zero |
| 8 | project should be incorporated in rates because |
| 9 | collectively they are material. |
| 10 | Is that a fair statement of your testimony? |
| 11 | A. Yes, it is. |
| 12 | Q. If the major plant standard is there to limit |
| 13 | the number of projects that parties have to consider |
| 14 | after the test year, doesn't kind of grouping them |
| 15 | together defeat the purpose of that standard? |
| 16 | A. I don't really I don't really see that |
| 17 | there's a hard standard. |
| 18 | So I think that that looking on a |
| 19 | programmatic basis is appropriate if it's material to |
| 20 | the company. |
| 21 | Q. There is a standard there; correct? A major |
| 22 | plant standard. |
| 23 | A. I don't I don't read the guidance that way. |
| 24 | I I read the guidance to say that there it's |
| 25 | specific to the cases that the order was was |

| | Susan Free by Mr. Pepple |
|----|--|
| 1 | provided. |
| 2 | Q. But the Commission over and over again has said |
| 3 | pro forma plant adjustments should meet some reasonable |
| 4 | definition of major; correct? |
| 5 | A. Yes. It's also said other things, like, if it's |
| 6 | material to the company and a certain impact to their |
| 7 | financials that it can be considered. |
| 8 | Q. Okay. So in PSE's view of the law, anything |
| 9 | that's material is subject for inclusion in rates of pro |
| 10 | forma adjustment? |
| 11 | A. I don't know if that's the only consideration. |
| 12 | I do in terms of what we put forth as pro forma |
| 13 | adjustments, I believe we followed Commission guidance. |
| 14 | MR. ROBERSON: Okay. I think I have no |
| 15 | further questions. Thank you. |
| 16 | JUDGE PEARSON: Okay. Any redirect? |
| 17 | MS. CARSON: No, Your Honor. |
| 18 | JUDGE PEARSON: Okay. And AWEC? |
| 19 | CROSS-EXAMINATION |
| 20 | BY MR. PEPPLE: |
| 21 | Q. Good afternoon, Ms. Free. |
| 22 | A. Good afternoon, Mr. Pepple. |
| 23 | Q. I had some questions for you about Colstrip. |
| 24 | Could you turn to your Exhibit SEF-29? |
| 25 | A. I'm there. |

Susan Free by Mr. Pepple 1 Q. And just for background on this exhibit, AWEC's 2 witness, Mr. Mullins, has proposed that the remaining 3 unrecovered investment at Colstrip Units 1 and 2 be 4 removed from rate base and offset with monetized 5 production tax credits. 6 Do you recall that? 7 A. I do. 8 Q. And this exhibit provides various scenarios if 9

- Q. And this exhibit provides various scenarios if the Commission decides to accept Mr. Mullins' proposal, or at least some variation of that proposal that you have described in your testimony.
- A. That's correct. I continue to believe that our proposal in the rate case is reasonable. But in the event that the Commission were to decide with Mr. Mullins, I've provided some corrections to what he had in his response testimonies and some alternative scenarios.
- Q. Okay. So just looking at page 1 of SEF-29, this page shows the revenue requirement impact if the Commission updated the Colstrip 1 and 2 plant balances to December 31, 2019, but did not offset any of their production tax credits. That's one scenario; correct?
- A. Yes. In that scenario, the need for -- the reason not to bring in the PTCs is because they are already accruing interest, which is the same impact --

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

| | Susan Free by Mr. Pepple |
|----|--|
| 1 | it has the same impact as including them in the rate |
| 2 | case. |
| 3 | Q. And do you do you, by any chance, have |
| 4 | Mr. Mullins' cross-answering exhibits? |
| 5 | A. Over there. |
| 6 | Q. I have some copies. I'm happy |
| 7 | I'm looking at Exhibit 13C. And I have copies |
| 8 | for others. |
| 9 | And this is a confidential exhibit, but I'm |
| 10 | going to keep my questions nonconfidential. |
| 11 | A. I do have it. Thank you. |
| 12 | Q. So in your rebuttal testimony you identified |
| 13 | several errors that Mr. Mullins made in his rebuttal |
| 14 | his response testimony in calculating the Colstrip plant |
| 15 | balances. |
| 16 | Do you recall that? |
| 17 | A. Yes. |
| 18 | Q. Okay. And so can you turn so this exhibit |
| 19 | updates Mr. Mullins' calculations |
| 20 | A. Yes. |
| 21 | Q after he was provided with certain |
| 22 | corrections and supplements that PSE provided. |
| 23 | So if you turn to page 1 of that exhibit. |
| 24 | CHAIRMAN DANNER: What exhibit are we |
| 25 | talking about? |

| Susan | Free | by Mr | Pe | pple |
|-------|------|---------|----|------|
| Cusun | | My IVII | | PPIC |

| MR | PEPPI F. | This is BGM-13C. | |
|---------|----------|------------------|--|
| IVII V. | | | |

BY MR. PEPPLE:

1

2

3

4

5

6

7

8

9

10

13

14

15

21

22

23

24

25

- Q. And if you look at the total rate base number there, 111,946,494, and then compare that to the total rate bus number that you have on line 28 of page 1 of SEF-29, those -- that's the same number; is that right?
- A. Correct.
 - Q. And then if you look at page 2 of BGM-13C, he shows a number for the unrecovered investment in Colstrip 1 and 2.
- Do you see that?
- 12 A. I do.
 - Q. And that number is not exactly the same number you have on line 35 of SEF-29, but it's pretty close.
 - Would you agree?

206.287.9066 | 800.846.6989

- 16 A. Yes.
- Q. Okay. So -- so now that we have updated information from PSE, the numbers for -- between AWEC and PSE are at least comparable.
- 20 A. lagree.
 - Q. So just focusing back on SEF-29. At the top of this page on line 5, you show what the overall revenue requirement -- requirement impact would be if the unrecovered investment in Colstrip 1 and 2 is updated to the end of 2019, which is approximately \$1.3 million

| Oocket Nos. UE-190529 and UG-190530 (Consolidated) - Vol. IV | 2 |
|--|---|
| Susan Free by Mr. Pepple | |
| reduction. Correct? | |
| A. Correct. | |
| Q. Okay. And then page 2 of this exhibit, this is | |
| a different scenario where again the Colstrip 1 and 2 | |
| plant balances are calculated as of the end of 2019, but | |
| now it's offset with PTCs that were monetized on PSE's | |
| 2018 tax return which was filed in September of 2019; | |
| correct? | |
| A. That's correct. | |
| Q. Okay. And this scenario has on line 18, it | |
| says, "Include ADF IT on monetized PTCs." And there's a | |
| number of about 17.3 million. | |

- Do you see that?
- A. I do.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

19

- Q. Can you just explain what that is? Why is there
- 16 **ADF IT on monetized PTCs?**
- 17 A. That would be a better question for
- 18 Mr. Marcelia.
 - Q. Okay. I will hold that question for him then.
- 20 Maybe one other follow-up question on this and 21 you can take it to Mr. Marcelia if you need to. But do 22 you know if that deferred tax asset, if PSE is holding 23 it in rate base?
- 24 A. I believe that it's either in working capital or
- 25 rate base. I'm not exactly sure.

- Susan Free by Mr. Pepple 1 Q. Okay. But PSE is earning a return on that tax 2 asset. Do you understand that? 3 A. I'm not -- I'm not sure. 4 Q. Is that something Mr. Marcelia would know? 5 A. No, it is not. 6 Q. Is that something any PSE witness would know? 7 A. This one should. 8 Q. Okay. Okay. That's fine. I can deal with 9 that. Okay. So -- so just going back to the top of 10 page 2 of SEF-29. 11 So the revenue requirement impact in this 12 scenario on line 1 has a \$7.8 million reduction. But 13 then that is offset by some pro forma adjustments that 14 you propose be included, if this scenario is accepted; 15 correct? 16 A. That's correct. 17 Q. What is the basis for including these additional 18 pro forma adjustments? 19 A. Because if you were to include the PTCs and --20 that weren't monetized on September tax return, that's 21 beyond the pro forma period for planned adjustments we
 - used in this case, as well as moving the rate base for the units out to a regulatory asset of December 2019 is also beyond the pro forma period.
 - And so there are other pro forma adjustments

23

24

| | Susan Free by Mr. Pepple | | | |
|----|---|--|--|--|
| 1 | within our case that if you updated those to September | | | |
| 2 | as well you would see the impacts that I show on this | | | |
| 3 | page. | | | |
| 4 | Q. So so I think it was it's your testimony | | | |
| 5 | that moving the Colstrip plant balances to December of | | | |
| 6 | 2019, is itself a pro forma adjustment? | | | |
| 7 | A. Yes. | | | |
| 8 | Q. So how come those pro forma adjustments aren't | | | |
| 9 | included on page 1 of SEF? | | | |
| LO | A. If they were, it would result in a revenue | | | |
| L1 | requirement increase. | | | |
| L2 | Q. Well, there's a revenue requirement increase on | | | |
| L3 | page 2 of SEF. | | | |
| L4 | A. Yes. So I think that I was tying the pro forma | | | |
| L5 | adjustments to the PTC treatment. | | | |
| L6 | Q. Okay. | | | |
| L7 | A. But I do believe it's appropriate that they | | | |
| L8 | could be also considered for the regulatory asset | | | |
| L9 | treatment being moved to December 2019. | | | |
| 20 | Q. Okay. And okay. So then just to close the | | | |
| 21 | exhibit out, page 3 is another scenario. And this | | | |
| 22 | scenario is if the Commission accepted Mr. Mullins' | | | |
| 23 | proposal in full, which is that PTCs are monetized when | | | |
| 24 | Puget uses them on an estimated tax payment rather than | | | |

when they are included on an annual tax payment.

| Susan | Free | by | Mr. | Pe | pple |
|-------|------|----|-----|----|------|
|-------|------|----|-----|----|------|

| | Susan Free by Mr. Pepple |
|----|--|
| 1 | So this includes additional PTCs because Puget |
| 2 | included PTCs in 2019 estimated taxes. Is that your |
| 3 | understanding? |
| 4 | A. That's my understand of Mr. Mullins' position, |
| 5 | yes. |
| 6 | Q. And that's what this |
| 7 | A. Yes. |
| 8 | Q. What it reflects. Okay. |
| 9 | And then so the impact here is an |
| 10 | \$11.3 million revenue requirement reduction on line 1; |
| 11 | and if you include the pro forma adjustments you |
| 12 | proposal, it's a \$1.5 million reduction? |
| 13 | A. Correct. |
| 14 | Q. Okay. And then can you turn to page 44 of your |
| 15 | rebuttal testimony, please. |
| 16 | A. I'm there. |
| 17 | Q. And I'm looking at line 19. And there you say, |
| 18 | PSE has appropriately not reflected Colstrip Units 1 and |
| 19 | 2 as a regulatory asset as of December 31, 2019, because |
| 20 | the date is outside of the plant pro forma period of |
| 21 | June 2019. |
| 22 | Do you see that? |
| 23 | A. Yes. |
| 24 | Q It is a fact isn't it that PSF has now |

transferred the remaining plant balance of Colsrtip 1

Page: 320

| | Susan Free by Mr. Pepple |
|----|--|
| 1 | and 2 to a regulatory asset? |
| 2 | A. Correct. |
| 3 | Q. That's all my questions. |
| 4 | JUDGE PEARSON: Thank you. |
| 5 | Any redirect? |
| 6 | MS. CARSON: No, Your Honor. |
| 7 | JUDGE PEARSON: Okay. Questions from the |
| 8 | bench? |
| 9 | Okay. So we're going to go ahead and take a |
| 10 | recess now before we continue. Yes, we'll come back |
| 11 | with this panel. Ten minutes. Okay. So we'll take a |
| 12 | 10-minute recess. |
| 13 | (A recess was taken from 3:24 p.m. to 3:39 p.m.) |
| 14 | JUDGE PEARSON: We'll be back on the record |
| 15 | following the recess. In just one moment we'll have |
| 16 | questions from the bench for the witnesses. |
| 17 | MR. PEPPLE: Your Honor, one quick just |
| 18 | before the questions from the Commission. |
| 19 | PSE did confer during the break and Ms. Free |
| 20 | was able to get an answer to the one question I asked. |
| 21 | Would it be possible for her to put that on |
| 22 | the record? |
| 23 | JUDGE PEARSON: Absolutely. |
| 24 | MR. PEPPLE: Should I ask the question |
| 25 | again? |

| | Susan Free by Commissioner Rendahl |
|----|--|
| 1 | JUDGE PEARSON: That would be helpful, yes. |
| 2 | CROSS-EXAMINATION (Continued) |
| 3 | BY MR. PEPPLE: |
| 4 | Q. So the question was whether the deferred tax |
| 5 | asset associated with monetized PTCs whether PSE was |
| 6 | earning a return on it or not? |
| 7 | A. No, it is not a rate base. |
| 8 | Q. Okay. Thank you. |
| 9 | COMMISSIONER RENDAHL: Can I just follow up |
| 10 | on that? |
| 11 | So I think your question is, is it earning a |
| 12 | return just in rate base or whether it's investor |
| 13 | supplied working capital or a regulatory asset, is it |
| 14 | also earning a rate base in those? |
| 15 | MS. FREE: It is not it is included in |
| 16 | nonoperating, so it is not earning a return in any |
| 17 | fashion. |
| 18 | COMMISSIONER RENDAHL: Thank you. Yes. |
| 19 | JUDGE PEARSON: Okay. Thank you. |
| 20 | COMMISSIONER BALASBAS: All right. This |
| 21 | question is directed to Ms. Hopkins. |
| 22 | Good afternoon, Ms. Hopkins. |
| 23 | MS. HOPKINS: Good afternoon. |
| 24 | COMMISSIONER BALASBAS: So, Ms. Hopkins, can |
| 25 | you talk about what level of coordination there is among |

Margaret Hopkins by Commissioner Balasbas
all the various IT investments at PSE and maybe provide
some specific examples of both project and executive
oversight.

MR. TAYLOR: Certainly. So in terms of the level of coordination, all of the IT investments stem, first and foremost, from a business strategy.

So when we're planning for a five-year planning exercise, all of the officers are involved in discussions with respect to priorities for the company as they relate to customer need, business need, reliability, et cetera.

And so once the business proprietaries are established from that flows a conversation of whether or not there's technology associated with meeting that demand or that business need.

So as priorities are determined at that level, we then work inside of the IT organization to determine if there's a technology investment required to support, and we provide estimates initially in the planning phase to place IT investments into the five-year plan.

Once they are in the plan and during a calendar year, when we embark on -- you know, an IT project, we go through a pretty rigorous process that we call -- it is a business case to some degree, but we

| Margaret Hopkins by Commissioner Balasbas |
|---|
| call it our "corporate spending authority." It's a CSA. |
| And it has multiple phases by which you determine the |
| value of an investment. |

And that CSA process is signed off by two officers, so there's a business officer, an executive who puts forth the need, they sign off on this business case, and then I sign off on it as well. And it takes multiple levels of management review before it goes through each of the phases.

So there's quite a bit of analysis that goes into the early phases to determine the value, whether it is something that we, if fact, want to do for the company. Sometimes we assess multiple alternatives and determine that, in fact, maybe we should not proceed.

So it -- it -- I would say that in every step of the process of a technology investment, we have multiple levels of management reviewing the costs and the benefits and signing off on those throughout.

COMMISSIONER BALASBAS: So I can understand that process and analysis for a single IT investment.

But how does that -- or -- but then how -- how does the analysis and management and oversight of each individual IT project then get coordinated with all the different projects that are ongoing at the same time.

MS. HOPKINS: Is your question that if -- if

Margaret Hopkins by Commissioner Balasbas one project over here has to coordinate across to another project.

COMMISSIONER BALASBAS: Well, it's not just projects coordinating among themselves, but just from an overall global standpoint within the company how -- how do you and your division ensure that all of those IT investments are being coordinated?

And which leads me to a related question which is then how -- you know, given all the different accounting positions and other projects that are going on at the company right now, how do we ensure that what we approve for purposes of rate recovery, rate payers are not double paying for investments or that we're not double counting investments for rate making.

MS. HOPKINS: Okay. So two-step question. I just want to break it down to two.

So re-ask me the first one so I make sure I hit that one and then I will -- re-ask me the second one --

COMMISSIONER BALASBAS: So the first question is on -- with all the different IT projects going on, not only coordination among multiple projects if they're say, for instance, going after the same business strategy but also managing all of the different IT investments at the same time and coordinating all

Margaret Hopkins by Commissioner Balasbas
those so that we then lead to the question of how do we
make sure we're not double counting or layering all
these investments and rate payers are not paying twice
for the IT investment.

MS. HOPKINS: Well, I guess to answer the first question, we have monthly reports that are reviewed particularly for our strategic projects. And the strategic projects that have the most dollars associated with them. So they're the ones that buy and large are the ones we put forth in our testimony.

There's a monthly report that goes out to the entire executive team, the officers and the directors that shows the status of those projects in terms of their cost, their risks, their issues, their benefits at every phase in their project. And so that is reviewed -- in its entirety across the entire executive team.

So we have insight into all those projects on a regular basis and the opportunity through steering committees to raise issues and to, you know, halt a project, if necessary, or ensure that we know whether or not these cross over.

So there is cross-coordination and oversight through what we call our Enterprise Program Office. So they provide that cross-coordination and costs are taken

| Susan Free by Commissioner Balasbas | |
|---|--|
| into account as part of those reporting mechanisms. | |

So it would be difficult through that report to know if there is any duplication. But I would say that I personally review every IT investment that goes through to a high degree of scrutiny, and I would have some insight into whether or not there's any duplication. And to the best of my knowledge, I have not uncovered a piece of duplication to date; especially in the testimony we have in front of us.

COMMISSIONER BALASBAS: It looks like Ms. Free wants to jump in here on this answer, so I'll let Ms. Free do that.

MS. FREE: I think I can address the second part of the question.

We thought about this actually quite a bit when we were filing the case, about the duplication, because we have test year, we have pro forma, and we have the attrition.

And so the way we chose to put it together to ensure there was no duplication is the -- we limited the pro forma period to June, which is well before the attrition analysis starts.

We -- those projects we only included the rate year revenue requirement for those projects at June. And then the deferral was for projects that

Page: 327

| | Susan Free by Chairman Danner |
|----|--|
| 1 | qualified up into the beginning of the rate year. |
| 2 | And so there's no duplication. We made |
| 3 | it if you think about it on a timeline, we just made |
| 4 | sure that they were just stacked appropriately so that |
| 5 | they weren't double counted. |
| 6 | CHAIRMAN DANNER: Just to clarify. So we're |
| 7 | talking about not just duplication of infrastructure, |
| 8 | we're talking about duplication of services that these |
| 9 | different pieces might provided? |
| LO | You are nodding "yes." |
| L1 | MS. FREE: The services would probably be |
| L2 | Margaret. I'm just talking about how we layered in the |
| L3 | certain projects. |
| L4 | MS. HOPKINS: My commentary would have |
| L5 | related to not duplication of services; correct. |
| L6 | COMMISSIONER RENDAHL: So, for example |
| L7 | and maybe this is where Mr. Jacobs gets to say something |
| L8 | now where you have a number of different projects |
| L9 | under Get To Zero, some of which are foundational for |
| 20 | data center effort or maybe for the other IT projects to |
| 21 | work. |
| 22 | How do you separate out some of those |
| 23 | foundational enterprise level IT work that is picked up |
| 24 | in Get To Zero but may also may be also included in |

25

the data center work? Do you know what I'm saying?

Joshua Jacobs by Commissioner Rendahl

MR. JACOBS: I think I do. So let me try it this way with an example.

So our web redesign project, it was a re-platform of our website and there were many different parts to that. It was a large transformational project that was the first web project in a series of a few web projects for us.

So that went into service in the fall of 2018 under an order number, and that order number was closed when it went into service and was used in useful for customers.

As we look to build upon that platform with new features and functions, we'll have new order numbers that represent the work associated with that business case or corporate spending authorization and we will manage that work under that order number to represent the work streams associated with that business case.

CHAIRMAN DANNER: All right. Let me ask this question, Ms. Hopkins.

In your initial testimony you state that a number of PSE's IT applications are to take advantage of hosted services such as cloud computer, and then you state that the design of the new data center is anticipated in corporate discretion transition to the cloud.

| Margaret Ho | pkins b | ov Chairi | man Danner |
|-------------|---------|-----------|------------|
| Mangarotilo | | o, Onani | man Danno |

| Did PSE investigate did PSE investigate |
|--|
| the option of fully switching the hosted services when |
| considering alternatives through replacement of the |
| private data centers? |

MS. HOPKINS: Yes. We did. And the most important thing to understand about our IT systems is that there are IT systems that we have at PSE that cannot operate in the cloud.

By and large, those are our IT systems and assets that fall under NERC's compliance.

There is not a single cloud provider today or a single data center provider today who can meet the NERC's obligations and many of the providers like Microsoft and Amazon are trying very hard to find a way to certify themselves in this area but they cannot.

And so for the foreseeable future, PSE will have a physical data center that has on-premise systems because they cannot actually operate in the cloud.

CHAIRMAN DANNER: So if you can give me kind of -- well, a general idea of, you know, if you break it down, is most of this in the data center? Is most of this on the cloud? I mean how --

MS. HOPKINS: So today about 20 percent of our IT solutions are currently operating in the cloud.

Our knew pse.com service that -- when we Get

Margaret Hopkins by Chairman Danner

To Zero is operating in Amazon web services in the cloud.

So the way we go are about determining whether or not a service is suitable for the cloud, is first and foremost whether it can operate there. That's the first question. Some can; some cannot.

The second question you have to ask is whether or not the cloud provider can operate it in a secure manner.

The fact that we're a critical infrastructure, our cyber security requirements are so stringent and so critical to the operation of the gas and the electric system, if the cloud providers cannot meet the cyber security requirements, then we take a position that we, first and foremost, will make sure that the services are secure. That is a high priority for us.

If it's a low priority system, then we may provide some leniency there, but we -- we are very strong in our position on our cyber security stance.

And then, third, while marketing materials might try to appear that cloud services are more cost effective, we have a responsibility to ensure that the services we provide are the lowest cost solution for our customers to the best of our abilities. And oftentimes

| | Margaret Hopkins by Chairman Danner |
|----|---|
| 1 | the cloud solutions are not the most cost effective. |
| 2 | So the third assessment is, is it cost |
| 3 | neutral? Is it more cost effective to put it in the |
| 4 | cloud? Or it is more cost effective to put it on the |
| 5 | ground? |
| 6 | And so those are the criteria that we use to |
| 7 | determine. And then once that determination is made, |
| 8 | then we make the decision to put it in the data center |
| 9 | or not. |
| 10 | We do anticipate eventually more and more |
| 11 | services will transition to the cloud, as that makes |
| 12 | more sense. |
| 13 | As I stated, we're about 20 percent there |
| 14 | today. And when we built the data centers, we actually |
| 15 | reduced our square footage from about 20,000 combined |
| 16 | square feet to 2400 combined square feet. |
| 17 | CHAIRMAN DANNER: I'm sorry, give me those |
| 18 | again. |
| 19 | MS. HOPKINS: From about 20,000 square feet |
| 20 | to 2400 combined square feet, because we don't |
| 21 | anticipate the need to expand the data centers in scale |
| 22 | at the rate that we used to in the past. |
| 23 | CHAIRMAN DANNER: All right. Well, thank |
| 24 | you. |

And then you testified in rebuttal that of

Page: 332

| | Margaret Hopkins by Chairman Danner |
|----|--|
| 1 | the 79.3 million of the data set or costs that you're |
| 2 | seeking to recover, 46.1 million was updating the |
| 3 | existing IT systems to meet the current standards |
| 4 | required by the Emergency Management Systems, and the |
| 5 | configuration testing of the migration of the systems to |
| 6 | to the new facilities. |
| 7 | Were these expenditures exclusively related |
| 8 | to the data center disaster recovery plan? |
| 9 | MS. HOPKINS: Those expenditures were |
| 10 | related to standing up a new platform to enable disaster |
| 11 | recovery. |
| 12 | And what I mean by that is on the inside of |
| 13 | the data center if you exclude the facilities |
| 14 | themselves, on the inside of the data centers you have |
| 15 | network connectivity; you have telecommunications; you |
| 16 | have servers; you have storage. And all of that |
| 17 | equipment needed to be built out to accommodate disaster |
| 18 | recovery capabilities. So it was a replatforming, if |
| 19 | you will, inside the data centers. |
| 20 | So that equipment cost approximately |
| 21 | \$31 million. |
| 22 | The other \$14 million were the cost to |
| 23 | convert our applications to work on the new platform so |
| 24 | that they had the disaster recovery capabilities that |

they needed.

| | Margaret Hopkins by Chairman Danner |
|----|--|
| 1 | So the 14 million was largely labor cost for |
| 2 | the software developers to convert over to the new |
| 3 | systems. |
| 4 | CHAIRMAN DANNER: Okay. So I'm trying to |
| 5 | get where is the nexus to the AMI and Get To Zero? |
| 6 | Is between that and the emergency management stuff, |
| 7 | is there is there overlap there? |
| 8 | MS. HOPKINS: There is no overlap between |
| 9 | the data center project and the AMI project and Get To |
| 10 | Zero. So I don't believe there is any overlap. |
| 11 | What I will say is that when we built Get To |
| 12 | Zero, rather than putting the cost of disaster recovery |
| 13 | for Get To Zero into the data center project, we built |
| 14 | disaster recovery capabilities as part of the build out. |
| 15 | For instance, pse.com, while it's in the |
| 16 | cloud, it has its own disaster recovery capability |
| 17 | already built into the cloud platform. |
| 18 | CHAIRMAN DANNER: Can you tell me your |
| 19 | last data centers lasted a decade? |
| 20 | MS. HOPKINS: That is correct. |
| 21 | Well, let me just correct you. The Bellevue |
| 22 | data center lasted 15 years. The Bothel data center |
| 23 | lasted a decade. |
| 24 | CHAIRMAN DANNER: Okay. So looking forward, |
| 25 | I mean, when do we expect you to come back either for a |

| | Margaret Hopkins by Chairman Danner |
|----|--|
| 1 | new data centers or |
| 2 | MS. HOPKINS: We think it is a really fair |
| 3 | question. |
| 4 | The challenge that we've had in this |
| 5 | industry I've been doing this for 32 years and I've |
| 6 | built many data centers. |
| 7 | The challenge that we've had with data |
| 8 | centers facilities, those traditional data centers like |
| 9 | Bothel and Bellevue were, is that they cannot keep pace |
| 10 | with technology. The heating and cooling requirements |
| 11 | are outpacing them as well as the density that that |
| 12 | goes on in the weight requirements. |
| 13 | And so it's a consequence of that these |
| 14 | traditional data centers that years and years ago we |
| 15 | thought would last us 20 years have averaged about seven |
| 16 | to ten. |
| 17 | The promise of module data center was |
| 18 | supposed to be the solution to building out a data |
| 19 | center that's going to last longer than that. |
| 20 | So the module data center concept started |
| 21 | about 10 years ago. And it was really early in its |
| 22 | infancy. |
| 23 | As we've just built out our modular data |
| 24 | centers, they've gotten to be excellent. And we believe |

that they will last 15 to 20 years.

| Margaret Hopkins by Chairman Danner |
|-------------------------------------|
|-------------------------------------|

And the reason we believe that is because the parts are interchangeable and they can scale much better with how technology is changing. And that seems to be proving out.

With that said, we're only ten years, as an industry, into the modular data center. And in about five years we'll know for sure whether or not they're going to make it 15 or 20. It's the best shot we've got.

CHAIRMAN DANNER: So get your crystal ball out.

Do you see cloud computing security characteristics improving? Is there a chance that you will be moving more to the cloud and some of these things even NERC or -- will be changing their standards to allow you to move that way?

MS. HOPKINS: I don't see NERC changing their standards or falling back on their standards. I actually anticipate that they will get a little stricter.

The cyber threat landscape is driving us to be more and more risk averse and I think rightly so. I don't think NERC will lift their standards.

What I do think may happen in the future, five to ten years out, is that companies like Microsoft,

| | Margaret Hopkins by Chairman Danner |
|----|--|
| 1 | companies like Amazon, will find a way to work with WEC |
| 2 | and NERC to determine how that they can become certified |
| 3 | and that they can comply and be allowed to house these |
| 4 | assets in their data centers. |
| 5 | And so I can foresee it. I think it will be |
| 6 | awhile. I think we're talking a five- to ten-year time |
| 7 | frame. |
| 8 | Now, with that said, I don't think that |
| 9 | security in the cloud is getting stronger and stronger. |
| 10 | And for non-NERC assets, I do see that we'll continue to |
| 11 | migrate other systems to the cloud over time. |
| 12 | It's highly possible that our SAP system, as |
| 13 | an example, will migrate to the cloud in four or five |
| 14 | years, because the vendors are forcing us to go there. |
| 15 | Whether it's cost-effective or not, they may |
| 16 | force us to go there. So it's possible that a good |
| 17 | 50 percent of our services could be in the cloud in the |
| 18 | next 10 years. |
| 19 | CHAIRMAN DANNER: Thank you. |
| 20 | COMMISSIONER RENDAHL: So this question is |
| 21 | for Ms. Koch. And I'm going to refer you to your |
| 22 | testimony, your rebuttal testimony CAK-6TR. |
| 23 | Do you have that? And a microphone. |
| 24 | MS. KOCH: Okay. |
| 25 | COMMISSIONER RENDAHL: So on page 7, if you |

| Cathy Koch by Commissioner Rendahl |
|--|
| look on line 15, actually the sentence begins on |
| line 13. You talk about PSE being behind in its ability |
| to meet growing customer expectations, new technology |
| requirements, and grid changes. And I don't think |
| you're referring just to AMI here. |
| Are you referring just to AMI or are you |
| referring to being ready to meet the changes coming? |
| MS. KOCH: It includes AMI, but |
| holistically, right, the grid needs to be ready for |
| that. |
| COMMISSIONER RENDAHL: So if PSE is behind |
| and is now trying to put in lots of different programs |
| and services to get up to speed, so to speak, does that |
| mean that the customer should bear all of this at one |
| time? |
| MS. KOCH: Well, I think what PSE has been |
| doing for a while is it has been moving us in that |
| direction. I think the arrival of the Clean Energy |
| Transformation Act has created a sense of pace that was |
| hard to foresee. |
| I think we are continuing to think about |
| aggressive but reasonable pace to improve reliability in |
| the grid. With but that's not the only reason we've |
| been thinking about things. |
| |

AMI, for example, we need to transition

| | Cathy Koch by Commissioner Rendahl |
|----|---|
| 1 | because it's failing and has a fundamental reliability |
| 2 | concern. |
| 3 | And so I think if as we continue to |
| 4 | understand what the ramifications of Clean Energy |
| 5 | Transformation Act is and what the expectations are. |
| 6 | What the rules are. I think that will become more clear |
| 7 | what we need to get accomplished |
| 8 | COMMISSIONER RENDAHL: So whoever is on the |
| 9 | bridge, could you please mute your line? |
| 10 | I'm sorry. Go ahead. |
| 11 | MS. KOCH: I think that understanding the |
| 12 | expectation of the Clean Energy Transformation Act will |
| 13 | really drive some clarity on how and what pace we need |
| 14 | to move at. |
| 15 | From my perspective, as a utility change |
| 16 | takes a little bit longer than the Amazons and the |
| 17 | Microsofts. And so my perspective is we're behind in |
| 18 | what we need to get to. But I suggest that it's |
| 19 | we're progressing at a reasonable pace, but we want to |
| 20 | be adaptable. |
| 21 | COMMISSIONER RENDAHL: But you had started |
| 22 | AMI before the clean energy bill passed; correct? |
| 23 | MS. KOCH: We did, for the reasons that it |
| 24 | was failing. Right? |
| 25 | And the henefits that AMI brings |

| | Cathy Koch by Commissioner Rendahl and Balasbas |
|----|--|
| 1 | irrespective of Clean Energy Transformation Act, I think |
| 2 | that's the third layer of potential benefits that AMI |
| 3 | provides microgrids and those sort of things. |
| 4 | COMMISSIONER RENDAHL: And Get To Zero was |
| 5 | before the clean energy passed for other reasons. |
| 6 | MS. KOCH: I believe it was. I believe it |
| 7 | was, yes. |
| 8 | COMMISSIONER RENDAHL: All right. Thanks. |
| 9 | COMMISSIONER BALASBAS: So I believe this |
| 10 | question is for Ms. Free. |
| 11 | So, Ms. Free, given that we have had, as the |
| 12 | questions that Commissioner Rendahl just asked about the |
| 13 | timing of the AMI and Get To Zero investments, given |
| 14 | that these are continuous investments before we |
| 15 | consider the Company's proposed pro forma adjustments, |
| 16 | are there AMI and Get To Zero expenses including |
| 17 | depreciation baked into the test year? |
| 18 | MS. KOCH: Yes, they are. |
| 19 | COMMISSIONER BALASBAS: And if "yes," do you |
| 20 | have those dollar amounts? |
| 21 | MS. KOCH: No, I do not. |
| 22 | COMMISSIONER BALASBAS: I would like to make |
| 23 | that a bench request. |
| 24 | CHAIRMAN DANNER: So, Mr. Jacobs, I wanted |
| 25 | to ask you in your testimony you said utility |

| | Joshua Jacobs by Chairman Danner |
|----|--|
| 1 | customers experience higher satisfaction when they are |
| 2 | provided with mobile, web, e-mail, and IVR channels as |
| 3 | compared to a phone call. |
| 4 | And I'm just wondering if you broke that |
| 5 | down, is if you were to take each of those |
| 6 | separately mobile, web, e-mail, and IVR would you |
| 7 | find the same level of satisfaction? |
| 8 | In other words, I'm what I'm getting at |
| 9 | is do customers prefer IVR to a phone call? |
| 10 | And your testimony is on page 6 of your |
| 11 | MR. JACOBS: Yeah. I'm going to Exhibit |
| 12 | in my rebuttal JJJ-12, which is the J.D. Power |
| 13 | survey, which I believe that's where that statement |
| 14 | comes from. |
| 15 | Which which shows a higher level of |
| 16 | customer satisfaction across a number of different |
| 17 | channels that customers can engage with us on. |
| 18 | CHAIRMAN DANNER: Right. But I mean |
| 19 | that's and that's the suite. |
| 20 | So, on balance, people like the suite. But |
| 21 | are there individual items on that on that list or in |
| 22 | that suite that they actually have higher levels of |
| 23 | MR. JACOBS: Yeah, I think based on |
| 24 | CHAIRMAN DANNER: on others they don't. |
| 25 | MR. JACOBS: Based on the survey results, it |

| | Joshua Jacobs by Chairman Danner |
|----|--|
| 1 | shows that there is a higher level of satisfaction |
| 2 | through desktop, mobile app, and then communicating with |
| 3 | them via text, chat, social media. Actually, IVR is the |
| 4 | lowest of the different channels. |
| 5 | CHAIRMAN DANNER: And |
| 6 | MR. JACOBS: It does not have an agent |
| 7 | experience represented here. |
| 8 | CHAIRMAN DANNER: Okay. So as you move |
| 9 | things more to IVR, we still have customer satisfaction |
| 10 | surveys that require or standards that require that |
| 11 | you reach a human being within a certain amount of time. |
| 12 | MR. JACOBS: Yeah. |
| 13 | CHAIRMAN DANNER: And from what I understand |
| 14 | the testimony you continue to meet that or you intend to |
| 15 | continue to meet those standards; is that correct? |
| 16 | MR. JACOBS: That's absolutely correct. |
| 17 | Nothing within Get To Zero is meant to reduce a |
| 18 | customer's option to pick up the phone and call and |
| 19 | spoke with a live agent. |
| 20 | Really, we're trying to make the experience |
| 21 | more convenient; however, a customer chooses to engage |
| 22 | with us. Whether it's through the IVR, with an agent, |
| 23 | on the mobile app or on the website. |
| 24 | To make sure that we have a consistent |

cross-channelled experience for customers that can

| | Joshua Jacobs by Chairman Danner |
|----|--|
| 1 | provide accurate realtime information so they can manage |
| 2 | their account when it's convenient for them. |
| 3 | We're not recommending any change to SQI 5, |
| 4 | which is what would dictate our staffing levels to make |
| 5 | sure that we meet that service level. |
| 6 | CHAIRMAN DANNER: So and right now so |
| 7 | if I decide I need to call Puget after looking at the |
| 8 | web and not finding what I need, I can make that phone |
| 9 | call, I will get IVR will give me a menu and |
| LO | somewhere at the end of that menu it will say press to |
| L1 | speak to an human being. |
| L2 | MR. JACOBS: Absolutely. |
| L3 | CHAIRMAN DANNER: How long does it take to |
| L4 | get to that point on the menu? |
| L5 | MR. JACOBS: I don't know that for certain. |
| L6 | I can say that part of what we delivered within Get To |
| L7 | Zero is a complete revamp of our menu system for |
| L8 | customers to make it easier and more convenient to |
| L9 | navigate through that path more quickly than they would |
| 20 | have otherwise. |
| 21 | CHAIRMAN DANNER: Okay. All right. Thank |
| 22 | you very much. All right. This is a question for |
| 23 | Ms. Koch. |
| 24 | I don't know if you saw on January 13th of |

this year, Utility Dive published an article that

| | Cathy Koch by Chairman Danner |
|----|--|
| 1 | says the title of the article was "Most Utilities |
| 2 | aren't getting full value from smart meters report |
| 3 | warns." |
| 4 | And this was a report it was an article |
| 5 | about a survey conducted by the American Council of |
| 6 | Energy Efficiency from Energy Efficient Economy. |
| 7 | ACEEE. And they surveyed 52 utilities around the |
| 8 | country and determined to to see how they are |
| 9 | leveraging AMI. |
| LO | And they captured data on six use cases. |
| L1 | And they found that basically one utility in the country |
| L2 | was was optimizing AMI, and that utility was not |
| L3 | Puget. |
| L4 | The six use cases were time of use rates, |
| L5 | realtime energy use feedback for customers, |
| L6 | behavior-based programs. |
| L7 | Do you want me to start over? |
| L8 | MS. KOCH: Yeah. Sorry. |
| L9 | CHAIRMAN DANNER: There's six. Time of use |
| 20 | rates, realtime energy use feedback for customers, |
| 21 | behavior-based programs, data disaggregation, grid |
| 22 | interactive efficient buildings, and volt VAR or CVR |
| 23 | optimization. |
| 24 | How do we know or how can we ensure that |
| 25 | Puget is going to optimize the benefits of of AMI and |

| | Cathy Koch by Chairman Danner |
|----|---|
| 1 | how do we how do we ensure that if we're going to |
| 2 | invest all this money in this platform that this |
| 3 | platform is going to be used to the fullest extent that |
| 4 | it can be for getting benefits to the customer. |
| 5 | MS. KOCH: So so we're spending a lot of |
| 6 | money to put |
| 7 | CHAIRMAN DANNER: I know. |
| 8 | MS. KOCH: to put a system in. And |
| 9 | that's really important. |
| LO | We're clearly moving forward with CVR. And |
| L1 | one of the things that isn't on your list is leveraging |
| L2 | at redistribution automation to improve reliability. |
| L3 | Some of these other ones, as you point out |
| L4 | and I definitely depend on strong customer |
| L5 | participation, and so we we've been thinking very |
| L6 | mindful of how to gain that so that pilots like these |
| L7 | can be successful. |
| L8 | I think we are actually talking about some |
| L9 | time of use pilots. I think your Staff, UTC Staff would |
| 20 | like us to try some peak pilots or peak pricing pilots |
| 21 | as well. |
| 22 | So with examples like Get To Zero that take |
| 23 | the basic foundation of AMI and begin to leverage it, I |
| 24 | think is a demonstration of PSE continuing to look at |

what this foundation offers.

| Cathy Koo | ch by Ch | nairman | Danner |
|-----------|----------|---------|--------|
|-----------|----------|---------|--------|

| i'ii aiso oπer that we have a group |
|--|
| in-house that's talking about how to enable data. Data |
| enablement. And we're we've continued to put |
| additional use cases together to test out a pilot |
| further uses with AMI. |

But we also need to be very mindful and thoughtful as we do that so that we can maximize through those benefits.

I'd suggest that we're going to be one of those at the top of the list. Because it really does have a lot of value -- not just for customers and there's a lot of -- there's a lot of customer in a facing value there, but there's a lot of system stuff, CVR being a great example where customers get the benefit things that we can do on the grid with AMI that -- it's not necessarily requiring customer participation. So the more that we can factor that in as well.

CHAIRMAN DANNER: So there's been a lot of talk over the last few years about performance-based rate making.

Is there a way that, you know, if -- if
we -- we look at something like these use cases or maybe
there's an advisory group that's put together to develop
these use cases, can we -- should we be tracking the

| | Cathy Koch by Chairman Danner |
|----|--|
| 1 | benefits that that we're getting or not getting |
| 2 | and and figure out if we should be determining |
| 3 | recovery based on the optimization. |
| 4 | MS. KOCH: So I think you have met Jon |
| 5 | Piliaris, but I do believe that there's been |
| 6 | conversations about performance base rate making and |
| 7 | that's something we're interested in talking more about. |
| 8 | Even in this rate case, I think UTC Staff |
| 9 | asked how how has benefits been realized with what |
| LO | what we've already got. And we were able to demonstrate |
| L1 | that even even just with half the system that we have |
| L2 | in today, we're receiving benefits. |
| L3 | Measure us? You should do that. We're |
| L4 | measuring ourselves, and so I think that's an |
| L5 | appropriate feature. |
| L6 | CHAIRMAN DANNER: All right. Thank you. |
| L7 | COMMISSIONER RENDAHL: So, Ms. Koch, I have |
| L8 | some questions for you about AMR and AMI. So we're back |
| L9 | to that topic. |
| 20 | And this has to do with the depreciable life |
| 21 | of the assets. So in your rebuttal testimony on page 6. |
| 22 | And I'll wait until you get there. |
| 23 | MS. KOCH: Okay. I'm there, 6. |
| 24 | COMMISSIONER RENDAHL: I'm sorry. Pretrial |
| 25 | direct |

| | Cathy Koch by Commissioner Rendahl |
|----|--|
| 1 | MS. KOCH: Okay. Page 6. |
| 2 | COMMISSIONER RENDAHL: I'm looking at |
| 3 | actually, it's rebuttal. It says "pretrial direct" on |
| 4 | the bottom. |
| 5 | MS. KOCH: Yeah, yeah. I notice that. |
| 6 | COMMISSIONER RENDAHL: But, yeah, it's |
| 7 | actually rebuttal. So it is Exhibit CAK-6T at page 6, |
| 8 | starting at on line 18. |
| 9 | MS. KOCH: Yes. |
| 10 | COMMISSIONER RENDAHL: Okay. So you |
| 11 | referred to the AMR system has a design life of |
| 12 | 15 years. |
| 13 | So that's the system had a design life or |
| 14 | the meters themselves had a design life? |
| 15 | MS. KOCH: The meters and the modules both |
| 16 | have a design life of 15 years. So, in essence, it's |
| 17 | the system. |
| 18 | COMMISSIONER RENDAHL: Okay. And I think |
| 19 | you were looking at a cross-exhibit from Public Counsel. |
| 20 | I think it was CAK-11CX that identified sort of the |
| 21 | remaining the remaining book value and the amount of |
| 22 | depreciation expense still for some of these AMR assets; |
| 23 | correct? |
| 24 | MS. KOCH: Mm-hmm. DRT-65, yes: |
| 25 | COMMISSIONER RENDAHL: So PSE started |

| | Cathy Koch and Susan Free by Commissioner Rendahl |
|----|--|
| 1 | putting these assets, the AMR assets into place in 1998 |
| 2 | or 1999. |
| 3 | MS. KOCH: '98, yes. |
| 4 | COMMISSIONER RENDAHL: And so why is there |
| 5 | still so much depreciable life of these assets? Or is |
| 6 | it you because you had to continually replace them and |
| 7 | that's restarted the depreciable life; is that why we |
| 8 | have so much left on the system? |
| 9 | MS. KOCH: I'm going to say "yes," but I'm |
| 10 | going to pass it to my |
| 11 | COMMISSIONER RENDAHL: Okay. That's why |
| 12 | you're all up here together so you didn't have to do |
| 13 | this. |
| 14 | MS. FREE: Yeah, I do believe that that |
| 15 | you have to continually replace the AMR. And, in fact, |
| 16 | I think we still are having to replace AMR as we're |
| 17 | building out the AMI system. And so the cost of that is |
| 18 | embedded in the the book value of the plan. So it's |
| 19 | been retired over the years, but it's also been added |
| 20 | to. |
| | |
| 21 | COMMISSIONER RENDAHL: Okay. So and this |
| 21 | |
| | COMMISSIONER RENDAHL: Okay. So and this |
| 22 | COMMISSIONER RENDAHL: Okay. So and this may be covered in the many exhibits and documents, but I |

| | Cathy Koch and Susan Free by Commissioner Rendahl |
|----|--|
| 1 | with AMI that still have that are being removed prior |
| 2 | to the end of their depreciable life, what is the |
| 3 | accounting treatment for those assets? |
| 4 | MS. FREE: They they stopped |
| 5 | depreciating. So the AMI will start depreciating and |
| 6 | the AMR will stop depreciating. |
| 7 | The book value of the AMR essentially gets |
| 8 | frozen in your rate base at that point. |
| 9 | The accounting entries are to move the gross |
| 10 | plant and accumulated depreciation to reverse those out. |
| 11 | But since those two accounts are both in rate base, |
| 12 | there's no impact on rate base. It just stays there. |
| 13 | And that usually and for mass assets, |
| 14 | like AMR would get trued up in the next depression |
| 15 | study. |
| 16 | But for something like AMR which is a bit |
| 17 | larger of the piece of the plant that you're dealing |
| 18 | with. It's its own thing. We've seen that there's been |
| 19 | regulator asset treatment given for the unrecovered |
| 20 | balance of the asset. |
| 21 | COMMISSIONER RENDAHL: So your plan is to |
| 22 | put it into a regulatory asset account? |
| 23 | MS. KOCH: Yes. |
| 24 | COMMISSIONER RENDAHL: And then will that |
| 25 | amount reduce over time as the even though they are |

| | Cathy Koch and Susan Free by Commissioner Rendahl |
|----|--|
| 1 | not depreciating. |
| 2 | MS. KOCH: We would request recovery through |
| 3 | amortization of that regulatory asset. |
| 4 | COMMISSIONER RENDAHL: Okay. But that has |
| 5 | not |
| 6 | MS. FREE: That's how it would reduce. |
| 7 | COMMISSIONER RENDAHL: That has not been |
| 8 | done yet? |
| 9 | MS. FREE: No. Because we the AMR system |
| LO | is still needed as we transition. It is still used and |
| L1 | useful where it's in service. |
| L2 | COMMISSIONER RENDAHL: So once the AMI |
| L3 | system is fully in place and you have pulled out the |
| L4 | last AMR meter, then you will begin this process? |
| L5 | MS. FREE: Yes. I would anticipate it will |
| L6 | be something we're looking at in our next rate case. |
| L7 | The treatment. |
| L8 | COMMISSIONER RENDAHL: Okay. And then for |
| L9 | the new AMI meters, what is the depreciable life of |
| 20 | those meters? |
| 21 | MS. FREE: They are I believe |
| 22 | COMMISSIONER RENDAHL: Maybe that's |
| 23 | Ms. Koch. |
| 24 | MS. FREE: Ms. Koch would understand the |
| 25 | design life. Which the depreciable life should be sort |

| | Susan Koch by Commissioner Rendahl |
|----|--|
| 1 | of based on. It would be based on industry experience |
| 2 | of other companies and it was it would be something |
| 3 | that our depreciation witness will support as we do |
| 4 | another depression study. |
| 5 | Our last depression study was done in our |
| 6 | 2017 general rate case before we had started really |
| 7 | fully implementing AMI, so there wasn't a lot for him to |
| 8 | study. I'm thinking it's around 15 years. |
| 9 | MS. KOCH: The design life for the AMI is 20 |
| 10 | years. |
| 11 | COMMISSIONER RENDAHL: Why don't we get a |
| 12 | mic to you. |
| 13 | MS. KOCH: The design life for the AMI |
| 14 | meters and modules are 20 years. |
| 15 | COMMISSIONER RENDAHL: Twenty years. Okay. |
| 16 | Thank you. |
| 17 | CHAIRMAN DANNER: So, Ms. Koch, I wanted to |
| 18 | ask you about the remote disconnect. There's been a lot |
| 19 | of conversation about whether there needs to be a last |
| 20 | knock before a disconnect is made. And yet in your |
| 21 | business plan you state the company will address remote |
| 22 | disconnect but on payment. |
| 23 | At the time you made that decision, what was |
| 24 | the basis for the assumption that there will not be a |
| 25 | last knock? |

| Susan K | och by | Chairman | Danner |
|---------|--------|----------|--------|
|---------|--------|----------|--------|

| M | IS. KOCH: | So the bus | siness case | talked about |
|----------|-------------|------------|-------------|--------------|
| remote d | isconnects | for move-i | n and move | outs and |
| delinque | nt accounts | | | |

But it also recognized that that evaluation needed to be furthered with the -- the work that GTZ was -- was doing. And so more analysis needed to be there.

In all honesty, I would have to -- I would have to look at the spreadsheet to deep dive into whether a last knock was provided.

But it's doubtful that it was, because it's a disconnect. So I think the assumption is that we would eventually get to a place where we understood that providing -- that performing a disconnect was an acceptable activity.

But I think that is in part why that set of benefits needed to be further analyzed because there's a lot of -- there were a lot of things that still needed to be thought out relative to that.

And so -- would you like to add anything more? You are just staring at me.

CHAIRMAN DANNER: For the record, Ms. Koch is looking at Mr. Jacobs.

MS. KOCH: But I think the assumption is -- that it's the possible. There is a possibility to

| Susan Koch by Chairman Danner |
|---|
| leverage AMI in these manners, and it brings value. But |
| clearly that said benefits needed to be further |
| evaluated through UTC. |
| CHAIRMAN DANNER: One of the concerns I have |

CHAIRMAN DANNER: One of the concerns I have is if there is no last knock, would there be an increase in the number of customers who would be disconnected compared to the number that would have if there were a last knock. And what is the cost of processing disconnected people to get them back into service.

If there's an increase in bad debt due to more unpaid bills because more people are disconnected, do you intend to seek recovery of those costs?

I mean these are some of the questions that are percolating.

And so it sounds to me like you're still in the thinking mode, but there could be some dollar differences in how you end up.

MS. KOCH: Absolutely. I think the AMI business case was trying to articulate that there are lots of foundational -- as using this foundational technology, there's lots of other things that we can leverage business cases and use cases and maximize the operation of that.

These two particular benefits really did need to be further thought out through GTZ's program.

Joshua Jacobs by Chairman Danner

And do you want to address some of his concerns? I am passing the microphone to Josh.

MR. JACOBS: Yes. So let me just provide a little bit of context to the transition.

Get To Zero is not part of the AMI meter rollout, but we are part of trying to maximize some of the value streams that you identified. I think you had realtime usage as one of the six value streams.

That's on our roadmap to explore to see how we can present that in realtime for customers on our digital channel so they can track their usage more effectively than -- really what we provide today is one monthly meter read on the website.

So there's certainly room for improvement there. The remote disconnect-reconnect project is part of the Get To Zero roadmap. If it's not in this case, it will be in a subsequent case. And we have been participating in the AMI rulemaking all year long to try and participate in the conversation, certainly, and take back components of the conversation to help inform where we go with a design and functionality of our program.

We certainly recognize that this is a difficult customer experience. It's a difficult employee experience at the same time. We would prefer not to disconnect anybody if we could make that work.

| Joshua Jacobs by | / Chairman Danner |
|------------------|-------------------|
|------------------|-------------------|

| Unfortunately, if we don't manage this end |
|---|
| of the business adequately, there are incremental costs |
| that roll to the rest of our customers, and we've seen |
| increases to our bad debt year over year as we try to |
| manage the prior obligation rules that are in effect |
| today and strike a balance between how many resources, |
| manual resources we we throw at this issue versus how |
| we bring automation and efficiency to managing the |
| balance and striking that balance. |

CHAIRMAN DANNER: Sure. So, you know, whether or not there is a last knock is really a public policy issue. And yet it's a public policy issue that's going to have cost for the company.

And I'm just trying to figure out what assumptions you're making, because if the assumptions are that there will not be a last knock, obviously some of the things I mentioned there's, you know, truck cost to get people around, and so forth.

But I just wanted to -- to see if you have already made up your mind that there will be no less knock in your economic assumptions or if you have basically hedged or if you have done the two side-by-side analyses.

MR. JACOBS: No. I would -- I would answer that by saying we have taken the feedback from the AMI

Joshua Jacobs by Chairman Danner rulemaking that there will be a component of customers, the most vulnerable customers that there will be a last knock to support those customers.

And I think that the final ruling on how you define the most vulnerable customers has yet to be included. But that is part of our thinking in how we'll structure what we automate through AMI and what we focus our -- our field resources to help support.

CHAIRMAN DANNER: Okay. But in your economic assessments of AMI so far, you're -- you didn't go one way or the other, but --

MR. JACOBS: So there are two assessments.

So in the AMI business case there is a high level assessment that -- that Cathy's team provided and is part of the Get To Zero initiative.

We have a -- a business case, a corporate spending authorization that does assess the -- the value streams whether there are labor, bad debt, postage associated with this rollout under Get To Zero, and we are incorporating those assumptions into our business case.

CHAIRMAN DANNER: Okay. Thank you.

COMMISSIONER RENDAHL: So I think you can understand why we're a bit confused about the overlap of our programs. But that's not my question.

| Joshua Jacobs by C | Commissioner Rendahl |
|--------------------|----------------------|
|--------------------|----------------------|

This question actually might go to

Mr. Wappler. See, you didn't come up here for nothing.

But it also might be Mr. Jacobs. But it is a question

you can decide who gets the mic.

So related to the disconnects, is PSE currently conducting remote disconnections with its AMI system that -- AMI meters that are currently in place with -- with the rules that we currently have? The last knock.

MR. JACOBS: Yes and no.

So we have a two-phased approach for the rollout and the functionality for remotely disconnecting and reconnecting customers.

Phase I, which was rolled out in October of 2019, was to effectuate it only for move-in and move-outs or for customer-requested disconnects. That helps us manage to the unauthorized energy usage compliance 60-day rule. So we are using it in that scenario.

We are not yet using it for delinquent accounts or denning purposes. We would expect that sometime in March of this year and are working towards that timeline.

COMMISSIONER RENDAHL: Okay. And this may be in one of your exhibits or somebody's exhibits. And

| Joshua Jacobs by Commissioner Rendahl |
|---|
| if it is, you can let me know. Otherwise, it would be |
| helpful to get it in a bench request response. |
| Do you know how many customers you have |
| remotely disconnected in this fashion in the years 2018 |
| and 2019 and to the present? |
| MR. JACOBS: Just for the first phase of the |
| customer initiated move-in or move-out. I don't know |
| that number but we can get that. |
| COMMISSIONER RENDAHL: That would be a bench |
| request number, I don't know what. Four. |
| Okay. And now I think this is going to |
| Mr. Wappler. You did not get spared. Sorry. |
| So The Engery Project in its testimony has a |
| proposal to create a disconnection reduction plan, and |
| then I believe that in your testimony, PSE is accepting |
| that proposal to create that plan and submit it to the |
| Commission for approval. |
| Have you given any thought to the timeline |
| and the process for that? You'll need to move the mic. |
| It is close to you. Thank you. |
| MR. WAPPLER: I have not specifically, in |
| terms of the timeline. |
| The only thing I would add is, I believe, as |
| we think about that, one of the key components should |
| |

be: What can we do together to broaden the awareness of

| | Andrew Wappler by Commissioner Rendahl |
|----|--|
| 1 | the existing aid and help programs that are out that are |
| 2 | currently underutilized by customers? |
| 3 | We are offering folks some things, like, |
| 4 | last knock and all that which are very important. |
| 5 | But I would like to place real emphasis in |
| 6 | this program on the outrage so that the available |
| 7 | dollars, which unfortunately often get unused, are used |
| 8 | to the maximum. And how we can bring as many customers |
| 9 | to the available programs today, and now the new |
| LO | platform that's available today to prevent people from |
| L1 | getting into that cycle in the first place. |
| L2 | COMMISSIONER RENDAHL: So you think this |
| L3 | would be something for discussion, the low income |
| L4 | advisory group, and then bring forward to the |
| L5 | Commission. |
| L6 | MR. WAPPLER: I think that would be |
| L7 | appropriate. |
| L8 | COMMISSIONER RENDAHL: So on another topic, |
| L9 | in Staff's cross-answering testimony Ms. Liu opposes The |
| 20 | Energy Project's proposal to tie PSE's help funding |
| 21 | increases to a base rate increase, and instead |
| 22 | recommends the Commission increase funding by twice the |
| 23 | percentage of the bill increase for 1.4 million, |
| 24 | whichever is greater. |

Are you familiar with that testimony by

| | Andrew Wappler by Commissioner Rendahl |
|----|--|
| 1 | Ms. Liu? |
| 2 | MR. WAPPLER: I am. |
| 3 | COMMISSIONER RENDAHL: Ms. Liu further |
| 4 | states that funding the health increases using a base |
| 5 | rate increase would create an inaccurate assessment of |
| 6 | actual bill changes and might result in a second |
| 7 | increase directly resulting from the ERF. |
| 8 | So do you understand her assessment? |
| 9 | MR. WAPPLER: I do not fully understand her |
| 10 | assessment. I would believe it would make sense to tie |
| 11 | it to the base rate increase. |
| 12 | COMMISSIONER RENDAHL: Okay. So at this |
| 13 | point, speaking for PSE, you would say you would not |
| 14 | agree with Ms. Lui's proposal? |
| 15 | MR. WAPPLER: That's correct. |
| 16 | COMMISSIONER RENDAHL: Okay. Thank you. |
| 17 | Maybe you can explain why. |
| 18 | MR. WAPPLER: I believe the proposal, as |
| 19 | performed by The Engery Project, made sense to tie it to |
| 20 | base rates. Seems like that would be the most related |
| 21 | to the amount of bill the customers are facing, and |
| 22 | tying available aid to that seems like that would keep |
| 23 | those in proportion. |
| 24 | COMMISSIONER RENDAHL: Okay. Thank you. |
| 25 | JUDGE PEARSON: Thank you. |

| | Andrew Wappler by Commissioner Rendahl |
|----|--|
| 1 | That's all the questions that we have for |
| 2 | this panel. |
| 3 | At this time we will call the witnesses in |
| 4 | the order indicated on the parties' witness lists. |
| 5 | Okay. And no party has indicated any |
| 6 | cross-examination for David Mills. |
| 7 | Are there any additional questions for |
| 8 | Mr. Mills from the bench? No. |
| 9 | Okay. The next witness is Daniel Doyle from |
| 10 | PSE. |
| 11 | Just to clarify whether Public Counsel has |
| 12 | cross for this witness? |
| 13 | MS. GAFKEN: Yes, we do have cross for |
| 14 | Mr. Doyle. |
| 15 | JUDGE PEARSON: Okay. Thank you. |
| 16 | Mr. Doyle, you are already sworn in. We |
| 17 | don't need to do that again. You can go ahead and take |
| 18 | a seat. |
| 19 | And then, Ms. Gafken, you may proceed |
| 20 | whenever you're ready. |
| 21 | MS. CAMERON-RULKOWSKI: Your Honor, staff |
| 22 | also does have cross-examination for Mr. Doyle. |
| 23 | JUDGE PEARSON: Okay. Thank you. |
| 24 | CROSS-EXAMINATION |
| 25 | BY MS. GAFKEN: |

Page: 362

| | | Dan Doyle by Ms. Gafken |
|----|-------|---|
| 1 | Q. | Good afternoon, Mr. Doyle. |
| 2 | A. | Good afternoon. |
| 3 | | Is this working? Now it's working. |
| 4 | Q. | Generally speaking, normalization is used by |
| 5 | regu | lated utilities directly filed the tax treatment of |
| 6 | acce | lerated depreciation with the regulatory |
| 7 | treat | ment; is that correct? |
| 8 | | And not being a tax expert myself, I'm using |
| 9 | very | rudimentary. |
| 10 | A. | Can you ask me one more time? |
| 11 | Q. | Sure. |
| 12 | A. | Thank you. |
| 13 | Q. | Generally speaking, normalization is used by |
| 14 | regu | lated utilities to reconcile the tax treatment of |
| 15 | acce | lerated depreciation with their regulatory |
| 16 | treat | ment; is that correct? |
| 17 | A. | I don't think that that's an appropriate |
| 18 | chara | acterize of normalization. |
| 19 | Q. | Okay. Can you give me the appropriate |
| 20 | char | acterization of normalization? |
| 21 | A. | I think normalization is a requirement of the |
| 22 | IRS o | code. There are certain aspects of normalization |
| 23 | which | n need to follow in the revenue requirements |
| 24 | deter | mination for the tax attributes covered by |
| 25 | norm | alization. But I don't think it's a reconciling |

| Dan Doyle | by Ms. | Gafken |
|-----------|--------|--------|
|-----------|--------|--------|

construct. It's one where you have rules and they are applied inside of the rate making.

Q. Okay. I agree that it's an IRS requirement, but is the purpose of it to somehow deal with the utilities' ability to have deferred depreciation and the different treatment that regulated utilities have in terms of their books and the taxes and whatnot?

A. So it really gets to the purpose. I've got several pages in my testimony which talks about the history of normalization and why it exists.

And the normalization rules first and foremost prevent what was a prevailing practice back in the late '50s and the '60s before the initial normalization rules came into effect; whereby, the benefits of accelerated depreciation were passed through two rate payers in the form of lower rates.

The problem with that treatment is that it created an unintended consequence inside the Treasury Department. Because when Treasury puts together its budget, the Government puts together its budget, it looks at taxable incomes from various sectors: individuals, industries, et cetera. And it didn't count on the utilities using flow-through accounting.

So basically what it did in 1969 is basically said we are going to prohibit flow-through accounting.

- We are going to require you in your revenue requirements 2 to include deferred taxes on the timing differences between book and tax depreciation, account for them
- 4 through accumulated deferred taxes and then as they turn 5 around pass them back to rate payers. That is what it 6 is all about.
 - Q. Okay. My next question is really a foundational question.
 - A. Okay.

3

7

8

9

11

15

16

17

18

19

20

21

22

23

24

25

10 Q. With respect to the protected EDIT amortization for the period of January 1, 2018, through February 28, 12 2019, is it fair to say that PSE believes that the 13 refunds to customers would violate the IRS normalization 14 rules?

If we need to, we can refer to your rebuttal testimony at Exhibit DAD-7T, page 26, lines 1 through 3.

A. Well, the pause is trying to sort through what angle you're coming at it this from. So there's two ways to look at it.

One is, we amortize the excess deferred taxes during that period of time.

My testimony says that that was an appropriate refund of those taxes to customers because of the way the normalization rules work.

If you're talking about capturing those excess

| | Dan Doyle by Ms. Gafken | |
|----|--|--|
| 1 | deferred taxes, recording a new regulatory liability, | |
| 2 | and then passing those back through rates, that would be | |
| 3 | a normalization violation. | |
| 4 | So I don't know which angle you're coming at in | |
| 5 | your question, Counselor. | |
| 6 | Q. Well, I'm not coming at it from an angle. I | |
| 7 | just wanted you to answer the question. | |
| 8 | May I have a minute to pull up the exhibit? | |
| 9 | I thought I had it in paper form, but apparently | |
| 10 | I need to pull it up in electronic form. | |
| 11 | If you could go to Exhibit DAD-7T, page 26, | |
| 12 | lines 1 through 3. | |
| 13 | A. Can you repeat that, Ms. Gafken? | |
| 14 | Q. Absolutely. Exhibit DAD-7T, page 26, lines 1 | |
| 15 | through 3. | |
| 16 | A. So I have DAD-7TR. | |
| 17 | Q. Oh, yes. | |
| 18 | So we have to take the negative inference. | |
| 19 | There you state that "Unlike Commission Staff, Public | |
| 20 | Counsel incorrectly asserts that the refund of protected | |
| 21 | EDIT amortization for the period of January 1, 2018, | |
| 22 | through February 28, 2019, would not violate the IRS | |
| 23 | normalization rules." | |
| 24 | So is it fair to say that you believe that | |
| 25 | Public Counsel's position with respect to the amounts | |

| | Dan Doyle by Ms. Gafken |
|----|--|
| 1 | with that time period would violate the normalization |
| 2 | rules? |
| 3 | A. Correct. |
| 4 | Q. Okay. |
| 5 | A. Sorry, I could have worded that a little |
| 6 | differently. |
| 7 | Q. The IRS has not issued guidance regarding the |
| 8 | application of the TCJA normalization requirements; |
| 9 | correct? |
| 10 | And if you need to, you can refer to Exhibit |
| 11 | DAD-17, page 26, lines 16 through 17. |
| 12 | A. That is correct. The guidance has not yet been |
| 13 | issued. |
| 14 | Q. The same IRS normalization rules apply to PSE |
| 15 | that also apply to the other Washington investor-owned |
| 16 | utilities; correct? |
| 17 | A. Correct. |
| 18 | Q. Indeed, the same IRS normalization rules apply |
| 19 | to PSE that also applies to all of the regulated |
| 20 | utilities across the country; correct? |
| 21 | A. Correct. |
| 22 | Q. Thank you. |
| 23 | MS. GAFKEN: I have no further questions for |
| 24 | Mr. Doyle. |
| 25 | JUDGE PEARSON: Thank you. |

| | | Dan Doyle by Ms. Cameron-Rulkowski |
|----|--|--|
| 1 | | Any redirect for this witness? Okay. |
| 2 | | Ms. Cameron-Rulkowski. |
| 3 | | MS. CAMERON-RULKOWSKI: Thank you, Your |
| 4 | Hono | or. |
| 5 | | CROSS-EXAMINATION |
| 6 | BY M | IS. CAMERON-RULKOWSKI: |
| 7 | Q. | Good afternoon, Mr. Doyle. |
| 8 | A. | Good afternoon. |
| 9 | Q. | I have a few questions for you on excess |
| 10 | defe | rred income tax. |
| 11 | | In your rebuttal testimony in Exhibit DAD-7TR |
| 12 | you discuss the consistency rule in relation to the pass | |
| 13 | back | of excess deferred income tax; right? |
| 14 | A. | (Witness nods head.) |
| 15 | | I do. |
| 16 | Q. | Thank you. |
| 17 | | And are you aware of any IRS penalties assessed |
| 18 | since | e the TCJA was enacted for violation of the |
| 19 | cons | istency rule against any utility in conjunction with |
| 20 | retur | ning EDIT to rate payers? |
| 21 | A. | No. But my testimony is pretty clear that we |
| 22 | would | dn't have that we wouldn't have that information |
| 23 | at this | s point in time for a couple of reasons. |
| 24 | | Number one, we don't have a guidance. Number |
| 25 | two - | - |

Page: 368

| | Dan Doyle by Ms. Cameron-Rulkowski |
|----|--|
| 1 | Q. And I understand that. |
| 2 | But you're not aware to date that any penalties |
| 3 | have been assessed by the IRS; correct? |
| 4 | A. No. That would come in the future. |
| 5 | Q. Thank you. |
| 6 | Can you tell us the initial balance of PSE's |
| 7 | EDIT as of January 1, 2018, the effective date of the |
| 8 | TCJA? |
| 9 | A. I can get I can get you in the ballpark. I |
| 10 | don't have the exact figures. I think the protected |
| 11 | balances were somewhere between 700 and 750 million, and |
| 12 | then the unprotected was somewhere around 130 million |
| 13 | and change. |
| 14 | Mr. Marcelia would have those numbers exactly. |
| 15 | Q. Thank you. Ballpark is fine. |
| 16 | Could you repeat the number for protected EDIT, |
| 17 | please? |
| 18 | A. Roughly 700 to 750 million. |
| 19 | Q. Thank you. |
| 20 | Now, it's the Company's plan at a high level to |
| 21 | amortize this whole balance of EDIT over a number of |
| 22 | years; right? |
| 23 | A. Well, we would amortize them over a number of |
| 24 | years in concert with the normalization rules. |
| 25 | Q. Understood. |

Page: 369

| | Dan Doyle by Ms. Cameron-Rulkowski |
|----|--|
| 1 | And so we're looking at amortization over |
| 2 | several decades; right? |
| 3 | A. Yeah, depending on the vintage of property, |
| 4 | could be several decades, correct. |
| 5 | Q. Thank you. |
| 6 | And as EDIT is amortized, is PSE going to pass |
| 7 | that EDIT back to rate payers? |
| 8 | A. Yes. It will happen through the rate making |
| 9 | process. |
| 10 | So, for example, when we went through the |
| 11 | expedited rate filing, we had rate increase on the |
| 12 | electric side, offset, I believe, almost dollar for |
| 13 | dollar with the excess deferred taxes and we had a rate |
| 14 | increases on the gas side, which was offset by the |
| 15 | amortization of excess deferred taxes. Those |
| 16 | amortizations will stay in rates until the next time we |
| 17 | change base rates. |
| 18 | However, on the books of account, timing |
| 19 | differences will continue to turn around that are not in |
| 20 | rates, and so you won't have perfect synchronization for |
| 21 | what's going on in the books and what's going on in |
| 22 | rates. |
| 23 | Q. Now, you used the term "dollar for dollar." |
| 24 | Is PSE going to ultimately pass back the entire |
| 25 | EDIT balance dollar for dollar to rate payers? |

Dan Doyle by Ms. Cameron-Rulkowski

A. I don't think that that -- I don't think that that can happen unless you have perfect rate making and you change your rates every time the deferred -- the excess deferred -- another vintage of property goes into being fully depreciated, you will never synchronize it up. It's not intended to work that way.

Q. Would there be a way that it could?

A. One way that you could is if every time -- so let me put it in this context.

Staff, I believe, has -- has a proposal on the table which I recommend to the Commission that you not adopt, because I do believe it is a normalization violation where you put a tracker on excessed deferred taxes and every time a new vintage of property goes into turnaround status or reversal status, you then change the rates. You cannot do that unless you change all of the other items that are components of applying the consistency rule. You can't cherry pick that piece out.

So what you could do is -- you could basically set rates, apply the consistency rules, call it once a year, once a quarter, whatever, and change rates. I think that -- that could work.

I don't think that's regulatory practical. It's practical in a regulatory sense. I just don't think it's practical.

Q. So what the Company's proposing means that in between rate cases, when the amortizations happen, the customers would not receive a passback of that added; is that correct?

A. You're going to need to try that one on me one more time.

Q. Certainly.

So from what I'm understanding, the -- in between rate cases, as the company amortizes the EDIT, customers would lose out on that EDIT and it would not be passed back to them; is that correct?

A. Perhaps in the early years, but it would reverse in the later years.

So you would be passing back after vintages become fully -- fully depreciated for tax purposes.

And the point I would make here is that what the company is proposing, I believe, is in strict accordance with the normalization rules.

And it is exactly what we did from 1986, the last change in tax rates to now. And it hasn't been an issue. We've been just -- or amortizing these excess deferred taxes back.

There's not perfect synchronization between rates and what's happening on the books. But on average, it's close.

Dan Doyle by Ms. Cameron-Rulkowski

Q. So how does PSE plan to incorporate EDIT amortization into rates?

A. So it basically goes in two components. The average rate assumption method rules require us to amortize those deferred taxes back in rates once each vintage of property becomes fully depreciated for tax purpose. So you start reversing those deferred taxes.

Basically, what will happen is you'll -- you'll set a test year in your next GRC. You'll capture those reversals or amortizations inside of -- of that test year as part of setting the revenue requirement. You will synchronize those amortizations or reversals with current tax expense, deferred tax expense, rate base, and accumulated deferred taxes, set them all in alignment, appropriate with the consistency rules, and then you set rates. And then it stays in effect until you repeat the process.

Q. And under the Company's proposal, how will the Commission be able to tell how much of the amortized EDIT has been returned to rate payers?

A. Well, the way you would have to do -- in order to actually reconcile it to the penny, you basically have to look at the amortizations or the reversals that you basically captured in a test year, follow it while those rates are in effect because that's basically what

Dan Doyle by Ms. Cameron-Rulkowski you're passing back.

In the meantime, you are going to be reversing additional vintages of -- of property that become fully depreciated for taxes; and then once you're done reversing other vintages, they totally drop out.

So you would have to reconcile what goes on in the books to what you actually captured in rates over time.

I'm not sure I can imagine a circumstance where it comes out exactly to the penny. But what I will tell you is in the earlier years of -- of the process, you'll capture higher levels of amortization and those will carry out as vintages come down. You might over collect a little bit. But toward the end of the process, it reverses and it will average out over time. But it's never going to be to the penny.

- Q. So what -- so could you propose an alternative to Staff's schedule -- well, to -- to Schedule 141X which Staff is -- has discussed in testimony to track the amortized EDIT that has been returned to rate payers?
- A. Well, I think I explained that to you in an earlier question. I'll just refresh your memory on it.
 - Q. Please do.
 - A. So you -- if you really wanted to do this and

Dan Doyle by Ms. Cameron-Rulkowski track it and try to get it as close as you could, you probably would want to basically on an annual basis, quarterly basis, whatever, in between rate cases, reset rates for all the components of the consistency rules.

Okay? Because you can't change the amortization or reversal of deferred taxes and rates unless you capture the other components of the consistency rules. Reset rates, that complies with the normalization rules, and -- and you go forward.

I do think it's -- it's probably a little bit futile, in a sense, or -- and really inefficient at one sense and maybe futile in another, because it's never going to reconcile itself out.

The key thing to remember about all of this is, during the period of January 1 of 2018, when tax rate changes -- right? -- and it was the end of February of 2019 when we actually put the ERF rates into effect and synchronized the consistency rules.

Pretty much any time during that time period if you would have done what I'm talking about, which is basically reset rates for all the components of -- of the consistency rules, you're gonna have an offset that pretty close gets you to zero or you are going to have a rate increase that overtakes that -- that reversal.

That's exactly what happened with the gas rates

| | Dan Doyle by Ms. Cameron-Rulkowski |
|----|--|
| 1 | in the ERF in February of 2019, if I got that right. |
| 2 | And then there was just almost a dollar for dollar |
| 3 | offset on the electric side. |
| 4 | So you can go through all these gyrations and |
| 5 | you're basically going to just end up with offsets. |
| 6 | The rules contemplate the rules contemplate |
| 7 | that as you give back these deferred taxes, the IRS does |
| 8 | not want its taxable income to come down, so the |
| 9 | amortization reduces taxable income to the IRS. |
| 10 | The reason that rate base is part of the |
| 11 | consistency rules is that rate base grows over time. |
| 12 | So as you reset the consistency rules into the |
| 13 | future, you're increasing rates on one side while you're |
| 14 | decreasing them for the amortization of the excess, and |
| 15 | the IRS is held harmless. |
| 16 | Q. One last question, Mr. Doyle. |
| 17 | Isn't the Company's intent to return as close as |
| 18 | possible to every dollar of amortized EDIT to rate |
| 19 | payers? |
| 20 | A. It's the Company's proposal that we're going to |
| 21 | return we are going to return excess deferred taxes |
| 22 | consistent with the normalization rules and the timing |
| 23 | of our rate cases. |
| 24 | Q. And I'm going to ask you again. Sorry, I said |

it was one more question. But you didn't quite answer

| | Dan Doyle by Ms. Cameron-Rulkowski and Mr. Kuzma |
|----|--|
| 1 | it. And so I'll just ask the same question. |
| 2 | Is it the intent of PSE to pass back to rate |
| 3 | payers as close as possible dollar for dollar the entire |
| 4 | amortized EDIT ultimately? |
| 5 | A. As close as possible as a proper application of |
| 6 | the normalization rules in the context of the timing of |
| 7 | our rate changes will allow. |
| 8 | MS. CAMERON-RULKOWSKI: No further |
| 9 | questions. |
| 10 | Thank you. |
| 11 | JUDGE PEARSON: Thank you. |
| 12 | Any redirect for this witness? |
| 13 | MR. KUZMA: Yes, Your Honor. |
| 14 | REDIRECT EXAMINATION |
| 15 | BY MR. KUZMA: |
| 16 | Q. Mr. Doyle, you had mentioned that excess |
| 17 | deferred income taxes were not going dollar for dollar. |
| 18 | Does plant depreciation and deferred DFIT, which |
| 19 | require similars treatment, it would cover dollar for |
| 20 | dollar? |
| 21 | A. No, they do not. |
| 22 | Q. And so on the dollar for dollar on the EDIT, is |
| 23 | that so the rate impact would not necessarily be the |
| 24 | dollar for dollar; is that what you were referring to? |
| 25 | A. Correct. |

| | Dan Doyle by Commissioner Balasbas |
|----|---|
| 1 | MR. KUZMA: Thank you. That's all I have. |
| 2 | JUDGE PEARSON: Okay. Thank you. |
| 3 | COMMISSIONER BALASBAS: So, Mr. Doyle, I'm |
| 4 | going to actually ask Ms. Cameron-Rulkowski's question |
| 5 | again, and I want a one-word answer. And I want a "yes" |
| 6 | or a "no." |
| 7 | Is the company planning to return amortized |
| 8 | EDIT as close as possible to the dollar to rate payers; |
| 9 | yes or no? |
| LO | MR. DOYLE: Yes. |
| L1 | COMMISSIONER BALASBAS: Thank you. |
| L2 | JUDGE PEARSON: We're just going to talk |
| L3 | amongst ourselves for about 30 seconds. |
| L4 | (Pause in the proceedings.) |
| L5 | JUDGE PEARSON: We're going to take a |
| L6 | five-minute recess right now. So we'll be off the |
| L7 | record. |
| L8 | (A recess was taken from 5:01 p.m. to 5:15 p.m.) |
| L9 | JUDGE PEARSON: All right. So we'll be back |
| 20 | on the record. |
| 21 | And Mr. Marcelia is up and ready to testify. |
| 22 | If you would please stand and raise your right hand I |
| 23 | will swear you in. |
| 24 | MR. MARCELIA: Again? |
| 25 | JUDGE PEARSON: Did I swear you in earlier? |

| | Matt Marcelia by Mr. Pepple |
|----|--|
| 1 | MR. MARCELIA: You did. |
| 2 | JUDGE PEARSON: Okay. Then never mind. |
| 3 | That's right, you are still under oath. |
| 4 | And it looks like just Mr. Pepple has |
| 5 | questions for Mr. Marcelia. |
| 6 | CROSS-EXAMINATION |
| 7 | BY MR. PEPPLE: |
| 8 | Q. Could you turn to your rebuttal testimony to |
| 9 | Exhibit MRM-11T, page 9, please. |
| 10 | A. Okay. I'm there. |
| 11 | Q. And just to set a little background. So this |
| 12 | section of your testimony, this is Section B here, |
| 13 | you're responding to AWEC's witness Mr. Mullins' |
| 14 | proposal to offset the Colstrip 1 and 2 plant balances |
| 15 | with production tax credits that PSE has included in |
| 16 | estimated tax payments, but has not yet included on an |
| 17 | annual tax filing; correct? |
| 18 | A. Correct. |
| 19 | Q. And lines 17 through 19 of this page, you argue |
| 20 | that Mr. Mullins' proposal is inconsistent with prior |
| 21 | Commission orders and settlements addressing how and |
| 22 | when PTCs may be utilized. |
| 23 | Do you see that? |
| 24 | A. That's correct. It is. |
| 25 | O And then to the next nage, the next Ω&A starting |

| | , |
|----|--|
| | Matt Marcelia by Mr. Pepple |
| 1 | on 3, you discuss these prior orders in settlements that |
| 2 | you're talking about. |
| 3 | A. Yes. |
| 4 | Q. And so my understanding of the history of this |
| 5 | issue is that PSE used to provide the value of PTCs to |
| 6 | customers in the year that they were generated |
| 7 | regardless of whether any of those PTCs could actually |
| 8 | be used by PTC [verbatim] on its tax returns? |
| 9 | A. That's right. That was the original treatment |
| 10 | back in 2005 to 2010. |
| 11 | Q. Okay. And so that's that's the circumstance |
| 12 | that led to the creation of this large deferred tax |
| 13 | asset that PSE had is that it was providing value to |
| 14 | customers in a year but not getting the same value back |
| 15 | from the IRS in the same year? |
| 16 | A. Yeah. That's correct. |
| 17 | Q. Okay. And so is it your understanding that |
| 18 | Mr. Mullins' proposal is to use PTCs to offset Colstrip |
| 19 | plant balances that have not even been used on an |
| 20 | estimated tax return? |
| 21 | A. The the orders and the rules that we're |

- A. The -- the orders and the rules that we're operating under now require that PTCs to be used on the tax return to be monetized; that is the annual tax return. Not the estimates but the annual tax return.
 - Q. Okay. But it seems like there is a difference

23

24

- between what happened before and what Mr. Mullins' proposal is -- I guess, in one sense, you would pass the value of PTCs back to customers even if you knew with near certainty that you wouldn't have any tax liability at all in a year; correct?
- A. That was the original back in 2005 and 2010,
 yes.
 - Q. And Mr. Mullins' proposal, as you understand it, correct me if I'm wrong, is to use PTCs that you, in fact, estimate you will use on a --
- 11 A. Yes.

2

3

4

5

8

9

10

12

13

14

15

16

17

18

19

20

21

22

23

2.4

- Q. -- and you have used to reduce your estimated tax payments?
- A. Yes. In that regard, that is an improvement of that situation. But the fundamental issue is still -- it's an estimate. It's a no. And the value hasn't been established yet.
- Q. Okay. Okay. And so setting aside the -- your concerns about the value -- how accurate the value is, are you aware of any IRS rule or other requirement that would prevent the Commission from recognizing PTCs that are -- as being monetized when they are used as an estimated -- on an estimated tax return?
- A. The answer to that is there's no IRS rule because we're not talking about the PTC itself. We're

| | Matt Marcelia by Mr. Pepple | | | |
|----|--|--|--|--|
| 1 | talking about the regulatory liability for the PTC. And | | | |
| 2 | regulatory liability is fully in their control to do | | | |
| 3 | whatever they want to it. | | | |
| 4 | We're talking about using it in a way that's | | | |
| 5 | appropriate relative to the underlying economics which | | | |
| 6 | are focused on the PTCs. | | | |
| 7 | So there's two things. There's PTC. There's | | | |
| 8 | regulatory reliability for PTC. | | | |
| 9 | So we have this regulatory liability and we | | | |
| LO | are the treatment that we're using for the regulatory | | | |
| L1 | reliability is being determined by what's happening to | | | |
| L2 | the underlying PTC itself. | | | |
| L3 | So once we use that PTC on a tax return, that | | | |
| L4 | means we free up some of this regulatory liability to be | | | |
| L5 | re-classed against the Colstrip investment. | | | |
| L6 | Q. Okay. So, in other words, the Commission has | | | |
| L7 | discretion in this area? | | | |
| L8 | A. Yes. | | | |
| L9 | Q. Okay. And I guess the issue of when PTCs are | | | |
| 20 | monetized is is really only a question of timing, | | | |
| 21 | right? | | | |
| 22 | So, in other words, when PTCs are whether | | | |
| 23 | whether PTCs are considered to be monetized when they | | | |
| 24 | are included in an estimated tax payment or whether they | | | |

are included in an annual return, the total number of

Matt Marcelia by Mr. Pepple

| PTCs available to | PSE doesn' | t change; | correct? |
|-------------------|------------|-----------|----------|
|-------------------|------------|-----------|----------|

A. Well, that's correct. We have a total stack of PTCs.

It is theoretically possible that some of them could expire worthless if it were to get out to that time frame. Not really the issue here. But theoretically some of them could expire.

Q. But other than that?

1

2

3

4

5

6

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

- A. Other than that; you're right.
- Q. All right. And so, I guess -- so that means that the total value of PTCs that PSE has is known today.

I guess the only uncertainty would be how much interest is applied based on --

A. Yeah. I would say that the total stack of PTCs is known today. But because we haven't gotten any benefit back from the IRS, there is no true benefit.

It is a -- the PTCs that haven't been utilized represent future benefit in our taxes, not current benefit in our taxes.

That's kind of -- that's the crux. So yes, we have this paper asset, which we've gotten no value for, but we will get it once we have taxable income and we're able to use it to reduce the tax payment.

So the value of the PTC comes when it is

| | Matt Marcelia by Mr. Pepple | | | | |
|----|--|--|--|--|--|
| 1 | actually used to reduce a tax payment. | | | | |
| 2 | Q. Right. So although, to be clear on that, you | | | | |
| 3 | did use PTCs in your last tax return. So some of them | | | | |
| 4 | have actually | | | | |
| 5 | A. That's right. | | | | |
| 6 | Q been monetized in that? | | | | |
| 7 | A. That's right. | | | | |
| 8 | Q. So, I guess, assuming that you know the | | | | |
| 9 | unrecovered investment for Colstrip Units 1 and 2 with a | | | | |
| LO | reasonable degree of certainty, you can also identify | | | | |
| L1 | with reasonable accuracy how many how much of the | | | | |
| L2 | value of your PTC stack would be available to offset any | | | | |
| L3 | unrecovered plant ballots for Units 3 and 4 when those | | | | |
| L4 | are eventually out of rates; is that would you agree | | | | |
| L5 | with that? | | | | |
| L6 | A. I would agree with that. | | | | |
| L7 | But in terms of setting rates, we don't usually | | | | |
| L8 | use these estimates and projections to do that. | | | | |
| L9 | Usually, it's like a known measurable. So these are | | | | |
| 20 | estimates. Right? Estimated Colstrip balance at | | | | |
| 21 | closure. Estimate of PTCs that are available to use. A | | | | |
| 22 | lot of estimates. | | | | |
| 23 | Typically we want known measurable. But, yeah, | | | | |
| 24 | we have estimates. Lots of them. | | | | |

Q. Right. But -- but it sounds like you can get

| | Matt Marcella by Mr. Pepple | | | |
|----|---|--|--|--|
| 1 | pretty close to an | | | |
| 2 | A. Close but still an estimate. | | | |
| 3 | Q. Yes. Okay. | | | |
| 4 | A. Right? | | | |
| 5 | Q. Okay. And were you in the room just one | | | |
| 6 | other question. | | | |
| 7 | Were you in the room when I was cross-examining | | | |
| 8 | Ms. Free? | | | |
| 9 | A. Yes, I was. | | | |
| 10 | Q. Okay. And did you hear how she wantonly threw | | | |
| 11 | you under the bus? | | | |
| 12 | A. I did. Susan Free is my friend. She meant it | | | |
| 13 | nicely. | | | |
| 14 | Q. So I'll ask you the question that she deferred | | | |
| 15 | to you which is why there is EDIT associated with | | | |
| 16 | monetized PTCs? | | | |
| 17 | A. That is a great question. | | | |
| 18 | So it starts back in the day, when we created | | | |
| 19 | the PTC the PTCs are generated. At that point in | | | |
| 20 | time so this goes back when the wind farms were first | | | |
| 21 | placed in service because direct PTCs over the first | | | |
| 22 | ten years of the wind farm. | | | |
| 23 | And so we recorded those PTCs as a deferred tax | | | |
| 24 | asset because it's a tax credit that we're entitled to. | | | |
| 25 | When we do that, we create a regulatory | | | |

| | Matt Marcelia by Mr. Pepple | | | |
|----|--|--|--|--|
| 1 | liability at that point in time. | | | |
| 2 | The creation of the regulatory liability, when | | | |
| 3 | the PTCs are generated, triggers a deferred tax asset as | | | |
| 4 | an offset. Okay? | | | |
| 5 | So our whole stack of our whole regulatory | | | |
| 6 | liability for PTCs has a deferred tax asset against | | | |
| 7 | them. All right? | | | |
| 8 | Q. So that can I interrupt you for a second? | | | |
| 9 | A. Sure. | | | |
| 10 | Q. That remains true even though you were passing | | | |
| 11 | the value of PTCs back to the customers? | | | |
| 12 | A. Yes. Yes. Because the regulatory liability is | | | |
| 13 | attached sorry, the deferred tax asset that we're | | | |
| 14 | talking about is attached to the regulatory liability | | | |
| 15 | for the PTCs. Okay? | | | |
| 16 | So when the PTCs are monetized so, for | | | |
| 17 | example, we monetize the amount that's being applied | | | |
| 18 | against Colstrip 1 and 2. We took part of that | | | |
| 19 | regulatory liability of the whole balance and it got | | | |
| 20 | re-classed over to offset the Colstrip plant. When we | | | |
| 21 | re-classed it over there, its deferred tax asset went | | | |
| 22 | with it. Okay? | | | |
| 23 | Q. Can I interrupt you one more time? | | | |
| 24 | A. Sure. | | | |
| 25 | Q. When you say you you used it to offset the | | | |

| plant balance, you're speaking in hypotheticals; righ | plant balar | ce, you're | speaking in | n hypothetic | cals; right? |
|---|-------------|------------|-------------|--------------|--------------|
|---|-------------|------------|-------------|--------------|--------------|

A. It's recorded gross, so the plan balance is still there and this reg liability for the PTC, it's still there.

But because we are calculating the interest component against that, because obviously the -- the Colstrip balance is in rates, it is part of rate base.

We monetized this -- this amount for PTC when we filed the 2018 tax return. That occurred after rates were set. And so we're charging interest on that. Kind of the carrying cost. So that basically we're offsetting the Colstrip balance for the regulatory liability for the PTCs, in essence.

When we did that, we moved the regulatory liabilities for the PTCs that had been monetized. We moved that out of the big bucket into a little bucket. And when we did that movement, the regulatory -- I'm sorry, the deferred tax asset needs to slide over with it.

Because at the end of time, we're going take the Colstrip plant and the reg liabilities of PTCs and we'll merge them together, and then we'll take the -- the deferred tax asset that's all in the PTCs and the deferred tax liability that's on the Colstrip plant, merge those together.

| | Matt Marcelia by Mr. Pepple |
|----|--|
| 1 | So it will all come together. Right? All |
| 2 | the deferred taxes will have an offsetting effect. The |
| 3 | plant will have an offsetting effect. |
| 4 | Does that make sense? |
| 5 | Q. It makes sense enough, I think. |
| 6 | A. Okay. |
| 7 | Q. That was my worst grade in law school, was tax. |
| 8 | All right. Those are all my questions. Thank |
| 9 | you. |
| 10 | JUDGE PEARSON: Any redirect? |
| 11 | MR. KUZMA: No, Your Honor. |
| 12 | JUDGE PEARSON: Okay. Do any other parties |
| 13 | have questions for this witness? No. |
| 14 | And there is a question from Commissioner |
| 15 | Balasbas. |
| 16 | COMMISSIONER BALASBAS: All right. Good |
| 17 | evening, Mr. Marcelia. |
| 18 | MR. MARCELIA: Good evening. |
| 19 | COMMISSIONER BALASBAS: So in the 2017 |
| 20 | Avista general rate case, they estimated that their |
| 21 | protected plus EDIT amortization period under the |
| 22 | average rate assumption method average rate |
| 23 | assumption method was 36 years. |
| 24 | Has under so under the average rate |
| 25 | assumption method, what would be PSF's amortization |

| | Matt Marcelia by Commissioner Balasbas |
|----|--|
| 1 | timeline? |
| 2 | MR. MARCELIA: I don't know exactly it |
| 3 | would be in the ballpark of 36 years, something like |
| 4 | that. It depends on how long take the book life of |
| 5 | the longest asset that we have, and that's kind of |
| 6 | what that's the longest. |
| 7 | But it ebbs and flows. It's not a constant, |
| 8 | you know, X million dollars every year. It flows |
| 9 | because assets enter reversal, and so it's it will be |
| LO | a long period. So 36 years is probably ballpark. |
| L1 | COMMISSIONER BALASBAS: I would like to make |
| L2 | a bench request for the best estimate that you have |
| L3 | under the average rate assumption. |
| L4 | MR. MARCELIA: Okay. |
| L5 | COMMISSIONER BALASBAS: That's it. |
| L6 | JUDGE PEARSON: That's it. Okay. |
| L7 | You're excused. Thank you. |
| L8 | MR. MARCELIA: Can I make a correction to |
| L9 | something my CFO said? Is that legal? I'm just asking. |
| 20 | JUDGE PEARSON: That's fine. Go ahead. |
| 21 | MR. MARCELIA: So the one of the |
| 22 | questions you asked was the final question you asked |
| 23 | a yes-or-no question. And I wanted to clarify |
| 24 | something. |
| 25 | So there's also a question about |

| Matt Marcelia by Co | ommissioner | Balasbas | ; |
|----------------------------|---------------|----------|--------|
| dollar-for-dollar return o | of the excess | deferred | taxes. |

So to be clear, the excess deferred taxes will be amortized dollar to dollar to the penny. And we can tell you that exact number at any point in time you would like to know, because we have software that tracks all of this. So that answer is "yes."

The issue as to whether -- how that goes into rate. That's a rate-making question. And rate-making questions are inherently messy because there's not practically a dollar-for-dollar return of anything.

So, if you recall, excessed deferred taxes are reversed because of book depreciation expense. And so there's a correlation.

If book's depreciation on an asset ceases for some reason, the excess deferred tax ceases to reverse because it is caused by book depreciation.

So then if you look at how do you recover book depreciation and rates? Do we recover it dollar for dollar? No, we don't recover it dollar for dollar, because there's -- there's different timing involved as to when an asset actually goes into rates.

So as a result, the excess deferred tax will have that same lumpiness when it goes into rates so that there's two elements. There's the amortization which

| Matt Marcelia by Commissioner Balasbas |
|---|
| will occur dollar for dollar just like it does for book |
| depreciation. But then when you set rates on a |
| historical test, you go: What depreciation incurred in |
| my historical test year? That's what's going to be set |
| into rates. |
| What excess deferred tax reversed during a |
| historical test year? That's what's going to be set |
| into rates. |

Will it all equal dollar for dollar?

Probably not. But it will be reversed dollar for dollar because assets get depreciated to zero. Excess deferred taxes will reverse to zero. But rate making will occur whenever rate making occurs using whatever rate-making techniques are permissible.

So I wanted to kind of clarify that because there's two elements. And the consistency requirement is such -- which Mr. Doyle was referring to -- such that however you treat book depreciation is how you would treat EDIT, or however you treat rate basis is how you would treat the accumulated deferred income taxes.

All those things need to be treated the same in a rate-making context. In addition to how we're doing --

Your question about ARAM is about the length of time things will be amortized. That covers the time

| | Matt Marcelia by Ms. Cameron-Rulkowski |
|----|---|
| 1 | that the excess deferred will be put into tax expense. |
| 2 | That tax expense will then go into cost of service for |
| 3 | some period, and that will then come into a rate case. |
| 4 | Perhaps this one. Perhaps another one. |
| 5 | But it will it is then available once |
| 6 | it hits tax expense, it's available for rate making. |
| 7 | And so you will set rates based on that. |
| 8 | But excess deferred tax isn't available to |
| 9 | just be have its own amortization because it's a tax. |
| 10 | It's a tax on something. This is being driven by book |
| 11 | depreciation expense. |
| 12 | So I wanted to kind of clarify a little bit. |
| 13 | Hopefully that helped. |
| 14 | MS. CAMERON-RULKOWSKI: Your Honor, could I |
| 15 | please ask Mr. Marcelia a cross question, based on what |
| 16 | he has just said? |
| 17 | JUDGE PEARSON: That's fine. |
| 18 | CROSS-EXAMINATION |
| 19 | BY MS. CAMERON-RULKOWSKI: |
| 20 | Q. Mr. Marcelia, one question. I hope. |
| 21 | EDIT is made up of entirely of dollars |
| 22 | collected from rate payers; correct? |
| 23 | A. Through the rate-making process. |
| 24 | Q. Thank you. I have no further questions. |
| 25 | A Okay |

| | Susan Free by Commissioner Balasbas |
|----|--|
| 1 | JUDGE PEARSON: Thank you. |
| 2 | Okay. And at this time we would like to |
| 3 | call Ms. Free back up because we do have another |
| 4 | question from the bench for her. |
| 5 | COMMISSIONER BALASBAS: Good evening, |
| 6 | Ms. Free. Keeping on the EDIT theme. |
| 7 | Would you please turn to your Exhibit |
| 8 | SEF-26? |
| 9 | MS. FREE: I'm there. |
| LO | COMMISSIONER BALASBAS: I just want to |
| L1 | confirm is that on line 34 of this exhibit. |
| L2 | So is this demonstrating that PSE's books of |
| L3 | account includes EDIT in a regulatory liability account? |
| L4 | MS. FREE: That is for GAAP purposes. It is |
| L5 | in a regulatory liability account. |
| L6 | COMMISSIONER BALASBAS: Okay. Thank you. |
| L7 | JUDGE PEARSON: Thank you. |
| L8 | Okay. And, Ms. Gafken, the time estimate |
| L9 | shows here you have questions for Mr. Hunt; is that |
| 20 | correct? |
| 21 | MS. GAFKEN: I do. |
| 22 | JUDGE PEARSON: Okay. So, Mr. Hunt, if you |
| 23 | could please approach the witness table. |
| 24 | MS. GAFKEN: My cross might go a tad bit |
| 25 | more than 15 minutes, but I don't think it will go too |

| | Thomas Hunt by Ms. Gafken |
|----|--|
| 1 | much longer. |
| 2 | JUDGE PEARSON: Please raise your right |
| 3 | hand. |
| 4 | (Sworn) |
| 5 | JUDGE PEARSON: Please be seated. |
| 6 | CROSS-EXAMINATION |
| 7 | BY MS. GAFKEN: |
| 8 | Q. Good evening, Mr. Hunt. |
| 9 | A. Hi. |
| LO | Q. Would you please turn to your Exhibit TMH-7 and |
| L1 | go to page 1? |
| L2 | A. Okay. Yes, I'm there. |
| L3 | Q. Toward the bottom of the page there's a chart |
| L4 | entitled "Short-term incentive plan." |
| L5 | With respect to PSE's shore-term incentive plan, |
| L6 | eating 90 percent of EBIDTA, E-B-I-D-T-A, is a threshold |
| L7 | for payment of an incentive; correct? |
| L8 | A. That's one of the two thresholds for payment. |
| L9 | Q. And the other finding threshold is achieving at |
| 20 | least six out of ten operational goals; correct? |
| 21 | A. That's safety and SQI, yes. |
| 22 | Q. Is it accurate to call them operational goals? |
| 23 | I did that as a shorthand in my questions, but I |
| 24 | do understand that it's SQI and safety goals. |
| 25 | A. Probably quality and reliability as a shorthand |

| | Thomas Hunt by Ms. Gafken |
|----|--|
| 1 | rather than "operational." |
| 2 | JUDGE PEARSON: Ms. Gafken, can I get a page |
| 3 | number? Sorry. |
| 4 | MS. GAFKEN: Sorry. We're still looking at |
| 5 | page 1 of Exhibit TMH-7. |
| 6 | JUDGE PEARSON: Okay. Thank you. |
| 7 | BY MS. GAFKEN: |
| 8 | Q. I'm sorry, Mr. Hunt, you took some exception |
| 9 | with my shorthand of "operational goals." |
| 10 | Could you give me the term that you would rather |
| 11 | hear? |
| 12 | A. Customer service and reliability. |
| 13 | Q. If PSE achieves at least six-out-of-ten customer |
| 14 | service and reliability goals and achieved at least |
| 15 | 90 percent of EBIDTA, incentives are paid under the |
| 16 | plan; correct? |
| 17 | A. Yes. |
| 18 | Q. And financial goals are capped at lower |
| 19 | performance levels for the customer service and |
| 20 | reliability goals but are also reduced for financial |
| 21 | performance below 100 percent EBIDTA? |
| 22 | A. I'm sorry. I'm not sure I followed your |
| 23 | question. |
| 24 | Q. We'll try it again. |
| 25 | So financial goals are capped at lower |

| | Thomas Hunt by Ms. Gafken |
|----|--|
| 1 | performance levels for the customer service and |
| 2 | reliability goals, but they are also reduced for |
| 3 | financial performance below 100 percent EBIDTA; correct? |
| 4 | A. Yes, that's correct. |
| 5 | Q. Would you please turn to cross Exhibit TMH-10X. |
| 6 | A. Could you let me know which of the data requests |
| 7 | numbers that is? |
| 8 | Q. Sure. So cross Exhibit TMH-10X is a copy of PSE |
| 9 | response to Public Counsel data request to number 278. |
| 10 | A. Okay. I have it. |
| 11 | Q. In subsection B, the response says that PSE has |
| 12 | met both of the funding thresholds in the past ten-year |
| 13 | period; correct? |
| 14 | A. That's correct. Each year both thresholds were |
| 15 | met for each of the ten years. |
| 16 | Q. And, in particular, there has been no year in |
| 17 | the past ten-year period where PSE has not achieved at |
| 18 | least six of the customer service and reliability goals; |
| 19 | correct? |
| 20 | A. Correct. |
| 21 | Q. Would you please turn to cross Exhibit TMH-12X, |
| 22 | which is a copy of Puget Sound Energy's response to |
| 23 | Public Counsel data request 281. |

Q. The chart provided in the response shows PSE's

A. Okay. I have it.

24

| | Thomas Hunt by Ms. Gafken |
|----|--|
| 1 | two threshold results over the past ten-year period; |
| 2 | correct? |
| 3 | A. That's correct. |
| 4 | Q. Now, would you please turn to cross Exhibit |
| 5 | TMH-11X, which is a copy of Puget Sound Energy's |
| 6 | response to Public Counsel data request 279. |
| 7 | A. Okay. |
| 8 | Q. The response says that performance of EBIDTA |
| 9 | below the funding threshold could still result in a |
| 10 | payment of incentives if low performance was caused by |
| 11 | extenuating circumstances; correct? |
| 12 | A. Yeah. Yes. The the data request asked a |
| 13 | hypothetical question. |
| 14 | One, that hasn't occurred. But in that |
| 15 | hypothetical situation it's possible that the plans |
| 16 | still could fund if if the CEO used that rule that |
| 17 | said there were some extenuating circumstances. |
| 18 | Q. By that rule, you're talking about Rule 8 that |
| 19 | is set out in the response? |
| 20 | A. Correct. That's that is an abstract from the |
| 21 | plan document which was also shared as as my exhibit |
| 22 | TMH-7, that we were looking at. That same one. The |
| 23 | rules are shown on page 5 of that Exhibit TMH-7 has 14 |
| 24 | different rules, many of which are just to clarify for |

employees how the plan would work.

- Q. Would you please turn to your rebuttal testimony which is Exhibit TMH-8T. And please go to page 5, lines 18 through 19.
 - A. Okay.

- Q. There -- there you state that you did not find examples of other utilities with dual funding thresholds and a funding table like PSE's when reviewing the example cited by Public Counsel witness Mr. Garrett; correct?
- A. Correct.
 - Q. The examples used by Mr. Garrett included
 American Electric Power, Southwestern Public Service
 Company, CenterPoint, and Entergy; correct?
 - A. I don't remember all the names, but if you say they were included, I would not be surprised.
 - Q. I should have asked earlier. I can provide a copy of Mr. Garrett's testimony. I don't think it will be necessary to go through pages of his testimony. But I suppose that's something that could be accepted subject to check. To make sure that I didn't misstate them, if you so choose.
 - MS. CARSON: Well, I would say that

 Mr. Garrett's testimony says what it says. And if -- if
 we need to verify it. If Mr. Hunt needs to verify it,
 he can. I'm not sure that needs to be done here.

| | Thomas Hunt by Ms. Gafken |
|----|---|
| 1 | MS. GAFKEN: Okay. |
| 2 | BY MS. GAFKEN: |
| 3 | Q. Mr. Hunt, have you studied the short-term |
| 4 | incentive plan of American Electric Power? |
| 5 | A. I'm not sure that I've studied it. |
| 6 | We did review the the report from |
| 7 | Mr. Garrett's that was included in the data request |
| 8 | and is an exhibit in my TMH-9. |
| 9 | Q. Did you review the plan from the company? |
| 10 | Let me clarify that question. |
| 11 | Did you review the short-term incentive plan |
| 12 | that American Electric Power has? |
| 13 | A. I don't recall reviewing the entire plan. But |
| 14 | 1 |
| 15 | Q. Okay. Have you studied the short-term incentive |
| 16 | plan of CenterPoint? |
| 17 | A. No. |
| 18 | Q. Have you reviewed the short-term incentive plan |
| 19 | of Southwestern Public Service Company? |
| 20 | A. I don't recall. |
| 21 | Q. Let me ask you this question. |
| 22 | Do you recall that Southwestern Public Service |
| 23 | Company's plan is based on both financial and |
| 24 | operational measures? |
| 25 | A. I'm I'm aware of other plans that have more |

| | Thomas Hunt by Ms. Gafken |
|----|---|
| 1 | than one measure, but not that have a matrix where the |
| 2 | two measures are tied together like PSE's plan. |
| 3 | Q. Have you studied the short-term intensive plan |
| 4 | of Entergy? |
| 5 | A. When you say "studied," that's there's |
| 6 | information about the plans in some of the the SEC |
| 7 | materials that companies share. But I haven't studied |
| 8 | it in in a sense of having extensively looked at it. |
| 9 | MR. KUZMA: Your Honor, if I could ask a |
| 10 | clarifying question? |
| 11 | I'm assuming you're referring to Entergy |
| 12 | Arkansas, the one that was mentioned by Mr. Garrett's |
| 13 | Entergy has multiple companies. |
| 14 | MS. GAFKEN: That's correct. |
| 15 | MR. KUZMA: Okay. |
| 16 | MS. GAFKEN: Thank you for that |
| 17 | clarification. I didn't include the states in my |
| 18 | questions. But that is correct, it is Entergy Arkansas. |
| 19 | Okay. I think that concludes my questions |
| 20 | for Mr. Hunt. |
| 21 | JUDGE PEARSON: Okay. Thank you. |
| 22 | Any redirect? |
| 23 | MS. CARSON: Yes, Your Honor. |
| 24 | REDIRECT EXAMINATION |
| 25 | BY MS. CARSON: |

| Q. | Mr. Hunt, you've talked about you did not |
|-------|--|
| nece | ssarily study these plans but you've reviewed them |
| and y | ou reviewed Mr. Garrett's report; is that right? |

- A. I certainly have reviewed Mr. Garrett's report and looked at other -- some of the cases that were mentioned in the report.
- Q. And you -- you distinguished that Puget's is different from others that -- that have -- may look at both financial and other metrics.

Can you just elaborate on that?

A. Sure. So that's -- it's still my understanding is that our -- our plan which has the matrix of funding as shown -- like we looked at on page 1. It ties into measures together in a way that you have to accomplish both at certain instances. That's separate -- you can have other plans with more than one measure, but that -- that was what I was saying was unique about our plan, that it looks at both of them together.

And then, as well, it limits funding for -- if the performance on the SQI and safety is not above 8 out of 10, it limits the funding. Doesn't matter what happens with the financial measure. There's a limit on the funding for the -- for the overall plan. And I don't believe I've seen other -- any other plan that does it that way.

| | Thomas Hunt by Chairman Danner |
|----|---|
| 1 | MS. CARSON: Thank you. No further |
| 2 | questions. |
| 3 | JUDGE PEARSON: Thank you. |
| 4 | Any questions from the bench? |
| 5 | CHAIRMAN DANNER: I would like a little |
| 6 | clarification. You know, I'm I read the testimony |
| 7 | it's still unclear to me which of these factors |
| 8 | predominantly even though you've got 14 factors |
| 9 | listed. It's SQI, safety, and financial performance. |
| LO | How do is it is it a soup where it is |
| L1 | just sort of discretionary how you allot those? Or what |
| L2 | is the formula? |
| L3 | MR. HUNT: So I think it's probably easiest |
| L4 | to look back at page 1 of the testimony TMH-7. |
| L5 | The measures are really grouped into two |
| L6 | buckets. One is the EBIDTA that you see horizontally; |
| L7 | and then the second is safety in SQI results which are |
| L8 | the SQIs that the Commission that PSE has been |
| L9 | fulfilling and reporting on based on the Commission |
| 20 | having implemented them in the the merger rate case |
| 21 | of Puget's power and Washington Natural Gas. |
| 22 | And so if all nine SQIs and the safety |
| 23 | measures are met, then that's 10 out of 10. You miss |
| 24 | any one, that makes 9 out of 10. |
| 25 | So in as it relates to that vertical |

| | Thomas Hunt by Chairman Danner |
|----|--|
| 1 | measure, they are all treated the same in that you miss |
| 2 | one, you drop one row down. You miss two, you drop a |
| 3 | second row down. |
| 4 | CHAIRMAN DANNER: One of the factors stated, |
| 5 | as I recall, the CEO has the discretion to change the |
| 6 | allotments among departments? |
| 7 | MR. HUNT: So that that is theoretically |
| 8 | possible if one department has performed extremely well. |
| 9 | The the funding based on the targets might be lower |
| LO | there, but the CEO could move, and really the |
| L1 | management |
| L2 | CHAIRMAN DANNER: And that's just a |
| L3 | subjective determination? |
| L4 | MR. HUNT: Correct. Yep. |
| L5 | CHAIRMAN DANNER: Okay. Thank you. |
| L6 | JUDGE PEARSON: Okay. Thank you. |
| L7 | Okay. So AWEC has waived cross for |
| L8 | Mr. Henderson, but we do have some questions from the |
| L9 | bench. If he could come up. Raise your right hand. |
| 20 | (Sworn) |
| 21 | JUDGE PEARSON: Please be seated. |
| 22 | COMMISSIONER RENDAHL: Good evening, |
| 23 | Mr. Henderson. It is evening and, yes, there's a |
| 24 | spotlight on you. |
| 25 | MR. HENDERSON: It is even brighter. |

| Duane Henderson b | / Commissioner | Rendahl |
|-------------------|----------------|---------|
|-------------------|----------------|---------|

COMMISSIONER RENDAHL: So the questions I'm going to ask are about the Tacoma L+G project, and the distribution systems upgrades.

So, as I understand from your testimony, your rebuttal testimony, you're accepting Staff's alternative recommendation to defer the costs associated with what you've referred to as "upgrade number one," the four miles of new piping connecting the L+G facility to PSE's natural gas distribution system. And upgrade three, which are upgrades to the Frederickson Gate Station.

Is that a correct summary of your testimony?

If not, please explain.

MR. HENDERSON: So I think what I tried to convey in the testimony is we still believe that the upgrades one and three should be included in this rate case. We believe that they are used and useful. But as an alternative, we would accept a deferral mechanism as a way to proceed or settle, settle on this case.

COMMISSIONER RENDAHL: Okay. So, I guess, regardless of whichever proposal we accept. You are familiar with the terms of the settlement agreement and the Tacoma L+G facility in docket UG-151663 that applied a cost allocation, an allocation of cost to the plant?

MR. HENDERSON: Not in great detail, I must

| | Duane Henderson by Commissioner Rendahl |
|----|---|
| 1 | admit. |
| 2 | COMMISSIONER RENDAHL: I have a copy that I |
| 3 | can give to you. |
| 4 | Are you familiar that the fact that there is |
| 5 | an allocation of costs to PSE and to the PSE L+G |
| 6 | MR. HENDERSON: And to the plant, yes. |
| 7 | COMMISSIONER RENDAHL: So regardless of |
| 8 | whether there's a deferral or whether it applies to |
| 9 | rates for these two for upgrade number one and |
| LO | upgrade number three, is the Company intending to apply |
| L1 | the common cost allocator that the Commission approved |
| L2 | as a part of that settlement agreement? |
| L3 | Or if you're not the right witness, who |
| L4 | would be the right witness for that? |
| L5 | MR. HENDERSON: I'm not sure I am the right |
| L6 | witness. It would be the |
| L7 | COMMISSIONER RENDAHL: Looks like Ms. Free |
| L8 | is coming up again. |
| L9 | MS. FREE: May I approach? |
| 20 | JUDGE PEARSON: You may. |
| 21 | MS. FREE: Look, another panel. |
| 22 | COMMISSIONER RENDAHL: We're just having so |
| 23 | much fun. |
| 24 | Do you understand my question? |
| 25 | MS. FREE: I do understand your question. |

| | Susan Free by Commissioner Rendahl | |
|----|--|--|
| 1 | This is like my third strike because I don't | |
| 2 | know the answer, but I think we could get it to you in a | |
| 3 | bench request. | |
| 4 | COMMISSIONER RENDAHL: Okay. So the bench | |
| 5 | request would be, just to be clear, whether this is | |
| 6 | included in rates or as a deferral for upgrade number | |
| 7 | one and upgrade number three whether the company would | |
| 8 | be applying the common cost allocator to those two | |
| 9 | upgrades. | |
| 10 | Is that clear? | |
| 11 | MS. FREE: That makes sense. | |
| 12 | COMMISSIONER RENDAHL: Okay. Thank you. | |
| 13 | That's bench request number | |
| 14 | JUDGE PEARSON: Six. | |
| 15 | COMMISSIONER RENDAHL: 6. Thank you. | |
| 16 | So, Mr. Henderson, that's all I had. You | |
| 17 | got, you know, your lifeline there. | |
| 18 | Oh, I'm sorry. You're not released yet. | |
| 19 | Somebody has a question of you. | |
| 20 | COMMISSIONER BALASBAS: Almost, | |
| 21 | Mr. Henderson. | |
| 22 | So, Mr. Henderson, for upgrades one and | |
| 23 | three, you mentioned in your testimony that they are in | |
| 24 | service today; is that correct? | |
| 25 | MR. HENDERSON: That is correct. | |

COMMISSIONER BALASBAS: Could you describe in more detail how you believe those upgrades are used and useful for your customers today?

MR. HENDERSON: So again, they are in service. Upgrade three might be the easier one to explain, which was primarily upsizing of a gate station on our South Tacoma supply system.

I think as I mentioned in my -- my testimony
that -- that South Tacoma supply system not only -- once
we interconnect with upgrade two being installed,
supplies a high growth area from Tacoma southward down
through JBLM and the DuPont area, a very high growth
area.

Once that increase in the gate station capabilities was installed, we actually saw that the flow from that gate station exceeded the design flow of the previous gate station. The gate station before those upgrades were in effect.

So there, I think, is a clear example where the existing customers are benefitting from that.

In the case of the four mile -- the upgrade number one, which is the four mile pipeline that goes -- extends to the plant location.

As I said, it is currently in service. It is capable of being used. Even though the customer

| | Duane Henderson by Chairman Danner | |
|----|---|--|
| 1 | there isn't ready to receive receive the gas because | |
| 2 | of delays on the plant construction and we believe that | |
| 3 | it meets those requirements of its inservice and is | |
| 4 | capable of being used. | |
| 5 | CHAIRMAN DANNER: So it's capable of taking | |
| 6 | product to and from the L+G facility that's not in | |
| 7 | service. So yet you're saying it is in service. | |
| 8 | MR. HENDERSON: Well, it's connected to the | |
| 9 | gas system. It is pressurized today. And so as soon as | |
| 10 | that customer is ready to either receive gas or put gas | |
| 11 | back into the system, it's it's available and ready | |
| 12 | to go. | |
| 13 | CHAIRMAN DANNER: Okay. Thank you. | |
| 14 | JUDGE PEARSON: Okay. Thank you. The | |
| 15 | next yes, you are excused. | |
| 16 | And Paul Wetherbee is our next witness. | |
| 17 | Please raise your right hand. | |
| 18 | (Sworn) | |
| 19 | JUDGE PEARSON: Okay. Please be seated. | |
| 20 | Looks like just Staff has questions for Mr. Wetherbee. | |
| 21 | CROSS-EXAMINATION | |
| 22 | BY MS. CAMERON-RULKOWSKI: | |
| 23 | Q. Good evening, Mr. Wetherbee. | |
| 24 | A. Good evening. | |
| 25 | Q. I would like to discuss hydro data in power cost | |

| | Paul Wetherbee by Ms. Cameron-Rulkowski | |
|----|--|--|
| 1 | mod | eling. |
| 2 | A. | Okay. |
| 3 | Q. | PSE uses the AURORA model to forecast power |
| 4 | cost | s; correct? |
| 5 | A. | Yes. |
| 6 | Q. | And one of the inputs into the model is |
| 7 | hydr | opower generation; right? |
| 8 | A. | Yes. |
| 9 | Q. | Historically, PSE would run the model for each |
| 10 | year | of hydro data; right? |
| 11 | A. | Mm-hmm. |
| 12 | Q. | And that data now totals 80 years' worth; |
| 13 | corre | ect? |
| 14 | A. | Yes. That's right. |
| 15 | Q. | Now, in this case, PSE is proposing that it use |
| 16 | a single average of hydro generation from those years of | |
| 17 | hydr | o data instead of running the model for each of |
| 18 | thos | e years and generating an average from those model |
| 19 | runs | ; correct? |
| 20 | A. | That's right. |
| 21 | Q. | In your rebuttal testimony, you discuss the |
| 22 | hydr | o capacity logic in the AURORA model and raise the |
| 23 | issu | e that running AURORA results in violation of a |
| 24 | capa | city constraints; correct? |
| 25 | A. | That's correct. |

| | P | aul Wetherbee by Ms. Cameron-Rulkowski |
|----|--|--|
| 1 | Q. | Would you say that overall AURORA software |
| 2 | prod | uces accurate results despite the fact that it may |
| 3 | occa | sionally violate the minimum and capacity |
| 4 | restr | aints? |
| 5 | A. | I think that's generally that's right. But |
| 6 | we do quantify in our rebuttal that there's an | |
| 7 | unde | restimate of the power cost. |
| 8 | Q. | And, actually, I'm going there. You note on |
| 9 | you | can refer to it if you need to. |
| 10 | | You note on page 7 of of your rebuttal, which |
| 11 | is Ex | hibit PKW-34CT. |
| 12 | A. | I'm sorry. |
| 13 | Q. | So that's page 7. |
| 14 | A. | Thank you. |
| 15 | Q. | At lines 9 to 10. |
| 16 | A. | Okay. Thank you. |
| 17 | Q. | Now, you note there that, on average, a capacity |
| 18 | constraint was violated 1.7 percent of total hours; | |
| 19 | right | ? |
| 20 | A. | That's right. |
| 21 | Q. | Do you believe AURORA's hydro capacity violation |
| 22 | rate of 1.7 percent is a valid reason for the single run | |
| 23 | that | PSE is proposing? |
| 24 | A. | I would agree that that's that's small. |
| 25 | Howe | ever, it also you get additional benefits with |

| | Paul Wetherbee by Ms. Cameron-Rulkowski |
|----|---|
| 1 | going with a simplified approach. |
| 2 | One, you remove somebody out out of model |
| 3 | analysis that we had to do and we were able to |
| 4 | consolidate into one model. Open model system. |
| 5 | It also improves the efficiency of running the |
| 6 | model system. |
| 7 | Q. Now, do you think that the difference in power |
| 8 | costs using the 80 runs that Staff is suggesting versus |
| 9 | a single run is entirely due to AURORA's high-capacity |
| 10 | violations? |
| 11 | A. No. There's there's other factors going in |
| 12 | the model analysis for that. |
| 13 | Q. And do you have can you provide the dollar |
| 14 | impact of the of all of the capacity violations in |
| 15 | that series of the 80 runs? |
| 16 | A. I don't have that off the top of my head. |
| 17 | Q. Are you aware are you aware of any ways that |
| 18 | PSE can prevent AURORA from violating the maximum hydro |
| 19 | capacity? |
| 20 | A. In the current piece of software that we're |
| 21 | using, it's and we've researched it and talked with |
| 22 | the folks that make AURORA and there's we can't do |
| 23 | that right with the current system we cannot. |
| 24 | With the new version that comes out, we do |
| 25 | understand there will be a workaround to this problem. |

| | Paul Wetherbee by Ms. Cameron-Rulkowski |
|----|--|
| 1 | Q. And when does that new version come out? |
| 2 | A. I do not know. |
| 3 | Q. Now, you were in a couple of answers back, |
| 4 | you you were alluding to the two-zone run that PSE is |
| 5 | proposing, and this involves running the model twice. |
| 6 | Is that right? |
| 7 | A. That's right. |
| 8 | Q. All right. And this means running the model |
| 9 | once to get the projected power costs and then |
| LO | ultimately to to actually get the forecasted power |
| L1 | costs; is that right? |
| L2 | A. No. The first one is to establish the market |
| L3 | price. |
| L4 | Q. Right. |
| L5 | A. And it is a WEC-wide system. |
| L6 | And the second run is just with the PSE system |
| L7 | using that first run input to establish PSE's power |
| L8 | costs. |
| L9 | Q. That's what I thought I said, but thank you for |
| 20 | clarifying. |
| 21 | Now, you were talking about efficiencies. It's |
| 22 | possible you when you were just talking about |
| 23 | efficiencies, and I think you were talking about with |
| 24 | a two-zone run having to run the model twice for each of |
| 25 | the data years. Is is that right? |

| Λ. | \/aa |
|----|------|
| Α. | Yes |

- Q. All right. Is it possible, however, to use a spreadsheet at the end of the 80 model runs that staff is proposing instead of using the model a second time with each run to calculate the rate your power costs?
- A. Right. That's what we were trying to avoid was use the -- the capacity of the model to -- to calculate some of these contingency reserves type costs which you get at with the two-zone model.

So instead of just doing one run, the old way was to do 80 runs, run through spreadsheets to average -- you know, create one average from those outputs.

- Q. And so what I'm getting at is -- if the company used the spreadsheet, it would be 80 runs and not 160 runs; correct?
- A. It would be 160 runs, because you would have to run it twice for each of the different years.
- Q. Now, if you used the spreadsheet, however, then you would only have to run it -- you wouldn't have to run the model twice for each of the -- each of the hydro years; right?
- A. I'm tracking you. So your assumption -- so the answer to that would be "yes." If you did not also use the model to calculate some of the contingency reserve

| | Paul Wetherbee by Chairman Danner |
|----|---|
| 1 | to calculate cost. So you would go all the way back to |
| 2 | the old way. |
| 3 | MS. CAMERON-RULKOWSKI: Thank you. That's |
| 4 | all my questions. |
| 5 | JUDGE PEARSON: Okay. Any redirect? |
| 6 | MR. KUZMA: No, Your Honor. |
| 7 | JUDGE PEARSON: Okay. Thank you. |
| 8 | Questions from the bench? |
| 9 | CHAIRMAN DANNER: Yeah, I have a question. |
| LO | Mr. Wetherbee, in your rebuttal testimony |
| L1 | you write that the wind turbines have achieved an |
| L2 | availability score, which you say is a measure of their |
| L3 | readiness to produce power, and that score is 97 to |
| L4 | 99 percent. |
| L5 | I was wondering if you could explain that |
| L6 | score in how it's derived, what the criteria are, |
| L7 | et cetera. |
| L8 | MR. WETHERBEE: Boy. A a within the |
| L9 | operations piece so we've queried our options group |
| 20 | and the wind group to pull together that information on |
| 21 | the availability. |
| 22 | I would have to check with with my |
| 23 | colleague, Ron Roberts, on the internal the |
| 24 | calculation of that number. |
| 25 | CHAIRMAN DANNER: Okay. Maybe that is a |

| | William Einstein by Commissioner Rendahl |
|----|--|
| 1 | bench request as well. |
| 2 | JUDGE PEARSON: Number 7. |
| 3 | CHAIRMAN DANNER: All right. Thank you. |
| 4 | JUDGE PEARSON: Okay. I believe that's it. |
| 5 | You are excused. |
| 6 | And the next witness is William Einstein. I |
| 7 | believe we have bench questions for Mr. Einstein. |
| 8 | Raise your right hand. |
| 9 | (Sworn) |
| LO | JUDGE PEARSON: Please be seated. |
| L1 | COMMISSIONER RENDAHL: Good evening, |
| L2 | Mr. Weinstein Mr. Einstein. Excuse me. It's been a |
| L3 | long hearing. Long day. |
| L4 | Okay. So related to the water heater rental |
| L5 | program. |
| L6 | MR. EINSTEIN: Yes. |
| L7 | COMMISSIONER RENDAHL: Okay. So I |
| L8 | understand from the testimony you expect a sale on the |
| L9 | water heater rental program to close after the |
| 20 | conclusion of this rate case unless you have new |
| 21 | information today. |
| 22 | MR. EINSTEIN: Yes, it will conclude after. |
| 23 | We're still in the process of negotiating |
| 24 | the the final details of the sale with the proposed |
| 25 | buver, and then the we expect that it would close. |

| | William Einstein by Commissioner Rendahl |
|----|--|
| 1 | yes, I believe after that. |
| 2 | COMMISSIONER RENDAHL: Okay. So in that |
| 3 | case, how and when does the company propose handling the |
| 4 | outstanding negative reserve of approximately \$188,000 |
| 5 | associated with the amortization of unrecovered |
| 6 | depreciation for the gas conversion burner program, as I |
| 7 | understand they were linked a bit in this case. |
| 8 | MR. EINSTEIN: I would defer that to |
| 9 | Ms. Free, I believe, is to how we're going to account |
| LO | for that. |
| L1 | COMMISSIONER RENDAHL: She is not free. |
| L2 | MR. EINSTEIN: She is here. |
| L3 | COMMISSIONER RENDAHL: Would you mind coming |
| L4 | up? |
| L5 | Do you want me to repeat the question? |
| L6 | MS. FREE: I think I would appreciate it if |
| L7 | you could repeat the question. |
| L8 | COMMISSIONER RENDAHL: Okay. So given that |
| L9 | the sale of the water heater rental program is going to |
| 20 | close after this rate case, how does the company propose |
| 21 | handling the outstanding negative reserve which is about |
| 22 | \$688,000 688, yeah, thousand dollars associated with |
| 23 | the amortization of unrecovered depreciation of the gas |
| 24 | conversion burner program and the initial assumption was |

they would be kind of handled together in this case.

| | Susan Free by Commissioner Rendahl |
|----|--|
| 1 | MS. FREE: I think that negative reserve is |
| 2 | actually in our test year rate base. |
| 3 | And so I'm going to give you two scenarios, |
| 4 | because I don't know that for sure. |
| 5 | If it is, we could remove it at the |
| 6 | compliance filing, as it will be held over in a deferred |
| 7 | account until with the water heaters until that gets |
| 8 | resolved. |
| 9 | If it's not in our rate base, then there's |
| 10 | really nothing that needs to be done. |
| 11 | COMMISSIONER RENDAHL: So I guess maybe this |
| 12 | is a bench request for you all to respond and clarify |
| 13 | the treatment of that. |
| 14 | And that would be bench request 8. |
| 15 | Okay. Mr. Einstein, I still have questions |
| 16 | for you. |
| 17 | CHAIRMAN DANNER: Actually, Ms. Free. |
| 18 | MR. EINSTEIN: We've been tied at the hip |
| 19 | for a while. |
| 20 | COMMISSIONER RENDAHL: I don't think she has |
| 21 | an answer to this one, but you might be surprised. |
| 22 | CHAIRMAN DANNER: No, I have a question. |
| 23 | COMMISSIONER RENDAHL: Oh, you have a |
| 24 | question. |
| 25 | So how many of your current customers have |

| | William Einstein by Commissioner Rendahl |
|----|--|
| 1 | had replacement water heaters installed during the |
| 2 | course of their agreements? Do you know? Roughly. |
| 3 | MR. EINSTEIN: No, I don't know that number |
| 4 | off the top of my head. |
| 5 | COMMISSIONER RENDAHL: Okay. And do you |
| 6 | know, from the data that you gather on this program, how |
| 7 | you determine whether a water heater is replaced or |
| 8 | repaired? Do you have that different data in the |
| 9 | system? |
| 10 | MR. EINSTEIN: Well, we track we track |
| 11 | if a water heater is replaced, we track the time at |
| 12 | which that water heater is replaced; then it becomes |
| 13 | part that new water heater becomes part of the asset |
| 14 | class of those water heaters for that year. |
| 15 | COMMISSIONER RENDAHL: Do you know how long |
| 16 | they are actually repaired or are they just replaced? |
| 17 | Do you know if there's any repaired? |
| 18 | MR. EINSTEIN: Yes, we do do repairs, if |
| 19 | necessary, and a replacement is not required. I don't |
| 20 | know the exact number of how that occurs. But if if |
| 21 | a customer were to call and say something isn't working |
| 22 | correctly and we can make a repair without a |
| 23 | replacement, we would do so. |
| 24 | COMMISSIONER RENDAHL: Okay. So I guess |
| 25 | this will be bench request number nine. If you can give |

| | William Einstein by Commissioner Rendahl |
|----|--|
| 1 | us the number of customers who have had replacement |
| 2 | water heaters installed and also the number of those |
| 3 | that have been repaired over the course of the program. |
| 4 | Does that make sense? |
| 5 | MR. EINSTEIN: The entire life of the |
| 6 | program? |
| 7 | COMMISSIONER RENDAHL: That's a good |
| 8 | question. |
| 9 | MR. EINSTEIN: You are talking 60 years. |
| L0 | COMMISSIONER RENDAHL: Probably the last |
| L1 | 20 years. |
| L2 | MR. EINSTEIN: Okay. |
| L3 | COMMISSIONER RENDAHL: All right. Thank |
| L4 | you. |
| L5 | CHAIRMAN DANNER: Okay. Mr. Einstein, my |
| L6 | question won't take 20 years. |
| L7 | So and it's not a question for Ms. Free, |
| L8 | but basically it's based on Ms. Free's rebuttal |
| L9 | testimony. |
| 20 | So in her rebuttal testimony this is in |
| 21 | regard to Green Direct. She proposes a tracking and |
| 22 | reporting procedure for the Green Direct, and that just |
| 23 | sort of kicked the question to me. |
| 24 | Does the record in this case demonstrate |
| 25 | that the Company's proposed revenue requirement does not |

| | Susan Free by Chairman Danner |
|----|--|
| 1 | include collecting the cost of the Green Direct program |
| 2 | through general rates? |
| 3 | Good thing you stayed. |
| 4 | MS. FREE: We have not the power costs |
| 5 | for the PPAs are included in base rates. The schedule |
| 6 | 139 revenues are not included. And we've also removed |
| 7 | the fixed cost. So those are not included. |
| 8 | CHAIRMAN DANNER: So does that mean that |
| 9 | this program is not self-sufficient? |
| 10 | MS. FREE: I don't believe that's what it |
| 11 | means. The rates were designed over the course of the |
| 12 | program to pay for the cost of the program. |
| 13 | CHAIRMAN DANNER: Over the course? |
| 14 | MS. FREE: Mm-hmm. |
| 15 | CHAIRMAN DANNER: So the fact that the PPAs |
| 16 | are included in base rates isn't I'm I'm having |
| 17 | trouble figuring out how that is not reaching outside of |
| 18 | the program, the program is not self-sufficient. |
| 19 | So help me with that? |
| 20 | MS. FREE: Maybe I can actually refer to Jon |
| 21 | Piliaris. It's my turn to |
| 22 | CHAIRMAN DANNER: Anybody who can answer |
| 23 | that. |
| 24 | MR. PILIARIS: Good evening. |
| 25 | COMMISSIONER RENDAHL: Good evening. |

| | Jon Piliaris by Chairman Danner |
|----|--|
| 1 | CHAIRMAN DANNER: Good evening. |
| 2 | MR. PILIARIS: So the question was again? |
| 3 | Can you clarify? |
| 4 | CHAIRMAN DANNER: Okay. So the question |
| 5 | was: In Ms. Free's testimony, she proposes a tracking |
| 6 | reporting procedures for the Green Direct program. |
| 7 | And my question to Mr. Einstein was: Does |
| 8 | the record demonstrate that the Company's proposed |
| 9 | revenue requirement does not include collecting the |
| 10 | costs of the Green Direct program through general rates? |
| 11 | She punted the question he punted the |
| 12 | question to Ms. Free. Ms. Free answered that: Well, in |
| 13 | fact, there are components, the PPAs, in base rates. |
| 14 | And so I asked the question: Is this |
| 15 | program self-sufficient? And the answer was: Over |
| 16 | time. |
| 17 | And so I'm just wondering if you can help me |
| 18 | understand all that. |
| 19 | MR. PILIARIS: Okay. So as Ms. Free noted, |
| 20 | the cost of the PPAs are included in in the portfolio |
| 21 | costs. |
| 22 | You might recall in 139 there's a credit, an |
| 23 | energy credit. And that's meant to represent the value |
| 24 | of the foregone power that would no longer be used to |
| 25 | serve those 139 customers, redirect customers. Instead |

| | Jon Piliaris by Chairman Danner |
|----|--|
| 1 | they would be used they would be served by the Green |
| 2 | Direct PPAs. |
| 3 | So I believe Ms. Free is correct that we |
| 4 | didn't include 139 revenue in the calculation because we |
| 5 | were not also including the credit as well. |
| 6 | And if you if you look at the cost of the |
| 7 | PPA relative to the cost of the credit, there is a very, |
| 8 | very minor difference between the two. So they are |
| 9 | essentially a push. |
| LO | If truth and beauty were to prevail, we |
| L1 | probably would throw the the 139 schedule rate |
| L2 | revenue into the analysis, and then we would credit |
| L3 | the the credit in 139, and that very small delta |
| L4 | would produce the precise result that the 139 customers |
| L5 | are paying for the entirety of the of the PPA cost, |
| L6 | or at least as close as they are required to under |
| L7 | the 139 tariff. |
| L8 | CHAIRMAN DANNER: So why didn't you? I |
| L9 | mean, truth |
| 20 | MR. PILIARIS: Yeah. I think, honestly |
| 21 | to be very honest about it, it was, I think, an |
| 22 | oversight initially. But as we thought about it, it was |
| 23 | a distinction without any difference at the end of the |
| 24 | day. |

I don't think that it would -- you wouldn't

| | Jon Piliaris by Commissioner Balasbas |
|----|--|
| 1 | even show of a grounding, as an impact to other |
| 2 | customers in their rate. It would literally be that |
| 3 | small. |
| 4 | But for sake of transparency, we would be |
| 5 | happy to include that as part of the compliance filing |
| 6 | to make it transparent and clear that all those revenues |
| 7 | are included and so it's clear how those revenues |
| 8 | match up with the PPA cost. |
| 9 | CHAIRMAN DANNER: All right. Thank you for |
| 10 | the offer. I'm not sure if it's necessary or we'll |
| 11 | see. |
| 12 | MR. PILIARIS: We're open to it. |
| 13 | CHAIRMAN DANNER: Thank you. |
| 14 | COMMISSIONER BALASBAS: So, Mr. Piliaris, |
| 15 | just to follow up on that, though, if the costs of the |
| 16 | PPAs are included in base rates, I mean, is that |
| 17 | effectively, if you will, I guess, like, a one-time |
| 18 | subsidy until the costs of 139 and the rates charged to |
| 19 | 139 customers cover those costs within there? |
| 20 | I mean I'm just trying to understand what |
| 21 | you mean when the cost of PPAs are included in base |
| 22 | rates but the revenues and the credits from schedule 139 |
| 23 | are not. |
| 24 | Because, to me, that seems like you have |

a -- you're not, as you said just a minute ago, maybe

Jon Piliaris by Commissioner Balasbas not showing the full, if you will, akin to a balance sheet of the schedule 139 costs and revenues there.

So I'm just -- so help me out here to, you know, maybe put my mind at ease that by including the cost of the PPAs in base rates that all customers are not subsidizing the 139 customers.

MR. PILIARIS: So maybe the easiest way to think about this -- and this is not the way -- the way it's been modeled.

But if you carved out the energy from the PPA apart from the portfolio, and it's -- it's at the PPA rates that we're paying, and you gross it up for revenue-sensitive taxes, so it's a rate adjusted number, and you compare that against the 139 revenues, then it's clear from that standpoint that the 139 revenues essentially cover the PPA costs.

When you do that, the load associated with serving the 139 are no longer in the portfolio. And when you reduce the load served in the portfolio, you are reducing the cost in the portfolio. And so those costs go away as well.

Now, do the costs that go away equal the cost of those PPAs? No, they are different. They are very different. It's more or less market purchases that are no longer used to serve the remaining load.

| | Jon Piliaris by Commissioner Balasbas |
|----|--|
| 1 | So it's sort of tricky but it's the PPA that |
| 2 | Green Direct customers are in fact covering 100 percent |
| 3 | of their Green Direct costs. It's very similar to the |
| 4 | way conservation works, in that you reduce load from |
| 5 | conservation. |
| 6 | What happens to our our portfolio, |
| 7 | portfolio resources? They reduce. They are reduced and |
| 8 | you're trading the cost of conservation for the avoided |
| 9 | cost of the power in in existing rates. And there's |
| LO | a difference. There's a big difference. |
| L1 | And this goes back to our lost margin |
| L2 | discussions of several rate cases ago. |
| L3 | It's the same concept except we're talking |
| L4 | about power supply displacement rather than conservation |
| L5 | displacement for the same purpose. |
| L6 | JUDGE PEARSON: Thank you very much. |
| L7 | Okay. We'd like Ms. Scanlan to come up now |
| L8 | and take her out of order because it is a follow-up |
| L9 | question on Green Direct. |
| 20 | (Sworn) |
| 21 | JUDGE PEARSON: Okay. Thank you. |
| 22 | CHAIRMAN DANNER: All right. Good evening, |
| 23 | Ms. Scanlan. |
| 24 | So you heard Mr. Piliaris, Ms. Free, and |
| 25 | Mr Finstein Liust wanted to follow up. You heard |

| | Katie Scanlan by Chairman Danner |
|----|---|
| 1 | their explanation of this, and I just want to know is |
| 2 | Staff satisfied with PSE's proposals and does your |
| 3 | recommendation remain that the Company should just work |
| 4 | with stakeholders after the conclusion of this case? |
| 5 | MS. SCANLAN: Yes, my recommendation remains |
| 6 | the same. |
| 7 | I also want to point you to my colleague, |
| 8 | Jing Liu, who also testified on power costs related to |
| 9 | Green Direct. |
| 10 | CHAIRMAN DANNER: Okay. So I will go back |
| 11 | and look at that again. |
| 12 | But, basically, you're satisfied with what |
| 13 | you just heard now that you feel that over time that |
| 14 | this program is self-sufficient and we're not basically |
| 15 | subsidizing the program from general rates? |
| 16 | MS. SCANLAN: Again, my colleague, Jing Liu, |
| 17 | did testify to the power cost portion of that. That is |
| 18 | included in these rates. |
| 19 | COMMISSIONER RENDAHL: So can I just jump in |
| 20 | and say your testimony related to the tracking of the |
| 21 | of costs and the revenues and the need for transparency |
| 22 | and you still, as you said, recommend you still |
| 23 | recommend that there needs to be more process |
| 24 | MS. SCANLAN: Correct. |
| 25 | COMMISSIONER RENDAHL: or discussion? |

| | Ronald Roberts by Ms. Cameron-Rulkowski |
|----|--|
| 1 | MS. SCANLAN: Yes. |
| 2 | JUDGE PEARSON: Thank you. |
| 3 | Okay. The last Company witness is Ronald |
| 4 | Roberts. |
| 5 | (Sworn) |
| 6 | JUDGE PEARSON: Okay. Please be seated. |
| 7 | MR. ROBERTS: First of all, I know nothing |
| 8 | about taxes. |
| 9 | JUDGE PEARSON: Can you turn your microphone |
| LO | on? |
| L1 | MR. ROBERTS: I can probably do that. |
| L2 | JUDGE PEARSON: Okay. And Staff, |
| L3 | Ms. Cameron-Rulkowski, whenever you are ready. |
| L4 | MS. CAMERON-RULKOWSKI: Thank you, Your |
| L5 | Honor. |
| L6 | CROSS-EXAMINATION |
| L7 | BY MS. CAMERON-RULKOWSKI: |
| L8 | Q. Good evening, Mr. Roberts. We're not going to |
| L9 | talk about taxes. Instead I would like to talk about |
| 20 | operating and maintenance expense at Colstrip. |
| 21 | A. Okay. Great. |
| 22 | Q. Colstrip Units 1 and 2 just closed at the end of |
| 23 | the year; right? |
| 24 | A. Correct. Actually, they shut down January 3rd |
| 25 | and 4th, just slightly after the end of '19. |

| | Ronald Roberts by Ms. Cameron-Rulkowski | |
|----|---|---|
| 1 | Q. | Thank you for that clarification. |
| 2 | In this case, PSE shifted over a million dollars | |
| 3 | in O&M costs from Colstrip Units 1 and 2 to Units 3 and | |
| 4 | 4; rig | ht? |
| 5 | A. | Correct. |
| 6 | Q. | And PSE is asking for recovery of these costs; |
| 7 | right | ? |
| 8 | A. | Correct. |
| 9 | Q. | Colstrip 1 and 2 are in a decommissioning phase; |
| 10 | corre | ct? |
| 11 | A. | That is true. |
| 12 | Q. | And so it's true, isn't it, that there is a |
| 13 | porti | on of the common expenses that will continue to be |
| 14 | asso | ciated with Colstrip 1 and 2. For example, expenses |
| 15 | for ro | oads and grounds keeping. |
| 16 | A. | Some small minor expenses, yes. |
| 17 | Q. | Now, I want to discuss Units 3 and 4. |
| 18 | I | Regarding Unit 4, in your Exhibit RJR-3C, you |
| 19 | ment | ion the super heat section of Colstrip Unit 4 and |
| 20 | you - | - you mention that it's showing signs of wear and |
| 21 | degra | adation estimated at \$20 million for replacement; |
| 22 | corre | ect? |
| 23 | A. | Correct. |

A. That is the intention.

Q. And PSE plans to sell Colstrip 4; right?

24

| | Ronald Roberts by Ms. Cameron-Rulkowski | |
|----|--|--|
| 1 | Q. Is it fair to say that these factors will | |
| 2 | influence the actual major maintenance cost for Colstrip | |
| 3 | Units 3 and 4? | |
| 4 | A. They could, but that project has not been | |
| 5 | approved in the budget. So it's something that will | |
| 6 | come later in time and hopefully at post-closing to our | |
| 7 | disposition of Unit 4 so we would have no share in the | |
| 8 | cost of that. | |
| 9 | Q. All right. And so you were just referring to | |
| LO | the sale; correct | |
| L1 | A. Correct. | |
| L2 | Q in the answer you just gave? | |
| L3 | A. Correct. | |
| L4 | CHAIRMAN DANNER: Mr. Roberts, could you | |
| L5 | speak into the microphone? | |
| L6 | MR. ROBERTS: Certainly. Thank you. | |
| L7 | BY MS. CAMERON-RULKOWSKI: | |
| L8 | Q. With regard to to the the super heat | |
| L9 | section replacement and any other issues with Colstrip | |
| 20 | Unit 4, those factors could influence the actual major | |
| 21 | maintenance costs for Colstrip Colstrip Units 3 and | |
| 22 | 4; right? | |
| 23 | A. They could. It could proportionately change our | |
| 24 | share of the costs of that project going forward; so | |
| 25 | that would have an impact, longer term, on the costs. | |

| | , | |
|----|---|--|
| | Ronald Roberts by Ms. Cameron-Rulkowski | |
| 1 | Q. And is it fair to say that that those very | |
| 2 | things could impact the difference between budgeted and | |
| 3 | actual costs? | |
| 4 | A. They could. However, when we do budgets at | |
| 5 | Colstrip, it's usually just a one-year approval. | |
| 6 | And on Units 3 and 4, historically, we've been | |
| 7 | close budget to what we actually spend. | |
| 8 | Now, the closure and potential disposition of | |
| 9 | our interest in Unit 4, depending on what timing that | |
| 10 | happens and the approvals happen with that could impact | |
| 11 | that year. | |
| 12 | Q. All right. You may have just covered this, but | |
| 13 | at any rate, PSE is proposing to recover in rates the | |
| 14 | budgeted amounts from Talen for O&M expenses for | |
| 15 | Colstrip Units 3 and 4 and not the actual amount of O&M | |
| 16 | expense; is that correct? | |
| 17 | A. That's correct. | |
| 18 | Q. I would like you to take a look at JL-15C. Take | |
| 19 | a second to find that | |

21

22

23

24

- a second to find that.
- 20 A. Did you say "JL"?
 - Q. JL-15C. And -- thank you. This is a confidential exhibit. But I'm going to avoid -- try to avoid asking you about confidential information.
 - This exhibit is based on a data request response from the Company; correct?

| | <u> </u> | |
|-----|----------|---|
| 1 A | Correct | • |
| | CULLEC | L |

Q. And as I mentioned, the numbers in the exhibit are confidential.

But in your testimony, you have averaged the variances between budget and actual amounts. And -- and that's at the top of page 17 in your rebuttal testimony, if you need to look.

So you didn't talk about confidential numbers in your testimony, but you provided an average; correct?

- A. Correct.
- Q. All right. I want to ask you about a specific variance and I want to ask you about the percentage of the variance so that we don't disclose the amounts.

So I want you to please look at the -- at the variance for Colstrip Units 3 and 4 for the year 2017.

Are you there?

- A. Yes.
- Q. Now, this amount is significantly more than the -- than the average that you calculated and you used in your testimony; right?
 - A. Correct.
- Q. All right. Now, can we talk about -- without -- without violating confidentially, can we talk about what this average -- I'm sorry, about what this percentage variance is?

| | Ronald Roberts by Ms. Cameron-Rulkowski | |
|----|--|--|
| 1 | A. Yes. | |
| 2 | Q. All right. So it looks like the variance | |
| 3 | between the budgeted amount and the actual amount is | |
| 4 | about is about well, it looks like the the | |
| 5 | variance represents an actual amount that is about | |
| 6 | 20 percent more than the budgeted amount; is that fair? | |
| 7 | A. That is close; yes. | |
| 8 | Q. Thank you. I don't have any further questions. | |
| 9 | JUDGE PEARSON: Thank you. | |
| LO | Any redirect? | |
| L1 | MR. KUZMA: No, Your Honor. | |
| L2 | JUDGE PEARSON: Okay. Do we have any | |
| L3 | questions from the bench for this witness? Nope. Okay. | |
| L4 | You're excused. Thank you. | |
| L5 | MR. ROBERTS: Thank you. | |
| L6 | JUDGE PEARSON: Next we will call staff | |
| L7 | witness, Chris McGuire. | |
| L8 | (Sworn) | |
| L9 | JUDGE PEARSON: Please be seated. | |
| 20 | Just have some bench questions for you, | |
| 21 | Mr. McGuire. | |
| 22 | COMMISSIONER BALASBAS: Good evening. | |
| 23 | MR. McGUIRE: Good evening. | |
| 24 | COMMISSIONER BALASBAS: So in your response | |
| 25 | testimony you suggest that practical implication for D&R | |

| | Chris McGuire by Commissioner Balasbas |
|----------------------|--|
| 1 | costs associated with Colstrip Units 3 and 4 is a |
| 2 | tracking and true-up mechanism; is that correct? |
| 3 | MR. McGUIRE: That's correct. |
| 4 | COMMISSIONER BALASBAS: So why not do |
| 5 | that why not establish that tracking mechanism now in |
| 6 | this proceeding versus waiting until a future |
| 7 | proceeding? |
| 8 | MR. McGUIRE: The reason why we didn't make |
| 9 | that recommendation in this proceeding is because we |
| 10 | believed that it was dependent on the Commission |
| 11 | interpreting it was dependent upon a specific |
| 12 | interpretation of CETA. |
| 13 | And until the Commission makes that |
| 14 | interpretation, we believed that it was inappropriate to |
| 15 | force something upon the Commission that maybe the |
| 16 | |
| | Commission didn't want. |
| 17 | Commission didn't want. CHAIRMAN DANNER: So specifically what in |
| 17 18 | |
| | CHAIRMAN DANNER: So specifically what in |
| 18 | CHAIRMAN DANNER: So specifically what in CETA what is the discretion that we have or the |
| 18 19 | CHAIRMAN DANNER: So specifically what in CETA what is the discretion that we have or the uncertainty that we have? |
| 18 19 20 | CHAIRMAN DANNER: So specifically what in CETA what is the discretion that we have or the uncertainty that we have? MR. McGUIRE: There are a couple of things |
| 18 19 20 21 | CHAIRMAN DANNER: So specifically what in CETA what is the discretion that we have or the uncertainty that we have? MR. McGUIRE: There are a couple of things that are uncertain. |
| 18 19 20 21 | CHAIRMAN DANNER: So specifically what in CETA what is the discretion that we have or the uncertainty that we have? MR. McGUIRE: There are a couple of things that are uncertain. One of them is CETA requires that coal-fired |

D&R is typically recovered through depreciation over the life of an asset. But CETA allows for recovery of D&R beyond 2025.

There's also a question about whether or not the term "prudently incurred" means something specific.

One could interpret the term "prudently incurred" to -- to be a past-tense word. So D&F -- that the Commission has to allow all prudently incurred D&R to be recovered.

Well, decommissioning and remediation costs typically don't happen until after a facility has closed.

So if decommissioning and remediation costs aren't going to occur until after 2025, and the costs must be prudently incurred in order to be recovered through rates, there's an argument that maybe we can't recover decommissioning and remediation costs before they're prudently incurred, i.e., before 2025.

But, again, that explanation depends on a specific interpretation of a term within CETA that may be incorrect. "Prudently incurred" may not actually refer to costs beyond 2025.

That's it.

CHAIRMAN DANNER: So we don't -- we don't know what the closure date -- even though we know what

| Chris McGuire by Commissioner Balasbas |
|--|
| the deadline for closure is, we don't know the closure |
| date. |

So, I mean, are we going to be ready to, you know, when the time comes when the decommissioning of the remediation costs start that we'll be ready to track them?

MR. McGUIRE: That's a good question.

If, for example, the facility were closed tomorrow, it may be problematic not to have some tracking and true-up mechanism in place which argues for potentially setting up a tracking and true-up mechanism now to protect against the possibility that the plant just closes much earlier than we thought.

It's -- I wouldn't say that we would be in a particularly precarious position at that point. Because if we do nothing now through rates, the company is recovering decommissioning and remediation costs. And it is -- it is accumulating a reserve for decommissioning and remediation costs, and that will exist when facility is closed.

And at that point we're just left with the question of what to do with the amount -- the estimated amount that has not yet been recovered, and at that point you could set up a mechanism to deal with that situation.

| CHAIRMAN DANNER: Another option is the |
|---|
| while Puget is not using the power from Colstrip, that |
| Colstrip continues to operate. And so under that |
| scenario, D&R costs might be pushed out. So, basically, |
| your recommendation is just wait? |

MR. McGUIRE: Yes. My recommendation is to wait because there are a number of uncertainties. The one you just referred to being one of them. The one you referred to previously. The early closure is another one. The actual amount of -- of decommissioning and remediation cost is another one.

PSE's estimates of decommissioning or remediation are -- there's a wide range of potential costs associated with D&R.

I think -- well, this is why I had recommended that PSE submit a plan in its next general rate case so that we could think a little bit more carefully about how to handle this issue and allow the company a little bit more time to narrow -- narrow down the range of potential costs, as well as the availability of certain liabilities, like, production tax credits to offset some of those costs. There's just a lot of questions. And a little bit of time, I think, would be helpful. So that -- that the Company and other interested parties could try to think of a solution.

| | Chris McGuire by Mr. Kuzma |
|----|---|
| 1 | CHAIRMAN DANNER: Thank you very much. |
| 2 | JUDGE PEARSON: Is that it? |
| | |
| 3 | Thank you, Mr. McGuire. |
| 4 | Mr. McGuire, on that? |
| 5 | MR. McGUIRE: While I have the floor, |
| 6 | there's a bunch of chocolate over there by the door and |
| 7 | I hope to say that before I got questioned so I could |
| 8 | distract you from the content of my responses. But |
| 9 | anyone who wants chocolate. |
| 10 | MR. KUZMA: I have a few follow-up |
| 11 | questions. It won't take long. |
| 12 | CROSS-EXAMINATION |
| 13 | BY MR. KUZMA: |
| 14 | Q. So is your is your concern with respect to a |
| 15 | tracking mechanism or is your concern with respect to |
| 16 | allowing recovery in rates of D&R costs? |
| 17 | A. I think my concern is more the former. It's |
| 18 | related to what seems like might be a need for a |
| 19 | tracking and true-up mechanism to in order for PSE to |
| 20 | comply with CETA. |
| 21 | I'm not particularly worried about recovery. I |
| 22 | just want to make sure that, essentially, PSE complies |
| 23 | with with CETA. |
| 24 | Q. Okay. And then you had mentioned the prudently |
| 25 | incurred being a precondition to inclusion in the |

Chris McGuire by Mr. Kuzma

| Α. | Inclusion in well, both, actually. | The |
|---------|------------------------------------|-----|
| latter, | , I think, is less of a concern. | |

I think that's not -- that's not the way I would interpret the statute to preclude the company from recovering decommissioning and remediation costs before they are actually incurred. That's not -- that's not reasonable because ordinarily we would expect customers that use a facility to contribute to the decommissioning and remediation costs, so why wait until those expenses -- those costs are incurred to recover them from rate payers.

So it's -- that interpretation doesn't -doesn't make a lot of sense to me. So it's, again, not
the inclusion in rates that worries me as much as the
appearance that PSE can only collect exactly the dollar
amount of decommissioning and remediation expenses that
it incurs.

And if that's actually true, and if the

Commission interprets the statute in that way, that

we -- that PSE can't collect any more or any less than

the prudently incurred costs, then I think we would need

a tracking and true-up mechanism to ensure that that

actually happens. But, again, that's dependent upon an

interpretation of the statute.

| Chris | McGuire | bγ | Mr. | Kuzma |
|-------|---------|----|-----|-------|
|-------|---------|----|-----|-------|

- Q. Right. And the statute says -- and the part that you're mentioning -- the Commission shall allow -- nondiscretionary "shall" allow in electric rates all decommissioning and remediation costs prudently incurred by an investor-owed utility for a coal-fired resource?
 - A. Correct.

- Q. So if it's incurred and it's prudently incurred, the decommission or remediation cost, then the Commission shall allow it in rates?
- A. Yes. It shall allow it in rates, but is it prudently incurred before it is incurred?

Are we talking about the actual costs, the cash flow associated with decommissioning and remediation or are we talking about expenses that the company currently books?

- Q. But then I thought Chairman Danner mentioned a tracking and true-up mechanism where the prudence could be determined sort of after the fact and could be tracked and then the prudence determination could be made and then trued-up accordingly to whether those expenses were or were not prudently incurred?
- A. Are you asking this question with the assumption that all decommissioning and remediation costs -- all projected decommissioning and remediation costs are collected over the life of the asset or beyond the

| | Jason Ball by Commissioner Rendahl |
|----|--|
| 1 | closure of the asset? |
| 2 | Q. It would be collected during the life and after |
| 3 | the life. |
| 4 | A. Yes. Then I don't see why that would be an |
| 5 | issue. |
| 6 | Q. Okay. Thank you. |
| 7 | JUDGE PEARSON: Thank you, Mr. McGuire. |
| 8 | Ms. Cameron-Rulkowski, it doesn't look like |
| 9 | had you any redirect? |
| 10 | MR. CALLAGHAN: No, Your Honor. |
| 11 | JUDGE PEARSON: Next witness is Christina |
| 12 | Stewart. Jason Ball, sorry. |
| 13 | MS. STEWART: You don't need me. Sorry. |
| 14 | JUDGE PEARSON: Please raise your right |
| 15 | hand. |
| 16 | (Sworn) |
| 17 | COMMISSIONER RENDAHL: Good evening, |
| 18 | Mr. Ball. |
| 19 | MR. BALL: Good even. |
| 20 | COMMISSIONER RENDAHL: So I assume you have |
| 21 | read Mr. Piliaris' rebuttal testimony. |
| 22 | MR. BALL: I have. |
| 23 | COMMISSIONER RENDAHL: So in his testimony |
| 24 | he testifies that the company accepts the energy |
| 25 | projects proposal to spread the residential rates |

| | Jason Ball by Commissioner Rendahl |
|----|--|
| 1 | rate increases equally across the two existing energy |
| 2 | blocks and is open to exploring an expansion of the |
| 3 | first block energy rate from 600 kilowatt hours to |
| 4 | 800 kilowatt hours. |
| 5 | Do you also support exploring that |
| 6 | modification? |
| 7 | MR. BALL: I do. |
| 8 | COMMISSIONER RENDAHL: Okay. And so |
| 9 | should is it your recommendation that the Commission |
| 10 | implement that proposal in this case or to consult with |
| 11 | a low income advisory group or CRAG to review and make a |
| 12 | proposal in a future rate case? |
| 13 | MR. BALL: I believe consulting with the |
| 14 | CRAG would be a wise choice. |
| 15 | COMMISSIONER RENDAHL: Okay. Do you have |
| 16 | concerns about this change? |
| 17 | MR. BALL: Not necessarily. The original |
| 18 | 600-kilowatt-hour block was used to share equitably the |
| 19 | low cost of power across the region. |
| 20 | If we're going to set a new block for to |
| 21 | address issues if we're going to set a new block |
| 22 | based upon a fundamentally different premise, then I |
| 23 | would just suggest that we spend a little bit more time |
| 24 | researching and understanding the fundamentals that led |
| 25 | to that block number. |

| | Jason Ball by Commissioner Rendahl |
|----|--|
| 1 | COMMISSIONER RENDAHL: And whether they |
| 2 | still hold? |
| 3 | MR. BALL: Correct. And whether 600 |
| 4 | kilowatt hours is the correct amount for the first block |
| 5 | as a lifeline rate. |
| 6 | COMMISSIONER RENDAHL: Okay. Thank you. |
| 7 | That's all I have. |
| 8 | JUDGE PEARSON: That's it. |
| 9 | Thank you, Mr. Ball. You're excused. |
| 10 | And the next witness is Glen Watkins for |
| 11 | Public Counsel. |
| 12 | MS. GAFKEN: Judge Pearson, it is |
| 13 | approaching 10 o'clock on the east coast, so I had told |
| 14 | him that he could drop off. |
| 15 | JUDGE PEARSON: Okay. We're fine. Okay. |
| 16 | We're fine. |
| 17 | MS. GAFKEN: Do you want to talk to him |
| 18 | tomorrow? |
| 19 | JUDGE PEARSON: We're going to finish |
| 20 | tonight. If we need anything we can issue a bench |
| 21 | request after the fact. |
| 22 | So next is Shawn Collins from The Engery |
| 23 | Project. |
| 24 | MR. FFITCH: Your Honor, while Mr. Collins |
| 25 | is coming up, do you want me to introduce the witness? |

| | | Shown Colling by Mr. Efitab |
|----|--------|---|
| | | Shawn Collins by Mr. Ffitch |
| 1 | | JUDGE PEARSON: If you would like to that's. |
| 2 | | MR. FFITCH: After you swear him. |
| 3 | | (Sworn in) |
| 4 | | EXAMINATION |
| 5 | BY M | IR. FFITCH: |
| 6 | Q. | Good evening, Mr. Collins. |
| 7 | A. | Good evening. |
| 8 | Q. | Could you please state your name and spell your |
| 9 | last ı | name for the record? |
| LO | A. | Shawn Collins, C-o-l-l-i-n-s. |
| L1 | Q. | What is your current position? |
| L2 | A. | Director of The Engery Project at the |
| L3 | Oppo | ortunity Council. |
| L4 | Q. | Have you filed testimony in this case that's |
| L5 | been | marked SMC-1T and SMC-2? |
| L6 | A. | I have. |
| L7 | | MR. FFITCH: And, Your Honor, those have |
| L8 | been | admitted into the record by stipulation. |
| L9 | BY M | IR. FFITCH: |
| 20 | Q. | Mr. Collins, do you have any changes or |
| 21 | corre | ections to your testimony? |
| 22 | A. | No, I do not. |
| 23 | | MR. FFITCH: Your Honor, Mr. Collins is |
| 24 | availa | able for questions. |
| 25 | | JUDGE PEARSON: Thank you. |

| | Shawn Collins by Chairman Danner |
|----|--|
| 1 | CHAIRMAN DANNER: Good evening, Mr. Collins. |
| 2 | The Energy Project proposed the Commission |
| 3 | order residential rate increases to be spread equally |
| 4 | across energy uses blocks but does not provide a |
| 5 | calculation to illustrate the recommendation. |
| 6 | What's your proposed method for equal |
| 7 | percentage allocations? |
| 8 | MR. COLLINS: We did not specify the |
| 9 | methodology there. My expectation was that potentially |
| LO | that would be discussed similarly to the block rate |
| L1 | adjustment with with a CRAG. So, specifically, I do |
| L2 | not have a recommendation for that. |
| L3 | CHAIRMAN DANNER: Okay. Do you agree with |
| L4 | Puget's understanding of this agreement with your |
| L5 | proposal? |
| L6 | MR. COLLINS: We do. Our concern, |
| L7 | primarily, was focused on the the the tier 2 a |
| L8 | third-tier addition or higher usage adding the costs for |
| L9 | that. So we're in agreement with with Piliaris' |
| 20 | trial testimony. |
| 21 | CHAIRMAN DANNER: Let me ask another |
| 22 | question. This is among your recommendations. You |
| 23 | propose that Puget develop and submit a disconnection |
| 24 | reduction plan for approval. |

Can you expand a little bit on both process

| | Shawn Collins by Chairman Danner |
|----|--|
| 1 | and the timeline for this kind of plan? |
| 2 | MR. COLLINS: Sure. Based on the data |
| 3 | requests that we submitted, it appears that as much as |
| 4 | 50 percent of disconnections are prevented from the last |
| 5 | knock and from collection for payments at the time of |
| 6 | disconnection. |
| 7 | And so our concern is with the policies |
| 8 | for for disconnections and wanting to minimize those |
| 9 | to the extent possible. |
| 10 | And so for us, I think as I understood, |
| 11 | within a year of the closure of this rate case would be |
| 12 | acceptable to us in terms of formulating a plan, the |
| 13 | sooner the better, in my opinion, though. |
| 14 | CHAIRMAN DANNER: Okay. That's all I had. |
| 15 | JUDGE PEARSON: Thank you. You're excused. |
| 16 | And our last witness is Brian Collins. |
| 17 | If you raise your right hand. |
| 18 | (Sworn) |
| 19 | JUDGE PEARSON: Okay. Please be seated. |
| 20 | Mr. Pepple, you don't have a microphone. I don't know |
| 21 | if you want to introduce your witness. |
| 22 | Go ahead. |
| 23 | EXAMINATION |
| 24 | BY MR. COLEMAN: |
| 25 | Q Good evening Mr Collins |

| | Brian Collins by Mr. Coleman and Ms. Gafken |
|----|---|
| 1 | A. Good evening. |
| 2 | Q. Are you the same Brian Collins who caused to be |
| 3 | filed Exhibit BCC-1T in this case? |
| 4 | A. I am. |
| 5 | Q. Do you have any changes or corrections to that |
| 6 | document? |
| 7 | A. I do not. |
| 8 | Q. If you were to be asked those questions today, |
| 9 | would you provide the same answers? |
| 10 | A. I would. |
| 11 | MR. COLEMAN: Your Honor, Mr. Collins is |
| 12 | available for cross-examination. |
| 13 | JUDGE PEARSON: Thank you. |
| 14 | Ms. Gafken. |
| 15 | MS. GAFKEN: Thank you. |
| 16 | CROSS-EXAMINATION |
| 17 | BY MS. GAFKEN: |
| 18 | Q. Good evening, Mr. Collins. |
| 19 | A. Good evening. |
| 20 | Q. Would you please turn to your cross-answering |
| 21 | testimony BCC-1T, page 5, and go to lines 8 through 10. |
| 22 | A. Okay. I'm there. |
| 23 | Q. There you state: "The direct assignment of |
| 24 | costs best reflects cost causation and that direct |
| 25 | assignment should be used when information is |

| | <u> </u> |
|----|--|
| | Brian Collins by Ms. Gafken |
| 1 | available"; correct? |
| 2 | A. That is correct. |
| 3 | Q. Further down the page further down the page, |
| 4 | beginning at line 27 and continuing on to page 6, |
| 5 | line 2, you quote the Maverick [verbatim] manual on |
| 6 | direct costs; correct? |
| 7 | A. That's correct. |
| 8 | Q. At page of 6, lines 10 through 15, you discuss |
| 9 | PSE's use of its GIS system to determine costs |
| LO | associated with its special contractors; correct? |
| L1 | A. That's correct. |
| L2 | Q. Did you hear Mr. Taylor's testimony earlier in |
| L3 | the hearing where Mr. Taylor testified that the Mains |
| L4 | serve a multitude of customers and that special customer |
| L5 | contracts were allocated a portion of the Mains? |
| L6 | A. I did hear that earlier today, yes. |
| L7 | Q. PSE's GIS study did not result in a direct |
| L8 | assignment of dedicated facilities but rather it |
| L9 | resulted in an allocation of common use mains that |
| 20 | served special contract customers among others: correct? |

MR. PEPPLE: I'm going to object to that I don't think that was Mr. Taylor's testimony. I think that mischaracterizes what he said.

MS. GAFKEN: I'm not asking about

Mr. Taylor's testimony. I'm asking Mr. Collins to

21

22

23

24

| | Bria | n Collins by Ms. Gafken |
|----|--------------|---|
| 1 | evaluate th | e premise of the testimony. |
| 2 | MR | . COLLINS: I guess I would disagree with |
| 3 | you. | |
| 4 | JUE | DGE PEARSON: Hold on a second. |
| 5 | Mr. | Pepple, did you want to respond to that? |
| 6 | The microp | phone. |
| 7 | MR | . PEPPLE: It just died. |
| 8 | As | long as Mr. Collins understand that he's |
| 9 | not adoptin | g Mr. Taylor's testimony, that he's he's |
| 10 | not speakir | ng to what Mr. Taylor testified to. |
| 11 | JUE | DGE PEARSON: Okay. Is that clear, |
| 12 | Mr. Collins' | ? |
| 13 | MR | . COLLINS: Yes. |
| 14 | JUE | OGE PEARSON: Go ahead, Ms. Gafken, when |
| 15 | you get you | ur mic back. |
| 16 | BY MS. GA | AFKEN: |
| 17 | Q. I'll re | eask the question. |
| 18 | A. Okay | ·. |
| 19 | Q. PSE' | 's GIS study did not result in a direct |
| 20 | assignmer | nt of dedicated facilities, but rather it |
| 21 | resulted in | an allocation of common use mains that |
| 22 | served spe | ecial contract customers among others; correct? |
| 23 | A. I wou | lld agree that those mains do serve other |
| 24 | customers | besides those special contract customers. |
| 25 | O And | a portion of those mains was allocated in |

| | | Brian Collins by Ms. Garken |
|----|-------|--|
| 1 | the s | pecial contract customers; correct? |
| 2 | A. | That's my understanding. |
| 3 | Q. | The next two questions I'm asking about your |
| 4 | unde | erstanding of PSE's GIS study. |
| 5 | | PSE did not use a similar systemwide GIS |
| 6 | analy | ysis applied to the entire utility, did it? |
| 7 | A. | I'm not aware of them doing such an analysis. |
| 8 | Q. | And PSE did not use a similar GIS analysis to |
| 9 | trace | other customer classes from the meter to city |
| 10 | gate | but only applied that analysis to special contract |
| 11 | cust | omers; correct? |
| 12 | A. | It's my understanding they applied it only to |
| 13 | the s | pecial contract class and no other customer |
| 14 | class | es. |
| 15 | Q. | And you did not conduct a separate GIS analysis |
| 16 | with | respect to special contract customers other |
| 17 | cust | omers or the entire utility, did you? |
| 18 | A. | I did not. |
| 19 | Q. | Thank you. Those are my questions. |
| 20 | | JUDGE PEARSON: Thank you. Is there any |
| 21 | redir | ect? |
| 22 | | MR. COLEMAN: No, Your Honor. |
| 23 | | JUDGE PEARSON: Okay. Then any questions |
| 24 | from | the bench for Mr. Collins? |
| 25 | | Okay. Then you are excused. Thank you. |

| 1 | MR. COLLINS: Thank you very much. |
|----|--|
| 2 | JUDGE PEARSON: That brings us to the end of |
| 3 | our witness list. |
| 4 | Is there anyone else you have questions for? |
| 5 | No. Okay. |
| 6 | So there's just a few housekeeping matters |
| 7 | that I want to address before we adjourn. |
| 8 | Would the parties like me to I have all |
| 9 | the bench requests recorded here, I could go over them |
| 10 | or I could send them in an e-mail to all the parties? |
| 11 | MS. CARSON: E-mail would be good. |
| 12 | JUDGE PEARSON: Okay. I will do that, |
| 13 | because it would probably take ten minutes to read these |
| 14 | into the record. All right. |
| 15 | Is there anything else? |
| 16 | Oh, Ms. Gafken, public comments. |
| 17 | MS. GAFKEN: Yes. I was just going to chime |
| 18 | up about that. |
| 19 | So usually I request about a week. In this |
| 20 | case I would like to request just a tad more |
| 21 | JUDGE PEARSON: That's fine. |
| 22 | MS. GAFKEN: than that. |
| 23 | So I would propose Tuesday, February 18th. |
| 24 | JUDGE PEARSON: Okay. |
| 25 | MS. GAFKEN: Thank you. |
| | |

| 1 | JUDGE PEARSON: That works. And we will |
|----|---|
| 2 | designate that as a bench exhibit. It looks like it |
| 3 | will be bench Exhibit 11. So we'll expect to receive |
| 4 | that on the 18th. |
| 5 | And, actually, I would like to just take a |
| 6 | couple of minutes to consult with the Commissioners |
| 7 | before we get to the post-hearing briefs. |
| 8 | So we'll be off the record for just a couple |
| 9 | of minutes. |
| 10 | (A recess was taken from 6:57 p.m. to 7:01 p.m.) |
| 11 | JUDGE PEARSON: Okay. Let's be back on the |
| 12 | record. We were just having a conversation about page |
| 13 | limits for briefs. |
| 14 | For initial briefs, which are due on |
| 15 | March 17th, we'll allow the full 60 pages. And then for |
| 16 | reply briefs, which are due on March 27th, we're going |
| 17 | to have a 20-page limit. |
| 18 | Are there any any questions from the |
| 19 | parties? |
| 20 | MS. CARSON: So that includes what's allowed |
| 21 | with the consolidation of the additional dockets? |
| 22 | JUDGE PEARSON: Correct. |
| 23 | MS. CARSON: Because I think 60 is usually |
| 24 | the standard. |
| 25 | JUDGE PEARSON: It is the standard. |
| | |

| 1 | Sometimes we go shorter than that, though. |
|----|--|
| 2 | MS. CARSON: I would just say with a fully |
| 3 | contested case, we have no settlement here. |
| 4 | JUDGE PEARSON: How many extra pages do you |
| 5 | think you need for the accounting petitions? |
| 6 | MS. CARSON: Maybe ten extra pages. |
| 7 | JUDGE PEARSON: You mean just in the initial |
| 8 | briefs? |
| 9 | MS. CARSON: I think 10 in the initial brief |
| 10 | and 5. So it would be 25 in the reply brief. |
| 11 | MS. CAMERON-RULKOWSKI: So Staff has an |
| 12 | alternative recommendation. We would need 5. We would |
| 13 | suggest 5 in the initial brief and 3 in the reply. But |
| 14 | it's up to you. |
| 15 | MS. CARSON: Staff is primarily responding |
| 16 | to the Company and we respond to eight different |
| 17 | parties. |
| 18 | JUDGE PEARSON: Okay. We'll go with 70 and |
| 19 | 25. |
| 20 | MS. CARSON: Thank you. |
| 21 | JUDGE PEARSON: Okay. Is there anything |
| 22 | else that we need to address tonight? |
| 23 | Okay. Hearing nothing. Thank you all, |
| 24 | parties, the witnesses, and the representatives, we |
| 25 | really appreciate your willingness to push through and |
| | |

| 1 | get this finished in one day. And we are adjourned. |
|----|---|
| 2 | Thank you. |
| 3 | |
| 4 | (The hearing adjourned at 7:04 p.m.) |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| LO | |
| L1 | |
| L2 | |
| L3 | |
| L4 | |
| L5 | |
| L6 | |
| | |
| L7 | |
| L8 | |
| L9 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |
| 25 | |
| | |

| 1 | CERTIFICATE |
|--|--|
| 2 | |
| 3 | |
| 4 | STATE OF WASHINGTON) |
| 5 |) ss. COUNTY OF KITSAP) |
| 6 | |
| 7 | I, CRYSTAL R. McAULIFFE, a Certified Court |
| 8 | Reporter in and for the State of Washington, do hereby |
| 9 | certify that the foregoing transcript of the WUTC |
| 10 | Evidentiary Hearing, having been reported on |
| 11 | FEBRUARY 6, 2020, is true and accurate to the best of my |
| 12 | knowledge, skill and ability. |
| 13 | IN WITNESS WHEREOF, I have hereunto set my hand |
| | |
| 14 | and seal this 19th day of February, 2020. |
| | and seal this 19th day of February, 2020. |
| 15 | and seal this 19th day of February, 2020. |
| 15 16 | and seal this 19th day of February, 2020 |
| 15 16 17 | and seal this 19th day of February, 2020. ————————————————————————————————— |
| 14 15 16 17 18 | |
| 15 16 17 18 19 | |
| 15 16 17 18 19 20 | |
| 15 16 17 18 19 20 21 | |
| 15 16 17 18 19 20 21 22 23 | |
| 15 16 17 18 19 20 21 22 23 24 | |
| 15 16 17 18 19 20 21 22 23 | |