## Docket Nos. UE-240004, UG-240005, and UE-230810 (Consolidated) - Vol. III

# WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy

November 5, 2024



1325 Fourth Avenue, Suite 1840 Seattle, Washington 98101 Bellingham | Everett | Tacoma | Olympia | Yakima | Spokane Seattle 206.287.9066 Tacoma 253.235.0111 Eastern Washington 509.624.3261 <u>www.buellrealtime.com</u> email: info@buellrealtime.com

#### WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy

|   |          |   | Dama 200 |
|---|----------|---|----------|
|   | Page 286 |   | Page 288 |
| BEFORE THE WASHINGTON<br>UTILITIES AND TRANSPORTATION COMMISSIO   | N        |   |          |
|   |          | FOR JOINT ENVIRONMENTAL ADVOCATES:  |          |
| WASHINGTON UTILITIES AND )<br>TRANSPORTATION COMMISSION, )  |          | JAN E. HASSELMAN<br>4 Earthjustice  |          |
| )<br>Complainant, )   |          | 810 Third Avenue<br>5 Suite 610   |          |
| ) DOCKETS UE-240004 and<br>v. ) UG-240005   |          | 6 Seattle, Washington 98104<br>6 206.343.7340   |          |
| ) (Consolidated)<br>PUGET SOUND ENERGY, )   |          | jhasselman@earthjustice.org   |          |
| )<br>Respondent. )  |          | JIM DENNISON<br>8 Sierra Club   |          |
| )   |          | jim.dennison@sierraclub.org   |          |
| In the Matter of the Petition )   |          | 10 FOR FEDERAL EXECUTIVE AGENCIES:<br>11 RITA M. LIOTTA   |          |
| of ) DOCKET UE-230810   |          | US Navy   |          |
| PUGET SOUND ENERGY )  |          | 12 1 Avenue Of The Palms Avenue<br>Suite 161  |          |
| Petitioner, )   |          | 13 San Francisco, California 94130<br>415.671.9187  |          |
| For an Accounting Order )<br>Authorizing deferred )   |          | 14 rita.m.liotta.civ@us.navy.mil  |          |
| accounting treatment of ()<br>purchased power agreement ()  |          | FOR AWEC:   |          |
| expenses pursuant to RCW )<br>80.28.410 )   |          | SOMMER MOSER<br>17 CORINNE OLSON  |          |
|   |          | Davison Van Cleve PC  |          |
| EVIDENTIARY HEARING   |          | Suite 430   |          |
|   |          | 19         Portland, Oregon 97214           503.241.7242  |          |
| Pages 286 - 370   |          | 20 sjm@dvclaw.com<br>21   |          |
|   |          | FOR THE ENERGY PROJECT:   |          |
| Lacey, Washington   |          | YOCHI ZAKAI<br>23 SETH GOLDMAN  |          |
| DATE TAKEN: November 5, 2024  |          | 24 Shute, Mihaly & Weinberger, LLP<br>24 396 Hayes Street   |          |
| REPORTED BY: Andrea L. Clevenger, RPR, CCR #30  | 941      | San Francisco, California 94102   |          |
|   |          | 25 415.552.7272   |          |
|   | Page 287 |   | Page 289 |
| 1 APPEARANCES   |          | 1 APPEARANCES   |          |
| 2 FOR THE COMMISSION:<br>3 Chair David Danner   |          | 2<br>FOR NUCOR STEEL:   |          |
| Operation of the Devial I   |          |   |          |
| 4 Commissioner Ann Rendahl  |          | 3   |          |
| 4 Commissioner Milt Doumit  |          | 3 DAMON E. XENOPOULOS<br>4 LAURA BAKER  |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6   |          | 3 DAMON E. XENOPOULOS<br>4 LAURA BAKER<br>Stone Mattheis Xenopoulos & Brew, PC<br>5 1025 Thomas Jefferson Street NW   |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:  |          | 3 DAMON E. XENOPOULOS<br>4 LAURA BAKER<br>Stone Mattheis Xenopoulos & Brew, PC<br>5 1025 Thomas Jefferson Street NW<br>Washington, DC 20007<br>6 202.342.0800   |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6 James E. Brown, II<br>7 Bijan Hughes<br>8   |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER<br>Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW<br>Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com   |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6 James E. Brown, II<br>7 Bijan Hughes<br>8 For PUGET SOUND ENERGY:<br>9  |          | <ul> <li>DAMON E. XENOPOULOS</li> <li>LAURA BAKER<br/>Stone Mattheis Xenopoulos &amp; Brew, PC</li> <li>1025 Thomas Jefferson Street NW<br/>Washington, DC 20007</li> <li>202.342.0800<br/>202.342.0807 Fax</li> <li>dex@smxblaw.com</li> <li>FOR FRED MEYER:</li> <li>KURT J. BOEHM</li> </ul>   |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6 James E. Brown, II<br>7 Bijan Hughes<br>8 For PUGET SOUND ENERGY:<br>9 SHEREE CARSON<br>10 DAVID STEELE   |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM<br>Boehm, Kurtz & Lowry       10     36 East Seventh Street  |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6 James E. Brown, II<br>7 Bijan Hughes<br>8 For PUGET SOUND ENERGY:<br>9 SHEREE CARSON<br>10 DAVID STEELE<br>BYRON STARKEY<br>11 Perkins Coie LLP   |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510   |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6 James E. Brown, II<br>7 Bijan Hughes<br>8 For PUGET SOUND ENERGY:<br>9 SHEREE CARSON<br>10 DAVID STEELE<br>BYRON STARKEY<br>11 Perkins Coie LLP<br>10885 NE 4th Street<br>12 Suite 700  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255  |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     James E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE<br>BYRON STARKEY       11     Perkins Coie LLP<br>10885 NE 4th Street       12     Suite 700<br>Bellevue, Washington 98004  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm@bkllawfirm.com   |          |
| 4 Commissioner Milt Doumit<br>5 ADMINISTRATIVE LAW JUDGES:<br>6 James E. Brown, II<br>7 Bijan Hughes<br>8 For PUGET SOUND ENERGY:<br>9 SHEREE CARSON<br>10 DAVID STEELE<br>BYRON STARKEY<br>11 Perkins Coie LLP<br>10885 NE 4th Street<br>12 Suite 700<br>Bellevue, Washington 98004<br>13 425.635.1422<br>scarson@perkinscoie.com  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm @bkllawfirm.com       13       FOR MICROSOFT:   |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     James E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE<br>BYRON STARKEY       11     Perkins Coie LLP<br>10885 NE 4th Street       12     Suite 700<br>Bellewe, Washington 98004       13     425.635.1422<br>scarson@perkinscoie.com       14     FOR STAFF:  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0807 Fax       7     dex@smblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kutz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm@bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC  |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     Jarnes E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE<br>BYRON STARKEY       11     Perkins Coie LLP<br>10885 NE 4th Street       12     Suite 700<br>Bellevue, Washington 98004       13     425.635.1422<br>scarson@perkinscoie.com       14     FOR STAFF:       16     NASH I. CALLAGHAN<br>LISA GAFKEN  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm@bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       107 SE Washington Street       16     Suite 430   |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     James E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE<br>BYRON STARKEY       11     Perkins Coie LLP<br>10885 NE 4th Street       12     Suite 700<br>Bellevue, Washington 98004       13     425.635.1422<br>scarson@perkinscoie.com       14     FOR STAFF:       16     NASH I. CALLAGHAN  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm @bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       107 SE Washington Street   |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     James E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE<br>BYRON STARKEY       11     Perkins Coie LLP<br>10885 NE 4th Street       12     Suite 700<br>Bellevue, Washington 98004       13     425.635.1422<br>scarson@perkinscoie.com       14     FOR STAFF:       16     NASH I. CALLAGHAN<br>LISA GAFKEN       17     Assistant Attorney General<br>PO Box 40128       18     Olympia, Washington 98504  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       513.421.2255       12     kboehm@bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       16     Suite 430       Portland, Oregon 97214       17     503.241.7242       503.241.8160 Fax   |          |
| 4       Commissioner Milt Doumit         5       ADMINISTRATIVE LAW JUDGES:         6       James E. Brown, II         7       Bijan Hughes         8       For PUGET SOUND ENERGY:         9       SHEREE CARSON         10       DAVID STEELE         BYRON STARKEY         11       Perkins Coie LLP         12       Suite 700         Bellevue, Washington 98004         13       425.635.1422         scarson@perkinscoie.com         14         15       FOR STAFF:         16       NASH I. CALLAGHAN         LISA GAFKEN         17       Assistant Attorney General         PO Box 40128         18       Olympia, Washington 98504         360.915.4521         19       nash.callaghan@atg.wa.gov   |          | 3       DAMON E. XENOPOULOS         4       LAURA BAKER         Stone Mattheis Xenopoulos & Brew, PC         5       1025 Thomas Jefferson Street NW         Washington, DC 20007         6       202.342.0800         202.342.0807 Fax         7       dex@smxblaw.com         8       FOR FRED MEYER:         9       KURT J. BOEHM         Boehm, Kurtz & Lowry         10       36 East Seventh Street         Suite 1510         11       Cincinnati, Ohio 45202         513.421.2255         12       kboehm@bkllawfirm.com         13       FOR MICROSOFT:         14       TYLER C. PEPPLE         15       Davison Van Cleve, PC         107 SE Washington Street       16         16       Suite 430         Portland, Oregon 97214       17         17       503.241.7242         503.241.8160 Fax       18         18       tcp@dvclaw.com  |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     James E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE       BYRON STARKEY       11     Perkins Coie LLP       10885 NE 4th Street       12     Suite 700       Bellevue, Washington 98004       13     425.635.1422       scarson@perkinscoie.com       14       15     FOR STAFF:       16     NASH I. CALLAGHAN       LISA GAFKEN       17     Assistant Attorney General       PO Box 40128       18     Olympia, Washington 98504       360.915.4521  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm@bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       107 SE Washington Street       16     Suite 430       Portland, Oregon 97214       17     503.241.7242       503.241.8160 Fax       18     tcp@dvclaw.com       19     FOR WALMART:   |          |
| 4       Commissioner Milt Doumit         5       ADMINISTRATIVE LAW JUDGES:         6       James E. Brown, II         7       Bijan Hughes         8       For PUGET SOUND ENERGY:         9       SHEREE CARSON         10       DAVID STEELE         9       SHOR STARKEY         11       Perkins Coie LLP         12       Suite 700         13       425.635.1422         2       scarson@perkinscoie.com         14       FOR STAFF:         16       NASH I. CALLAGHAN         17       Assistant Attorney General         19       nash.callaghan@atg.wa.gov         20       FOR PUBLIC COUNSEL:  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       513.421.2255       12     kboehm@bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       107     SE Washington Street       16     Suite 430       Portland, Oregon 97214       17     503.241.7242       503.241.7242       503.241.7242       503.241.8160 Fax       18     tcp@dvclaw.com       19     JUSTINA CAVIGLIA       21     Parson Behle & Latimer  |          |
| 4     Commissioner Milt Doumit       5     ADMINISTRATIVE LAW JUDGES:       6     James E. Brown, II       7     Bijan Hughes       8     For PUGET SOUND ENERGY:       9     SHEREE CARSON       10     DAVID STEELE       9     SHEREE CARSON       11     Perkins Coie LLP       12     Suite 700       13     425.635.1422       9     Scarson@perkinscoie.com       14     FOR STAFF:       16     NASH I. CALLAGHAN       17     Assistant Attorney General       PO Box 40128     98504       18     Olympia, Washington 98504       360.915.4521     9       19     nash.callaghan@atg.wa.gov       20     FOR PUBLIC COUNSEL:       21     JESSICA R. JOHANSON-KUBIN       22     TAD ROBINSON ONEILL  |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm @bkllawfirm.com       13       FOR MICROSOFT:       14       TYLER C. PEPPLE       15     Davison Van Cleve, PC       107 SE Washington Street       16     Suite 430       Portland, Oregon 97214       17     503.241.7242       503.241.8180 Fax       18     tcp@dvclaw.com       JUSTINA CAVIGLIA       21     Parson Behle & Latimer       S0 West Liberty Street  |          |
| 4       Commissioner Milt Doumit         5       ADMINISTRATIVE LAW JUDGES:         6       James E. Brown, II         7       Bijan Hughes         8       For PUGET SOUND ENERGY:         9       SHEREE CARSON         10       DAVID STEELE         BYRON STARKEY       BYRON STARKEY         11       Perkins Coie LLP         12       Suite 700         Bellevue, Washington 98004         13       425.635.1422         scarson@perkinscoie.com         14         15       FOR STAFF:         16       NASH I. CALLAGHAN         LISA GAFKEN         17       Assistant Attorney General         PO Box 40128         18       Olympia, Washington 98504         360.915.4521         19       nash.callaghan@atg.wa.gov         20       FOR PUBLIC COUNSEL:         21       JESSICA R. JOHANSON-KUBIN         22       TAD ROBINSON ON EILL         Washington Attorney General's Office         23       800 5th Avenue                                    |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm@bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       10     503.241.7242       503.241.7242       503.241.7242       503.241.7242       503.241.7242       503.241.7242       503.241.7242       503.241.7242       503.241.8160 Fax       18     tcp@dvclaw.com       19     LDSTINA CAVIGLIA       21     Parson Behle & Latimer       50 West Liberty Street     2       20     Suite 750       Reno, Nevada 89501                  |          |
| 4       Commissioner Milt Doumit         5       ADMINISTRATIVE LAW JUDGES:         6       James E. Brown, II         7       Bijan Hughes         8       For PUGET SOUND ENERGY:         9       SHEREE CARSON         10       DAVID STEELE         BYRON STARKEY         11       Perkins Coie LLP         10885 NE 4th Street         12       Suite 700         Bellewe, Washington 98004         13       425.635.1422         scarson@perkinscoie.com         14         15       FOR STAFF:         16       NASH I. CALLAGHAN         LISA GAFKEN         17       Assistant Attorney General         PO Box 40128         18       Olympia, Washington 98504         360.915.4521         19       nash.callaghan@atg.wa.gov         20       FOR PUBLIC COUNSEL:         21       JESSICA R. JOHANSON-KUBIN         22       TAD ROBINSON O'NEILL         Washington Attorney General's Office         23       800 5th Avenue         Suite 2000       24 |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm@bkllawfirm.com       13       FOR MICROSOFT:       14       TYLER C. PEPPLE       15     Davison Van Cleve, PC       107 SE Washington Street       16     Suite 430       Portland, Oregon 97214       17     503.241.7242       503.241.8160 Fax       18     tcp@dvclaw.com       19     FOR WALMART:       JUSTINA CAVIGLIA       21     Parson Behle & Latimer       50 West Liberty Street     22       21     Parson Behle & Davison 12       23     775.323.1601       23     775.323.1601 |          |
| 4       Commissioner Milt Doumit         5       ADMINISTRATIVE LAW JUDGES:         6       James E. Brown, II         7       Bijan Hughes         8       For PUGET SOUND ENERGY:         9       SHEREE CARSON         10       DAVID STEELE         9       SHEREE CARSON         10       DAVID STEELE         11       Perkins Coie LLP         12       Suite 700         13       425.635.1422         14       Sterson@perkinscoie.com         15       FOR STAFF:         16       NASH I. CALLAGHAN         17       Assistant Attorney General         PO Box 40128       980.915.4521         19       nash.callaghan@atg.wa.gov         20       FOR PUBLIC COUNSEL:         21       JESSICA R. JOHANSON-KUBIN         22       TAD ROBINSON O'NEILL         23       800 5th Avenue         Suite 2000       Suite 2000   |          | 3     DAMON E. XENOPOULOS       4     LAURA BAKER       Stone Mattheis Xenopoulos & Brew, PC       5     1025 Thomas Jefferson Street NW       Washington, DC 20007       6     202.342.0800       202.342.0807 Fax       7     dex@smxblaw.com       8     FOR FRED MEYER:       9     KURT J. BOEHM       Boehm, Kurtz & Lowry       10     36 East Seventh Street       Suite 1510       11     Cincinnati, Ohio 45202       513.421.2255       12     kboehm @bkllawfirm.com       13     FOR MICROSOFT:       14     TYLER C. PEPPLE       15     Davison Van Cleve, PC       107 SE Washington Street       16     Suite 430       Portland, Oregon 97214       17     503.241.7242       503.241.8160 Fax       18     tcp@dvclaw.com       19     JUSTINA CAVIGLIA       21     Parson Behle & Latimer       50     West Liberty Street       22     Suite 750       Reno, Nevada 89501     23       23     775.323.1601                                    |          |

| Page 290     Page 292       1     EXAMINATION INDEX       2     EXAMINATION CP:     PAGE NO.       3     Chris McGuire     902 am.       4     Direct examination by Chair Darner     293       5     Examination by Chair Darner     293       6     Examination by Commissioner Rendahl     296       7     Robert Earle     My name & Bjan Hughes, administrative Isw       8     Direct examination by Commissioner Rendahl     306       11     Examination by Commissioner Rendahl     306       12     Lance Kaufman     306       13     Direct examination by Chair Danner     308       14     Cross-examination by Ms. Moser     310       15     Examination by Chair Danner     326       16     Bradley G. Mullins     337       17     Direct examination by Ms. Moser     327       18     Examination by Commissioner Rendahl     338       21     Examination by Commissioner Doumit     338       22     Examination by Commissioner Rendahl     336       23     Examination by Commissioner Rendahl     337       24     Direct examination by Ms. Moser     327       25     So Lealew we left off weaters by our right hend.       26     Cross-examination by Commissioner Rendahl   |  |   | Docket Nos. UE-240004, UG-240005, and UE-230810 (Consolidated) - Vol. I   |
|--|--|---|---|
| 2     EXAMINATION OF:     PAGE NO.     2     9:02 am.       4     Direct examination by Ms. Gafken     293       5     Examination by Commissioner Rendahl     296       7     Robert Earle     My name is Bijan Hughes, administrative law       9     Direct examination by Commissioner Rendahl     300       9     Examination by Commissioner Pournit     301       10     Examination by Charner     308       11     Examination by Charner     308       12     Lance Kaufman     100       13     Direct examination by Ms. Moser     310       14     Cross-examination by Ms. Moser     310       15     Examination by Chair Danner     325       16     Bradley G. Mullins     217       17     Direct examination by Ms. Gafken     310       18     Examination by Charing Danner     325       19     Examination by Commissioner Pournit     328       21     Direct examination by Ms. Hasselman     335       22     Examination by Ms. Gafken     344       23     Examination by Ms. Gafken     344       24     Direct examination by Ms. Baker     343       25     Cross-examination by Ms. Gafken     344       26     Direct examination by Ms. Gafken     344   <   |  | Page 290  | Page 292  |
| 2     EXAMINATION OF:     PAGE NO.       4     Direct examination by Ms. Gafken     293       5     Examination by Commissioner Rendahl     296       7     Robert Earle     My name is Bijan Hughes, administrative law       9     Direct examination by Commissioner Rendahl     300       9     Examination by Commissioner Pournit     301       10     Examination by Commissioner Pournit     301       11     Examination by Chair Danner     308       12     Lance Kaufman     100       13     Direct examination by Ms. Moser     310       14     Cross-examination by Ms. Moser     310       15     Examination by Chair Danner     325       16     Bradley G. Mullins     11       17     Direct examination by Ms. Gafken     310       18     Examination by Commissioner Pournit     328       19     Examination by Commissioner Pournit     328       19     Examination by Commissioner Pournit     338       21     Direct examination by Ms. Hasselman     335       22     Examination by Ms. Bafker     343       23     Examination by Ms. Bafker     343       24     Direct examination by Ms. Gafken     344       25     Page 291     DIRECT EXAMINATION OF:   | 1  | EXAMINATION INDEX   | 1 LACEY, WASHINGTON: NOVEMBER 5, 2024   |
| 3       Chris McGuire       -00-         4       Direct examination by Chair Darner       293         5       Examination by Commissioner Rendahl       296         7       Robert Earle       300         8       Direct examination by Commissioner Rendahl       206         9       Direct examination by Commissioner Rendahl       306         10       Examination by Commissioner Rendahl       306         11       Examination by Commissioner Rendahl       306         12       Lance Kaufman       306         13       Direct examination by Ms. Gafken       310         14       Cross-examination by Ms. Gafken       310         15       Examination by Chair Darner       325         16       Bradley G. Mulins       327         17       Direct examination by Ms. Gafken       331         18       Examination by Commissioner Doumit       328         19       Examination by Commissioner Doumit       328         19       Examination by Commissioner Coumit       338         21       Examination by Commissioner Coumit       338         22       Examination by Commissioner Coumit       338         23       Examination by Commissioner Coumit       338     <   |  |   |   |
| 4       Direct examination by Ms. Gafken       293         5       Examination by Commissioner Rendahl       296         7       Robert Earle       My name is Bijan Hughes, administrative law         9       Direct examination by Commissioner Podumit       301         9       Examination by Commissioner Rendahl       306         11       Examination by Commissioner Rendahl       306         12       Lance Kaufman       10         13       Direct examination by Ms. Gafken       310         14       Cross-evanination by Ms. Gafken       310         15       Examination by Chair Danner       325         16       Bradley G. Mulins       327         17       Direct examination by Commissioner Rendahl       326         18       Examination by Commissioner Rendahl       326         19       Examination by Commissioner Rendahl       326         20       Examination by Chair Danner       326         21       Examination by Chair Danner       336         22       Examination by Chair Danner       336         23       Examination by Chair Danner       336         24       Withore Weith of the econd?         25       Examination by Chair Danner       336   |  |   |   |
| 5     Examination by Chair Danner     293     5     moming, It is Tuesday, November Sth. The time is       6     Examination by Commissioner Rendahl     296     My name is Bijan Huges, administrative law       8     Direct examination by Commissioner Rendahl     300       10     Examination by Commissioner Rendahl     301       11     Examination by Chair Danner     308       12     Lance Kaufman     306       13     Direct examination by Ms. Koser     310       14     Cross-examination by Ms. Moser     327       15     Examination by Commissioner Rendahl     328       16     Bradley G. Mullins     327       17     Direct examination by Ms. Moser     327       18     two fm seeing on Docksto UE-24004 and US-24005, which is       19     Examination by Commissioner Rendahl     331       10     Bradley Cebulko     22       11     Birantey Cabulko     23       22     Examination by Commissioner Doumit     338       23     Examination by Ms. Hasselman     335       24     24     24       25     EXAMINATION INDEX (Continuing)       24     EXAMINATION NOF:     PAGE NO.       25     EXAMINATION NOF:     PAGE NO.       26     Spelied Mi-Go-Gu-i-re.  | 4  |   | 4 JUDGE HUGHES: Let's be on the record. Good  |
| 6       Examination by Commissioner Rendahl       296       6       9:02.         8       Direct examination by Commissioner Rondahl       300       9       Examination by Commissioner Rondahl       300         10       Examination by Commissioner Rendahl       306       10       matter along with the commissioners, and administrative law judge utames Brown II.         11       Examination by Commissioner Rendahl       306       10       matter along with the commissioner, and administrative law judge utames Brown II.         12       Larnoc Kaufman       301       11       Robert et accontinue the evidentiary         13       Direct examination by Ms. Gafken       310       12       So were here to continue the evidentiary         14       Cross-examination by Ms. Gafken       310       12       So believe we left off yesterday with the         15       Examination by Commissioner Rendahl       331       12       So believe we left off yesterday with the         16       Bradley Cebulko       13       14       chase raise your right hand.       22         24       Welcome. Please raise your right hand.       22       14       Welcome. Please raise your right hand.         25       Examination by Commissioner Doumit       338       23       14       14         26       Examina  | 5  |   | 5 morning. It is Tuesday, November 5th. The time is   |
| 7       Robert Earle       7       My name is Bign Hughes, administrative law         9       Examination by Commissioner Pounti       300         10       Examination by Commissioner Rendahl       300         11       Examination by Chair Danner       308         12       Lance Kaufman       11         13       Direct examination by MS. Moser       310         14       Cross-examination by MS. Gafken       310         15       Examination by Chair Danner       325         16       Bradley G. Mullins       327         17       Direct examination by Commissioner Rendahl       321         18       Examination by Commissioner Rendahl       326         19       Examination by Commissioner Rendahl       331         21       Examination by Commissioner Rendahl       335         22       Examination by Chair Danner       338         24       Zi       JUBCet HUGHEs: Thank you.         25       Page 291       Page 293         26       EXAMINATION INDEX (Continuing)       27         27       EXAMINATION NDEX (Continuing)       28         28       Cross-examination by Ms. Gafken       344         37       Direct examination by Ms. Gafken       3   | 6  |   | -   |
| 9     Examination by Commissioner Pounti     301       10     Examination by Commissioner Rendahl     308       11     Examination by Chair Danner     308       12     Lance Kaufman     12       13     Direct examination by Ms. Moser     310       14     Cross-examination by Ms. Gafken     310       15     Examination by Chair Danner     322       16     Bradley G. Mullins     327       17     Direct examination by Ms. Moser     327       18     Examination by Commissioner Rendahl     331       19     Examination by Commissioner Rendahl     331       21     Direct examination by Ms. Moser     327       23     Examination by Commissioner Rendahl     331       24     Direct examination by Mr. Hasselman     335       25     Examination by Commissioner Rendahl     333       24     Examination by Commissioner Doumit     338       25     Examination by Commissioner Rendahl     336       26     Examination by Chair Danner     336       27     Examination by Chair Danner     338       28     Examination by Chair Danner     338       29     UDRect examination by Ms. Baker     343       20     Cormission, anu an anu and anu  | 7  |   | 7 My name is Bijan Hughes, administrative law   |
| 10       Examination by Commissioner Rendahl       306       10       matter along with the commissioners, and administrative         11       Examination by Chair Danner       308       11       Isav judge James Brown II.         13       Direct examination by Ms. Moser       310       13       hearing in Dockets UE-240004 and UG-240005, which is         14       Cross-examination by Ms. Moser       310       13       hearing in Dockets UE-24004 and UG-240005, which is         15       Examination by Chair Danner       325       15       Cormission, Puget Sound Energy.         18       whore without Sound Energy.       So to believe we let of ty storday with the       nere witness being – I just had it ~ Chris McGuire, whore mee.         19       Examination by Commissioner Rendahl       331       14       Welcome. Please raise your right hand.         20       Direct examination by Mr. Hasselman       335       22       JUDGE HUGHES: Thank you. Please introduce         21       Direct examination by Commissioner Doumit       338       22       JUDGE HUGHES: Thank you. Please introduce         22       Examination by Mr. Hasselman       335       22       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Ms. Baker       343       344       5       0. Good morning. Would you please state and spell your meer for th  | 8  | Direct examination by Ms. Johanson-Kubin 300  | 8 judge with the Washington Utilities and Transportation  |
| 11       Examination by Chair Danner       308       11       Iaw judge James Rown II.         12       Lance Kaufman       So we're here to continue the evidentiary         13       Direct examination by Ms. Moser       310         14       Cross-examination by Ms. Gafken       310         15       Examination by Chair Danner       325         16       Bradley Cb Mullins       327         17       Direct examination by Commissioner Doumit       328         18       Examination by Commissioner Rendahl       3311         21       Direct examination by Chair Danner       335         22       Examination by Commissioner Doumit       338         23       Examination by Chair Danner       3326         24       JUDGE HUGHES: Thank you. Please introduce       the witness.         24       J///       JUDGE HUGHES: Thank you. Please introduce         25       ExaMINATION INDEX (Continuing)       22         26       Page 291       Page 291         27       EXAMINATION INDEX (Continuing)       1         28       Direct examination by Ms. Baker       343         39       Gross-examination by Ms. Gafken       344         6       Tross-examination by Ms. Gafken       344 </td <td>9</td> <td>Examination by Commissioner Doumit 301</td> <td>9 Commission, and as you recall, I'm presiding over this</td>  | 9  | Examination by Commissioner Doumit 301  | 9 Commission, and as you recall, I'm presiding over this  |
| 12       Lance Kaufman       12       So we're here to continue the evidentiary         13       Direct examination by Ms. Gafken       310       13       hearing in Dockets UE-24004 and UG-240005, which is captioned Washington Uillies and Transportation         14       Cross-examination by Ms. Moser       327       13       hearing in Dockets UE-24004 and UG-240005, which is captioned Washington Uillies and Transportation         15       Examination by Chair Danner       325       16       So believe we left of yesterday with the next witness being I just had it Chris McGuire, who I'm seeing on the screen here.         16       Bradley Cebulko       20       So believe we left of yesterday with the next witness being I just had it Chris McGuire, who I'm seeing on the screen here.         21       Direct examination by Commissioner Boumit       335       22       Welcome. Please raise your right hand.         22       Examination by Commissioner Doumit       338       23       JUDGE HUGHES: Thank you. Please introduce         24       Junce te xamination by Ms. Baker       343       7       0. God morning.       Welcome. Please raise your right hand.         25       VI//       EXAMINATION INDEX (Continuing)       1       Direct examination by Ms. Galken       344         26       Fage 291       Page 293       0. God morning.       0. God morning.       0. Mod you please stat   | 10   | Examination by Commissioner Rendahl 306   | 10 matter along with the commissioners, and administrative  |
| 13       Direct examination by Ms. Moser       310       14       hearing in Dockets UE-240004 and UG-240005, which is captioned Washington. Utilities and Transportation         14       Cross-examination by Ms. Gafken       310       14       captioned Washington. Utilities and Transportation         15       Examination by Chair Darner       325       16       So I believe weilst off yesterday with the         16       Examination by Commissioner Doumit       328       18       No I'm Seeing on the screen here.         18       Examination by Commissioner Rendehl       331       331       19       Welcome. Please raise your right hand.         21       Direct examination by Chair Danner       336       23       Welcome. Please raise your right hand.       24         23       Examination by Chair Danner       336       23       UDGE HUGHES: Thank you. Please introduce         24       JUDE HUGHES: Thank you. Please introduce       111       111       25       JUDE HUGHES: Thank you. Please tate and spell your name for the record?         2       EXAMINATION NDEX (Contuning)       2       Codor morning. Would you please state and spell your ame for the record?       30       30       6         3       Cross-examination by Ms. Gafken       344       344       5       A. My name is Chris McGuire. My last name is spelled M-cG-u-i-re. <td< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td></td<>       |  | · · · · · · · · · · · · · · · · · · ·   |   |
| 14       Cross-examination by Ms. Gafken       310       14       captioned Washington Utilities and Transportation         15       Examination by Chair Danner       325       15       Commission, Puget Sound Energy.         17       Direct examination by Ms. Moser       327       17       next witness being -1 just had it - Chris McGuire,         18       Examination by Commissioner Poumit       328       18       who Im seeing on the screen here.         19       Examination by Mr. Hasselman       335       22       Examination by Chair Danner       336         21       Direct examination by Mr. Hasselman       335       22       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Commissioner Doumit       338       24       JUDGE HUGHES: Thank you. Please introduce         24       EXAMINATION NOF:       PAge 291       Page 291       Page 293         2       EXAMINATION OF:       PAGE NO.       2       Mr name is Chris McGuire. My last name is spelled Mr-G-u+i-re.         7       Cross-examination by Ms. Gafken       344       9       Go dmorning. Would you please state and spell your name for the record?         8       Oross-examination by Ms. Gafken       344       9       Go dmorning.       Mr Gouries exhibits and testimory has already bee netrered into the record?  |  |   |   |
| 15       Examination by Chair Danner       325       15       Commission, Puget Sound Energy.         16       Bradley G, Mullins       16       So I believe we left off yesterday with the         17       Direct examination by Ms. Moser       327         18       Examination by Commissioner Poumit       328         19       Examination by Chair Danner       336         21       Direct examination by Chair Danner       336         22       Examination by Chair Danner       336         23       Examination by Commissioner Doumit       338         24       Ziffield as follows:       UDGE HUGHES: Thank you. Please introduce         23       Examination by Chair Danner       336         24       Ziffield as follows:       Ziffield as follows:         25       Ziffield as follows:       Ziffield as follows:         24       ////       Ziffield as follows:       Ziffield as follows:         25       Ziffield as follows:       Ziffield as follows:       Ziffield as follows:         24       ////       Ziffield as follows:       Ziffield as follows:       Ziffield as follows:         25       Ziffield as follows:       Ziffield as follows:       Ziffield as follows:       Ziffield as follows:         26   |  |   | 5   |
| 16       Bradley G. Mullins       16       So I beliew we left off yestarday with the next witness being I just had II Chris McGuire, with the next witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we witness being I just had II Chris McGuire, we with mess.         21       Direct examination by Commissioner Doumit       336         22       Examination by Chair Danner       336         23       Examination by Commissioner Doumit       338         24       JUDCE HUGHES: Thank you. Please introduce         25       JUDCE HUGHES: Thank you. Please introduce         26       With Sale Sale       343         27       EXAMINATION INDEX (Continuing)       2       BY God morning. Would you please state and spell         28       Direct examination by Ms. Baker       343       344       5         30       Cross-examination by Ms. Gafken       344       5       A. My name is Chris McGuire. My last name is spelled M-c-G-u+r-e.         31       JUDGE HUGHES: Thank you. Do we have questions from the bench?       2       UDGE HUGH |  | •   |   |
| 17       Direct examination by Ms. Moser       327         18       Examination by Commissioner Doumit       328         19       Examination by Commissioner Rendahl       331         20       Direct examination by Chair Danner       336         21       Direct examination by Chair Danner       336         22       Examination by Chair Danner       336         23       Examination by Chair Danner       336         24       JUDCE HUGHES: Thank you. Please introduce         25       UBCE HUGHES: Thank you. Please introduce         24       IIII         25       Page 291         Page 291       Page 293         26       Cross-examination by Ms. Baker       343         27       A. My name is Chris McGuire. My last name is spelled Mr-Cq-ui-rie.         28       JUDCE HUGHES: Thank you. Do we have         29       Q. Good morning. Would you please state and spell your name for the record?         30       G. Arge Cui-rie.       MS. GAFKEN: Mr. McGuire's exhibits and testimony has already been entered into the record, and so he is now available for questions.         310       JUDCE HUGHES: Thank you. Do we have       questions from the bench?         32       Cross-examination by Ms. Gafken       344         5       G. In your re   |  |   |   |
| 18       Examination by Commissioner Doumit       328       18       who I'm seeing on the screen here.         19       Examination by Commissioner Rendahl       331       19       Welcome. Please raise your right hand.         21       Direct examination by Mr. Hasselman       335       22       Examination by Chair Danner       336         23       Examination by Commissioner Doumit       338       21       UBGE HUGHES: Thank you. Please introduce         24       Examination by Commissioner Doumit       338       24       ////         24       Examination by Commissioner Doumit       338       24       ////         25       Examination by Commissioner Doumit       338       24       ////         24       Examination by Commissioner Doumit       338       24       ////         25       Examination by Commissioner Doumit       338       24       ////         25       EXAMINATION INDEX (Continuing)       EXAMINATION OF: PAGE NO.       Page 291       Page 293         26       Erzamination by Ms. Baker       343       0. Good morning. Would you please state and spell your name for the record?       A. My name is Chris McGuire. My last name is spelled Mc-G-U-L-re.         7       Ms. GAFKEN:       Mc. McGuire's exhibits and testimory has already been entered into the record, and spell yo   |  |   | ,   |
| 19       Examination by Commissioner Rendahl       331         20       Bradley Cebulko       CHRIS MGURE,       having been first duly swom         21       Direct examination by Mr. Hasselman       335         22       Examination by Chair Danner       336         23       Examination by Commissioner Doumit       338         24       ////       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Commissioner Doumit       338         24       ////       ////         25       JUDGE HUGHES: Thank you. Please introduce       1         24       ////       25       ////         25       EXAMINATION INDEX (Continuing)       DIRECT EXAMINATION         2       EXAMINATION OF:       PAGE 293         3       Cross-examination by Ms. Baker       343         6       Gross-examination by Ms. Gafken       344         6       MS.GAFKEN: Mr. McGuire's exhibits and         7       MS.GAFKEN: Mr. McGuire's exhibits and         8       testimory has already been entered into the record, and         9       so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       EXAMINATION         12 <td< td=""><td></td><td></td><td>5,</td></td<>  |  |   | 5,  |
| 20       Bradley Cebulkó       20       CHRIS MCGUIRE, having been first duly swom         21       Direct examination by Chair Danner       336         23       Examination by Chair Danner       338         24       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Commissioner Doumit       338         24       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Commissioner Doumit       338         24       JUI       Direct EXAMINATION INDEX (Continuing)         2       EXAMINATION OF: PAGE NO.       BY MS. GAFKEN:         3       Cross-examination by Ms. Baker       343         5       Cross-examination by Ms. Gafken       344         6       Selled M-c-G-ui-r-e.       M. My name is Chris McGuire. My last name is         7       MS. GAFKEN: Mr. McGuire's exhibits and       testimony has already been entered into the record, and         8       So he is now available for questions.       JUDGE HUGHES: Thank you. Do we have         10       JUDGE HUGHES: Thank you wery much. Good       JUDGE HUGHES: Thank you wery much. Good         11       Cross-examination by Ms. Gafken       344       So he is now available for questions.         10       JUDGE HUGHES: Thank you very much. Good       Morning.   |  |   | <b>.</b>  |
| 21       Direct examination by Mr. Hasselman       335         22       Examination by Chair Danner       336         23       Examination by Commissioner Doumit       338         24       25       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Commissioner Doumit       338         24       25       JUDGE HUGHES: Thank you. Please introduce         24       25       JUIGE HUGHES: Thank you. Please introduce         24       25       JUIGE HUGHES: Thank you. Please introduce         25       EXAMINATION INDEX (Continuing)       Direct examination by Ms. Baker       343         2       Cross-examination by Ms. Gafken       344       Good morning. Would you please state and spell         4       Direct examination by Ms. Gafken       344       Good morning. Would you please state and spell         5       Cross-examination by Ms. Gafken       344       Good morning. Would you please state and spell         6       spelled Mc-G-U-i-r-e.       Ms. GAFKEN: Mr. McGuire's exhibits and         7       Kewin C. Hugins       JUDGE HUGHES: Thank you. Do we have         10       JUDGE HUGHES: Thank you. Do we have       JUDGE HUGHES: Thank you. Do we have         11       questions from the bench?       EXAMINATION         12  |  | ,   | , ,   |
| 22       Examination by Chair Danner       336       22       JUDGE HUGHES: Thank you. Please introduce         23       Examination by Commissioner Doumit       338       24       23         24       25       24       ////         25       Page 291       Page 291       Page 293         1       EXAMINATION INDEX (Continuing)       2       2       0         2       EXAMINATION OF:       PAGE NO.       8       9         4       Direct examination by Ms. Baker       343       344       5       Cross-examination by Ms. Gafken       344         6       7       A. My name is Chris McGuire. My last name is spelled M-c-G-u-ir-re.       MS. GAFKEN: Mr. McGuire's exhibits and testimony has already been entered into the record, and so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have       10         11       JUDGE HUGHES: Thank you. Do we have       11         12       EXAMINATION       EXAMINATION         13       JUDGE HUGHES: Thank you. Very much. Good       10         14       G. All right, sir. Thank you very much. Good       10         13       Good morning.       Q. All right, sir. Thank you very much. Good         14       G. Ming, Mr. McGuire.       A. Good morning.  |  | •   |   |
| 23       Examination by Commissioner Doumit       338       23       the witness.         24       24       ////         25       24       ////         26       24       ////         27       24       ////         28       291       Page 291         29       EXAMINATION INDEX (Continuing)       2         2       EXAMINATION OF:       PAGE NO.         3       Kevin C. Higgins       343         5       Cross-examination by Ms. Baker       343         5       Cross-examination by Ms. Gafken       344         6       Spelled M-c-G-u-i-r-e.       M. My name is Chris McGuire. My last name is spelled M-c-G-u-i-r-e.         7       M. My name is Chris McGuire's exhibits and testimony has already been entered into the record, and so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       Justice HugHES: Thank you very much. Good         13       BY CHAIR DANNER:         14       Good morning.         16       A. Good morning.         17       Q. Al right, sir. Thank you very much. Good         18       significant variance in the company's provisional plant         19       O. In your response testimony, you identify a <td></td> <td></td> <td></td>   |  |   |   |
| 24       24       ////         25       Page 291       Page 293         1       EXAMINATION INDEX (Continuing)       PAGE 291         2       EXAMINATION OF:       PAGE 800.         3       Kevin C. Higgins       343         5       Cross-examination by Ms. Baker       343         6       7       A. My name is Chris McGuire. My last name is spelled M-c-G-u-i-re.         7       MS. GAFKEN:       A. My name is Chris McGuire extributs and testimony has already been entered into the record, and so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have questions from the bench?         12       EXAMINATION         13       JUDGE HUGHES: Thank you very much. Good morning.         14       O. All right, sir. Thank you very much. Good morning.         17       Q. All right, sir. Thank you very much. Good morning.         18       significant variance in the company's provisional plant filing related to AMI – related to the AMI project.         19       filing related to AMI – related to the AMI project.         20       Specifically, you testified the level of plant in the         21       review filing was 132.6 million lower than that included in the forecasted plans.         22       And on rebuttal, PSE Witness Free responded to your testimony regarding that variance and indicated  |  | •   |   |
| 25     25     ///       21     EXAMINATION INDEX (Continuing)     Page 291       2     EXAMINATION OF: PAGE NO.     DIRECT EXAMINATION       3     Kevin C. Higgins     1     DIRECT EXAMINATION       4     Direct examination by Ms. Baker     343     3       5     Cross-examination by Ms. Gafken     344     A. My name is Chris McGuire. My last name is spelled M-c-G-u-i-re.       7     MS. GAFKEN:     Mr. McGuire's exhibits and testimony has already been entered into the record, and so he is now available for questions.       10     JUDGE HUGHES: Thank you. Do we have questions from the bench?       12     EXAMINATION       13     BY CHAR DANNER:       14     Mr. McGuire.       15     A. Good morning.       16     Mr. McGuire.       17     A. Good morning.       18     BY CHAR DANNER:       19     Mr. McGuire.       19     Mr. McGuire.       10     No run response testimony, you identify a significant variance in the company's provisional plant filing related to AMI – related to the AMI project.       19     Specifically, you testified the level of plant in the review filing was 132.6 million lower than that included in the forecasted plans.       22     And on rebuttal, PSE Witness Free responded to your testimony regarding that variance and indicated  |  | Examination by Commissioner Dournit 558   |   |
| Page 291Page 291Page 2931EXAMINATION INDEX (Continuing)<br>2EXAMINATION OF:<br>PAGE NO.PAGE NO.3Kevin C. Higgins34Direct examination by Ms. Baker<br>33435Cross-examination by Ms. Gafken344637Ms. GAFKEN:7Ms. GAFKEN:8Ms. GAFKEN:9Ms. GAFKEN:10Ms. GAFKEN:11JUDGE HUGHES: Thank you. Do we have<br>11121213JUDGE HUGHES: Thank you. Do we have<br>1114Ms. GAFKEN:151416A. Good morning.17A. Good morning.181919In your response testimony, you identify a<br>significant variance in the company's provisional plant<br>filing related to AMI related to the AMI project.20Specifically, you testified the level of plant in the<br>review filing was 132.6 million lower than that included<br>in the forecasted plans.21Ma on rebuttal, PSE Witness Free responded to<br>your testimony regarding that variance and indicated   |  |   |   |
| 1EXAMINATION INDEX (Continuing)1DIRECT EXAMINATION2EXAMINATION OF:PAGE NO.BY MS. GAFKEN:33Direct examination by Ms. Baker3433Godod morning. Would you please state and spell4Direct examination by Ms. Gafken3443A. My name is Chris McGuire. My last name is6Spelled M-c-G-u-i-re.7MS. GAFKEN: Mr. McGuire's exhibits and8So he is now available for questions.9JUDGE HUGHES: Thank you. Do we have11JUDGE HUGHES: Thank you. Do we have11guestions from the bench?12EXAMINATION13BY CHAIR DANNER:1413BY CHAIR DANNER:415Q. In your response testimony, you identify a18significant variance in the company's provisional plant1918significant variance in the cevel of plant in the22Specifically, you testified the level of plant in the23And on rebuttal, PSE Witness Free responded to24Your testimony regarding that variance and indicated   | 23   |   |   |
| 2EXAMINATION OF:PAGE NO.3Kevin C. Higgins3434Direct examination by Ms. Baker3435Cross-examination by Ms. Gafken34465A. My name is Chris McGuire. My last name is<br>spelled Mc-G-u-i-r-e.7MS. GAFKEN:Mr. McGuire's exhibits and<br>testimony has already been entered into the record, and<br>so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have<br>questions from the bench?12EXAMINATION13Mr. God morning.14Mr. God morning.15Mr. God morning.16Mr. God morning.17Mr. God morning.18Mr. God morning.19Mr. God morning.20Mr. God morning.21Specifically, you testified the level of plant in the<br>review filing related to AMI - related to the AMI project.22Specifically, you testified the level of plant in the<br>review filing was 132.6 million lower than that included<br>in the forecasted plans.22And on rebuttal, PSE Witness Free responded to<br>your testimony regarding that variance and indicated   |  | Page 201  |   |
| 2EXAMINATION OF:PAGE NO.3Kevin C. Higgins3434Direct examination by Ms. Baker3435Cross-examination by Ms. Gafken34465A. My name is Chris McGuire. My last name is<br>spelled Mc-G-u-i-r-e.7MS. GAFKEN:Mr. McGuire's exhibits and<br>testimony has already been entered into the record, and<br>so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have<br>questions from the bench?12EXAMINATION13Mr. God morning.14Mr. God morning.15Mr. God morning.16Mr. God morning.17Mr. God morning.18Mr. God morning.19Mr. God morning.20Mr. God morning.21Specifically, you testified the level of plant in the<br>review filing related to AMI - related to the AMI project.22Specifically, you testified the level of plant in the<br>review filing was 132.6 million lower than that included<br>in the forecasted plans.22And on rebuttal, PSE Witness Free responded to<br>your testimony regarding that variance and indicated   |  | Fage 291  | Page 293  |
| 3Kevin C. Higgins3Q. Good morning. Would you please state and spell4Direct examination by Ms. Baker34334445Cross-examination by Ms. Gafken3445A. My name is Chris McGuire. My last name is6Cross-examination by Ms. Gafken3445A. My name is Chris McGuire. My last name is7So GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9JUDGE HUGHES: Thank you. Do we have10JUDGE HUGHES: Thank you. Do we have1111questions from the bench?1212EXAMINATION13BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good15In your response testimony, you identify a18significant variance in the company's provisional plant19In your testified the level of plant in the20Specifically, you testified the level of plant in the21review filling was 132.6 million lower than that included23Ad on rebuttal, PSE Witness Free responded to242424   | 1  |   |   |
| 4Direct examination by Ms. Baker3433445your name for the record?5Cross-examination by Ms. Gafken3445A. My name is Chris McGuire. My last name is6Spelled M-c-G-u-i-r-e.MS. GAFKEN: Mr. McGuire's exhibits and7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.101011JUDGE HUGHES: Thank you. Do we have11I12EXAMINATION13MS14A. All right, sir. Thank you very much. Good15I16I17A. Good morning.18I19I20Specifically, you testified the level of plant in the21Specifically, you testified the level of plant in the22I23And on rebuttal, PSE Witness Free responded to24242524   |  | EXAMINATION INDEX (Continuing)  | 1 DIRECT EXAMINATION  |
| 656spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and88testimony has already been entered into the record, and99so he is now available for questions.1010JUDGE HUGHES: Thank you. Do we have1111questions from the bench?1212EXAMINATION1313BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1515morning, Mr. McGuire.1616A. Good morning.17Q. In your response testimony, you identify a18significant variance in the company's provisional plant1911Specifically, you testified the level of plant in the2020212121And on rebuttal, PSE Witness Free responded to232424your testimony regarding that variance and indicated  | 2  | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.  | 1 DIRECT EXAMINATION<br>2 BY MS. GAFKEN:  |
| 7MS. GAFKEN: Mr. McGuire's exhibits and88testimony has already been entered into the record, and99so he is now available for questions.1010JUDGE HUGHES: Thank you. Do we have1111questions from the bench?1212EXAMINATION1313BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1515morning, Mr. McGuire.1616A. Good morning.17Q. In your response testimony, you identify a18significant variance in the company's provisional plant1911Specifically, you testified the level of plant in the21222323232424your testimony regarding that variance and indicated   | 2<br>3   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins  | <ol> <li>DIRECT EXAMINATION</li> <li>BY MS. GAFKEN:</li> <li><b>Q. Good morning. Would you please state and spell</b></li> </ol>  |
| 88testimony has already been entered into the record, and<br>so he is now available for questions.1010JUDGE HUGHES: Thank you. Do we have<br>questions from the bench?1212EXAMINATION1313BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1515morning, Mr. McGuire.16A. Good morning.17Q. In your response testimony, you identify a18181919202021Specifically, you testified the level of plant in the2221232324242424   | 2<br>3<br>4  | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | <ol> <li>DIRECT EXAMINATION</li> <li>BY MS. GAFKEN:</li> <li>Q. Good morning. Would you please state and spell</li> <li>your name for the record?</li> </ol>  |
| 9so he is now available for questions.1010JUDGE HUGHES: Thank you. Do we have1111questions from the bench?1212EXAMINATION1313BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1515morning, Mr. McGuire.1616A. Good morning.1717Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filling related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121review filling was 132.6 million lower than that included2223And on rebuttal, PSE Witness Free responded to2424your testimony regarding that variance and indicated   | 2<br>3<br>4<br>5   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | <ol> <li>DIRECT EXAMINATION</li> <li>BY MS. GAFKEN:</li> <li><b>Q. Good morning. Would you please state and spell</b></li> <li><b>your name for the record?</b></li> <li>A. My name is Chris McGuire. My last name is</li> </ol>  |
| 10JUDGE HUGHES: Thank you. Do we have1111121212EXAMINATION1313141414141515161616161717181819192020212022212323242424242524   | 2<br>3<br>4<br>5<br>6<br>7   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | <ol> <li>DIRECT EXAMINATION</li> <li>BY MS. GAFKEN:</li> <li>Q. Good morning. Would you please state and spell</li> <li>your name for the record?</li> <li>A. My name is Chris McGuire. My last name is</li> <li>spelled M-c-G-u-i-r-e.</li> </ol>  |
| 1111questions from the bench?1212EXAMINATION1312EXAMINATION13BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1514Q. All right, sir. Thank you very much. Good1615morning, Mr. McGuire.1616A. Good morning.17Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121review filing was 132.6 million lower than that included2323And on rebuttal, PSE Witness Free responded to242424   | 2<br>3<br>4<br>5<br>6<br>7<br>8  | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | <ol> <li>DIRECT EXAMINATION</li> <li>BY MS. GAFKEN:</li> <li>Q. Good morning. Would you please state and spell</li> <li>your name for the record?</li> <li>A. My name is Chris McGuire. My last name is</li> <li>spelled M-c-G-u-i-r-e.</li> <li>MS. GAFKEN: Mr. McGuire's exhibits and</li> </ol>  |
| 1212EXAMINATION1312EXAMINATION1413BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1514Q. All right, sir. Thank you very much. Good1615morning, Mr. McGuire.1616A. Good morning.17Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121review filing was 132.6 million lower than that included2323And on rebuttal, PSE Witness Free responded to2424your testimony regarding that variance and indicated  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1       DIRECT EXAMINATION         2       BY MS. GAFKEN:         3       Q. Good morning. Would you please state and spell         4       your name for the record?         5       A. My name is Chris McGuire. My last name is         6       spelled M-c-G-u-i-r-e.         7       MS. GAFKEN: Mr. McGuire's exhibits and         8       testimony has already been entered into the record, and         9       so he is now available for questions.  |
| 1313BY CHAIR DANNER:1414Q. All right, sir. Thank you very much. Good1514Q. All right, sir. Thank you very much. Good1615morning, Mr. McGuire.1616A. Good morning.1717Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121review filing was 132.6 million lower than that included2323And on rebuttal, PSE Witness Free responded to242424  | 2<br>3<br>5<br>6<br>7<br>8<br>9<br>10  | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | <ol> <li>DIRECT EXAMINATION</li> <li>BY MS. GAFKEN:</li> <li>Q. Good morning. Would you please state and spell</li> <li>your name for the record?</li> <li>A. My name is Chris McGuire. My last name is</li> <li>spelled M-c-G-u-i-r-e.</li> <li>MS. GAFKEN: Mr. McGuire's exhibits and</li> <li>testimony has already been entered into the record, and</li> <li>so he is now available for questions.</li> <li>JUDGE HUGHES: Thank you. Do we have</li> </ol>   |
| 1414Q. All right, sir. Thank you very much. Good1514Q. All right, sir. Thank you very much. Good1615morning, Mr. McGuire.1616A. Good morning.1717Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.202020212122212323242324242524   | 2<br>3<br>6<br>7<br>8<br>9<br>10<br>11   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?   |
| 151615morning, Mr. McGuire.1616A. Good morning.1717Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121212221review filing was 132.6 million lower than that included23242324242524  | 2<br>3<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3 <b>Q. Good morning. Would you please state and spell</b> 4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION   |
| 1616A. Good morning.1716A. Good morning.1817Q. In your response testimony, you identify a1818significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121212221222323And on rebuttal, PSE Witness Free responded to242424   | 2<br>3<br>4<br>5<br>7<br>8<br>9<br>10<br>11<br>12<br>13  | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:  |
| 1717Q. In your response testimony, you identify a1817Q. In your response testimony, you identify a1918significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020202120202221212322212423And on rebuttal, PSE Witness Free responded to242424   | 2<br>3<br>4<br>5<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14  | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:14Q. All right, sir. Thank you very much. Good  |
| 181718significant variance in the company's provisional plant1918significant variance in the company's provisional plant1919filing related to AMI related to the AMI project.2020Specifically, you testified the level of plant in the2121212222222323And on rebuttal, PSE Witness Free responded to242424   | 2<br>3<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:14Q. All right, sir. Thank you very much. Good15morning, Mr. McGuire.   |
| 1910Significant variation in the company sprovisional plant1919filing related to AMI related to the AMI project.2020202120Specifically, you testified the level of plant in the2121212222212323232423And on rebuttal, PSE Witness Free responded to252424  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:14Q. All right, sir. Thank you very much. Good15Morning, Mr. McGuire.16A. Good morning.   |
| 2020Specifically, you testified the level of plant in the2120Specifically, you testified the level of plant in the2221review filing was 132.6 million lower than that included2322in the forecasted plans.2423And on rebuttal, PSE Witness Free responded to252424   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:14Q. All right, sir. Thank you very much. Good15morning, Mr. McGuire.16A. Good morning.17Q. In your response testimony, you identify a  |
| 2121review filing was 132.6 million lower than that included2222in the forecasted plans.2323And on rebuttal, PSE Witness Free responded to242424   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1       DIRECT EXAMINATION         2       BY MS. GAFKEN:         3       Q. Good morning. Would you please state and spell         4       your name for the record?         5       A. My name is Chris McGuire. My last name is         6       spelled M-c-G-u-i-r-e.         7       MS. GAFKEN: Mr. McGuire's exhibits and         8       testimony has already been entered into the record, and         9       so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       questions from the bench?         12       EXAMINATION         13       BY CHAIR DANNER:         14       Q. All right, sir. Thank you very much. Good         15       morning, Mr. McGuire.         16       A. Good morning.         17       Q. In your response testimony, you identify a         18       significant variance in the company's provisional plant  |
| 2222in the forecasted plans.2323And on rebuttal, PSE Witness Free responded to2424242524   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:14Q. All right, sir. Thank you very much. Good15morning, Mr. McGuire.16A. Good morning.17Q. In your response testimony, you identify a18significant variance in the company's provisional plant19filing related to AMI related to the AMI project.  |
| 2323And on rebuttal, PSE Witness Free responded to2424242524   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1DIRECT EXAMINATION2BY MS. GAFKEN:3Q. Good morning. Would you please state and spell4your name for the record?5A. My name is Chris McGuire. My last name is6spelled M-c-G-u-i-r-e.7MS. GAFKEN: Mr. McGuire's exhibits and8testimony has already been entered into the record, and9so he is now available for questions.10JUDGE HUGHES: Thank you. Do we have11questions from the bench?12EXAMINATION13BY CHAIR DANNER:14Q. All right, sir. Thank you very much. Good15morning, Mr. McGuire.16A. Good morning.17Q. In your response testimony, you identify a18significant variance in the company's provisional plant19filing related to AMI related to the AMI project.20Specifically, you testified the level of plant in the   |
| 24 your testimony regarding that variance and indicated  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1       DIRECT EXAMINATION         2       BY MS. GAFKEN:         3       Q. Good morning. Would you please state and spell         4       your name for the record?         5       A. My name is Chris McGuire. My last name is         6       spelled M-c-G-u-i-r-e.         7       MS. GAFKEN: Mr. McGuire's exhibits and         8       testimony has already been entered into the record, and         9       so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       questions from the bench?         12       EXAMINATION         13       BY CHAIR DANNER:         14       Q. All right, sir. Thank you very much. Good         15       morning, Mr. McGuire.         16       A. Good morning.         17       Q. In your response testimony, you identify a         18       significant variance in the company's provisional plant         19       filing related to AMI related to the AMI project.         20       Specifically, you testified the level of plant in the         21       review filing was 132.6 million lower than that included  |
|  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1       DIRECT EXAMINATION         2       BY MS. GAFKEN:         3       Q. Good morning. Would you please state and spell         4       your name for the record?         5       A. My name is Chris McGuire. My last name is         6       spelled M-c-G-u-i-r-e.         7       MS. GAFKEN: Mr. McGuire's exhibits and         8       testimony has already been entered into the record, and         9       so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       questions from the bench?         12       EXAMINATION         13       BY CHAIR DANNER:         14       Q. All right, sir. Thank you very much. Good         15       morning, Mr. McGuire.         16       A. Good morning.         17       Q. In your response testimony, you identify a         18       significant variance in the company's provisional plant         19       filing related to AMI related to the AMI project.         20       Specifically, you testified the level of plant in the         21       review filing was 132.6 million lower than that included         22       in the forecasted plans.  |
|  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>20<br>21<br>22<br>23<br>24 | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1       DIRECT EXAMINATION         2       BY MS. GAFKEN:         3       Q. Good morning. Would you please state and spell         4       your name for the record?         5       A. My name is Chris McGuire. My last name is         6       spelled M-c-G-u-i-r-e.         7       MS. GAFKEN: Mr. McGuire's exhibits and         8       testimony has already been entered into the record, and         9       so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       questions from the bench?         12       EXAMINATION         13       BY CHAIR DANNER:         14       Q. All right, sir. Thank you very much. Good         15       morning, Mr. McGuire.         16       A. Good morning.         17       Q. In your response testimony, you identify a         18       significant variance in the company's provisional plant         19       filing related to AMI related to the AMI project.         20       Specifically, you testified the level of plant in the         21       review filing was 132.6 million lower than that included         22       And on rebuttal, PSE Witness Free responded to  |
|  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>20<br>21<br>22<br>23<br>24 | EXAMINATION INDEX (Continuing)<br>EXAMINATION OF: PAGE NO.<br>Kevin C. Higgins<br>Direct examination by Ms. Baker 343 | 1       DIRECT EXAMINATION         2       BY MS. GAFKEN:         3       Q. Good morning. Would you please state and spell         4       your name for the record?         5       A. My name is Chris McGuire. My last name is         6       spelled M-c-G-u-i-r-e.         7       MS. GAFKEN: Mr. McGuire's exhibits and         8       testimony has already been entered into the record, and         9       so he is now available for questions.         10       JUDGE HUGHES: Thank you. Do we have         11       questions from the bench?         12       EXAMINATION         13       BY CHAIR DANNER:         14       Q. All right, sir. Thank you very much. Good         15       morning, Mr. McGuire.         16       A. Good morning.         17       Q. In your response testimony, you identify a         18       significant variance in the company's provisional plant         19       filing related to AMI related to the AMI project.         20       Specifically, you testified the level of plant in the         21       review filing was 132.6 million lower than that included         22       And on rebuttal, PSE Witness Free responded to         23       And on rebuttal, PSE Witness Free and indicated |

|  | Page 294   |  | Page 296  |
|--|--|--|---|
| 1  | this DR 327, which is included in her Exhibit 47,  | 1  | That's very helpful. Commissioner?  |
| 2  | explaining the variance is due to, quote, timing   | 2  | EXAMINATION   |
| 3  | differences and that the actual spend is higher by   | 3  | BY COMMISSIONER RENDAHL:  |
| 4  | approximately a million dollars than forecasted in the   | 4  | Q. Just to follow up. And so I do understand that   |
| 5  | 2022 GRC.  | 5  | that matter is on our meeting agenda, the provisional   |
| 6  | Have you reviewed the data request response  | 6  | plan issue, for Thursday.   |
| 7  | that I just referenced? This is, again, DR 327.  | 7  | A. That's correct.  |
| 8  | A. I believe so, yes.  | 8  | Q. And so we may have an opportunity to address   |
| 9  | Q. Okay. Are you satisfied with the explanation  | 9  | the concern that you just raised in that open meeting as  |
| 10   | provided by Puget in that data request?  | 10   | well.   |
| 11   | A. I guess I would insert a little differently.  | 11   | Is that your understanding?   |
| 12   | When I filed my responsive testimony, the issue that I   | 12   | A. It is. I have not had a chance to look at the  |
| 13   | teed up with respect to AMI was an issue that was being  | 13   | agenda. I'm not sure if this is an item on the  |
| 14   | addressed in a separate docket.  | 14   | discussion agenda or not. If it is, then, yes, you have   |
| 15   | It was the annual capital review for the prior   | 15   | an opportunity to further discuss.  |
| 16   | calendar year, and I believe the docket dockets,   | 16   | And there may be an informational memo that   |
| 17   | plural, were UE-240779 and UG-240780.  | 17   | staff circulates at some point that describes this issue  |
| 18   | Since I filed responsive testimony, the issue  | 18   | and staff's perspective on it, but the issue that I   |
| 19   | that I had identified was resolved to staff's  | 19   | raise in this case is the issue of what happens when we   |
| 20   | satisfaction in those dockets. There is  | 20   | use a portfolio approach to the annual plant reviews and  |
| 21   | Q. I'm sorry. Would you give me those docket   | 21   | what circumstances may warrant deviation from a stripped  |
| 22   | numbers again?   | 22   | portfolio approach.   |
| 23   | A. Yeah. UE-240779 and UG-240780.  | 23   | And identifying that the possibility of   |
| 24   | Q. Thank you.  | 24   | mistakes being made and forecasts was one example I gave  |
| 25   | A. So from staff's perspective, the issue of the   | 25   | for possibly needing to deviate from strict portfolio   |
|  | Page 295   |  |   |
|  | rage 200   |  | Page 297  |
| 1  |  | 1  |   |
| 1<br>2   | variance or the the error was largely resolved for   | 1  | approach to the annual capital reviews.   |
| 1<br>2<br>3  | variance or the the error was largely resolved for<br>for AMI.   | 1<br>2<br>3  | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda  |
| 2  | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my  | 2  | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda<br>right now, just for clarification.  |
| 2<br>3   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission   | 2<br>3   | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda<br>right now, just for clarification.<br>So turning to the issue of reserve  |
| 2<br>3<br>4  | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my  | 2<br>3<br>4  | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda<br>right now, just for clarification.  |
| 2<br>3<br>4<br>5   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.   | 2<br>3<br>4<br>5   | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda<br>right now, just for clarification.<br>So turning to the issue of reserve<br>contingencies, I'm sure you were here yesterday for the   |
| 2<br>3<br>4<br>5<br>6  | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,   | 2<br>3<br>4<br>5<br>6  | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda<br>right now, just for clarification.<br>So turning to the issue of reserve<br>contingencies, I'm sure you were here yesterday for the<br>hearing?   |
| 2<br>3<br>4<br>5<br>6<br>7   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of   | 2<br>3<br>4<br>5<br>6<br>7   | approach to the annual capital reviews.<br>Q. Thank you. And it is on the no action agenda<br>right now, just for clarification.<br>So turning to the issue of reserve<br>contingencies, I'm sure you were here yesterday for the<br>hearing?<br>A. I was.  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection   | 2<br>3<br>4<br>5<br>6<br>7<br>8  | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.</li> <li>So turning to the issue of reserve</li> <li>contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.</li> <li>So turning to the issue of reserve</li> <li>contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal</li> </ul>   |
| 2<br>3<br>5<br>6<br>7<br>8<br>9<br>10  | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve</li> <li>contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve</li> <li>contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve</li> <li>contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.<br/>And do you have a response to that testimony in from her rebuttal?</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.<br/>And do you have a response to that testimony in from her rebuttal?</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.<br/>And do you have a response to that testimony in from her rebuttal?</li> <li>A. Yes, I do. It was never clear to me throughout my review of the company's O&amp;M budget or its responses</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.<br>I used it in the sense of a mistake. So I just<br>want to be clear that I was referring to circumstances  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> <li>And do you have a response to that testimony in from her rebuttal?</li> <li>A. Yes, I do. It was never clear to me throughout my review of the company's O&amp;M budget or its responses to discovery or its rebuttal testimony what these</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.<br>I used it in the sense of a mistake. So I just<br>want to be clear that I was referring to circumstances<br>where there is a mistake in the projection, not if  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> <li>And do you have a response to that testimony in from her rebuttal?</li> <li>A. Yes, I do. It was never clear to me throughout my review of the company's O&amp;M budget or its responses to discovery or its rebuttal testimony what these reserve contingencies or the management reserves, for</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.<br>I used it in the sense of a mistake. So I just<br>want to be clear that I was referring to circumstances<br>where there is a mistake in the projection, not if<br>not circumstances where there is some variance in                                   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> <li>And do you have a response to that testimony in from her rebuttal?</li> <li>A. Yes, I do. It was never clear to me throughout my review of the company's O&amp;M budget or its responses to discovery or its rebuttal testimony what these reserve contingencies or the management reserves, for that matter, actually pertained to, and the fact that,</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.<br>I used it in the sense of a mistake. So I just<br>want to be clear that I was referring to circumstances<br>where there is a mistake in the projection, not if<br>not circumstances where there is some variance in<br>between forecasts and actuals. | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> <li>And do you have a response to that testimony in from her rebuttal?</li> <li>A. Yes, I do. It was never clear to me throughout my review of the company's O&amp;M budget or its responses to discovery or its rebuttal testimony what these reserve contingencies or the management reserves, for that matter, actually pertained to, and the fact that, on rebuttal, the company now claims that the reserve</li> </ul> |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | variance or the the error was largely resolved for<br>for AMI.<br>My purpose for bringing up that issue in my<br>responsive testimony was not to have the commission<br>address that issue specifically in these dockets here,<br>in this GRC.<br>My purpose was to just provide an example of<br>where, if there is a mistake in a company's projection<br>of the level of plant it expects to be placed in service<br>and that mistake is later uncovered, the commission<br>should take that mistake into account when deciding what<br>amounts to refund to customers. The company shouldn't<br>continue to be compensated for a mistake.<br>PSE Witness Free, I think, inaccurately<br>characterized my position on this issue. I am not<br>saying that the commission should refund to ratepayers<br>any variance. I wasn't I didn't use the term "error"<br>in the sense of of, you know, forecasting error or,<br>you know, forecasting variance.<br>I used it in the sense of a mistake. So I just<br>want to be clear that I was referring to circumstances<br>where there is a mistake in the projection, not if<br>not circumstances where there is some variance in                                   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>approach to the annual capital reviews.</li> <li>Q. Thank you. And it is on the no action agenda right now, just for clarification.<br/>So turning to the issue of reserve contingencies, I'm sure you were here yesterday for the hearing?</li> <li>A. I was.</li> <li>Q. And heard Witness Huizi testify about these issues as well. So in PSE Witness Huizi's rebuttal testimony and if you want the reference, I can give it to you, but I think you understand the issue she testifies that the amounts for reserve contingencies that you contest represent the clean energy implementation planner CEIP-related costs that are being moved from PSE's current CEIP tracker mechanism into base rates in this proceeding.</li> <li>And do you have a response to that testimony in from her rebuttal?</li> <li>A. Yes, I do. It was never clear to me throughout my review of the company's O&amp;M budget or its responses to discovery or its rebuttal testimony what these reserve contingencies or the management reserves, for that matter, actually pertained to, and the fact that,</li> </ul>  |

|          | . Puget Sound Energy / In the Matter or: Puget Sound Energy          | Dock     | ket Nos. DE-240004, DG-240005, and DE-230810 (Consolidated) - Vo |
|----------|--|----------|--|
|          | Page 298   |          | Page 300   |
| 1        | somewhat of a surprise because, through the discovery                | 1        | JUDGE HUGHES: Thank you. You are dismissed                       |
| 2        | process, the company had a number of opportunities to                | 2        | or excused.  |
| 3        | explain what those expenses were, what that reserve                  | 3        | CHAIR DANNER: There's redirect.                                  |
| 4        | contingency pertained to, and it and it never did                    | 4        | JUDGE HUGHES: Oh.  |
| 5        | that.  | 5        | CHAIR DANNER: Is there redirect?                                 |
| 6        | I am still unpersuaded that the reserve                              | 6        | JUDGE HUGHES: It wasn't cross; right?                            |
| 7        | contingency was specifically for CEIP-related costs. A               | 7        | CHAIR DANNER: Okay. Never mind.                                  |
| 8        | reserve contingency is is, well, a reserve for a                     | 8        | JUDGE HUGHES: We are going to Robert Earle                       |
| 9        | contingency. That's why an amount is identified in the               | 9        | next. Welcome.   |
| 10       | budget.  | 10       | MR. EARLE: Thank you.  |
| 11       | It would have been much simpler for the company                      | 11       | JUDGE HUGHES: Please raise your right hand.                      |
| 12       | to have just said that these are specific CEIP-related               | 12       | ROBERT EARLE, having been first duly sworn                       |
| 13       | costs and identified them as such in their data request              | 13       | testified as follows:  |
| 14       | responses or in their work papers than calling it a                  | 14       | JUDGE HUGHES: Very good. Please introduce                        |
| 15       | reserve contingency and expecting parties to figure out              | 15       | the witness.   |
| 16       | what that's supposed to mean.  | 16       | DIRECT EXAMINATION   |
| 17       | So I I'm unconvinced. I don't know that the                          | 17       | BY MS. JOHANSON-KUBIN:   |
| 18       | record indicates that those are, in fact, CEIP-related               | 18       | Q. Will you please state your name and spell your                |
| 19       | expenses that have been moved from a cost recovery                   | 19       | name for the record?   |
| 20       | mechanism into the company's forecasted O&M expense.                 | 20       | A. My name is Robert Earle, R-o-b-e-r-t,                         |
| 21       | I think, if I were the commissioners, I may                          | 21       | E-a-r-l-e.   |
| 22       | want some additional information on or some                          | 22       | MS. JOHANSON-KUBIN: Mr. Earle's testimony                        |
| 23       | additional proof that that is, in fact, what that                    | 23       | and exhibits have been admitted into evidence, and he's          |
| 24       | reserve contingency had had pertained to.                            | 24       | ready for questioning.   |
| 25       | I'll also note, though, that, in my review of                        | 25       | ////   |
|          | Page 299   |          | Page 301   |
| 1        | the company's O&M expense, my primary objective is to                | 1        | EXAMINATION  |
| 2        | determine whether or not an identified cost meets the                | 2        | BY COMMISSIONER DOUMIT:  |
| 3        | commission's standard or ratemaking standards.                       | 3        | Q. So, Mr. Earle, a few questions on power costs.                |
| 4        | And for these costs at issue, in particular,                         | 4        | On rebuttal, PSE states through Witness Mueller that it          |
| 5        | the reserve contingency and the management reserves,                 | 5        | has increased its power cost forecast by 18.5 percent in         |
| б        | they're as the company had testified, those costs are                | 6        | rate year one and by 8.7 percent in rate year two,               |
| 7        | in constant flux.  | 7        | claiming that most of the increase is due to new power           |
| 8        | I was unable to track what numbers the company                       | 8        | purchase agreements signed since the direct testimony            |
| 9        | was actually including in its O&M expense related to                 | 9        | was filed.   |
| 10       | those items. There were different numbers different                  | 10       | Has public counsel had an opportunity or, in                     |
| 11       | amounts in the work papers of two different witnesses.               | 11       | particular, an adequate opportunity to review those PPAs         |
| 12       | Kensok's work papers contained reserve amounts that were             | 12       | and other increases?   |
| 13       | different than work papers that Witness Free provided.               | 13       | A. We did take a look at those PPAs.                             |
| 14       | And the fact that these numbers were in                              | 14       | Q. Have you found any concern at all with those                  |
| 15       | constant flux is a good indication that they these                   | 15       | PPAs or any other additions to power costs the power             |
| 16       | costs are not known. They're not measurable. They                    | 16       | cost forecast?   |
| 17       | don't represent actual known costs and don't meet the                | 17       | A. So one of my concerns has to do with the                      |
| 18       | commission's rules on pro forma adjustments.                         | 18       | excuse me the Sinclair contract that I detail in my              |
| 19       | COMMISSIONER RENDAHL: Thank you. Do my                               | 19       | testimony. Basically I believe that they pay too much            |
| 20<br>21 | colleagues have any follow-up? And if not, that's                    | 20       | for capacity on that contract compared with their                |
| 21       | really all the questions.  | 21<br>22 | contemporaneous evaluation of capacity for another               |
| 22       | Thank you for being available today.<br>THE WITNESS: You're welcome. | 22       | contract.<br>Q. So can you just maybe describe a little more     |
| 23<br>24 | CHAIR DANNER: Yeah. No further questions.                            | 23       | clearly the alternative methodology that you're that             |
| 25       | Thank you.   | 24       | you would suggest for that contract, calculating the             |
| 2.5      | manix you.   | 25       | שיש איטעות שעשעטי וטי נומו טטוונומטו, טמוטעומנוווץ נווכ          |

4 (Pages 298 to 301)

| Page 302       Page 304         1       A. Sure. Sure. So Im trying to think how to do       1       So they don't really they don't give a       2         2       this without revealing any confidential information. I       1       So they don't really they don't give a       1         4       Basically Puge Sound Energy details a       1       So they don't really they hydre Sound the than         5       methodology where they come up with prices for different       0       1       So they don't really they hydre Sound         6       Energy claims that thay. = Puget Sound       Energy claims that thay. = Puget Sound       1       1         9       Idential in my testimates of capacity value.       1       1       1       1         9       Idential in my testimates of capacity value.       1   | WOIC V. PU  | iget Sound Energy / In the Matter of: Puget Sound Energy | DOCK | (Consolidated) - Vol.                                   |
|---|-------------|--|------|---|
| 2       this without revealing any confidential information. I       2       reason why one is - why the Sinclair contract is - has         3       think I can, but I'm going to tread carefully here.       3       twice the capacity value per kilowatt than the - than         4       Basically Puget Sound Energy details a       5       twice the capacity value per kilowatt than the - than         5       methodology where they come up with prices for different       5       This to contract. (ne of those components is         6       components of a contract. One of the same time of the Sinclair - and       6       Energy claims that that, well, I don't - I'm somehow         10       as I detail in my testimony, there are problems with       10       capacity. What I'm saying is, well, they don't         11       using the components that they list, partaily because       11       The components.       11         14       with using those because they're combined with other       13       and buy the contemporaneous evaluation. They appear to         16       One of the components that uses of the contervailing revenues that the gas fre       16       they read to much for what they use of the sinclair         16       for new entry or CONE from WRAP that WARP uses. The       18       you know, an analogon yight be to say, well, if         17       for new entry or CONE from WRAP that Wathe gas fre       you know, analogoush here, I   |             | Page 302   |      | Page 304  |
| 2       this without revealing any confidential information. I       2       reason why one is - why the Sinclair contract is - has         3       think I can, but I'm going to tread carefully here.       3       twice the capacity value per kilowatt than the - than         4       Basically Puget Sound Energy details a       5       twice the capacity value per kilowatt than the - than         5       methodology where they come up with prices for different       5       This to contract. (ne of those components is         6       components of a contract. One of the same time of the Sinclair - and       6       Energy claims that that, well, I don't - I'm somehow         10       as I detail in my testimony, there are problems with       10       capacity. What I'm saying is, well, they don't         11       using the components that they list, partaily because       11       The components.       11         14       with using those because they're combined with other       13       and buy the contemporaneous evaluation. They appear to         16       One of the components that uses of the contervailing revenues that the gas fre       16       they read to much for what they use of the sinclair         16       for new entry or CONE from WRAP that WARP uses. The       18       you know, an analogon yight be to say, well, if         17       for new entry or CONE from WRAP that Wathe gas fre       you know, analogoush here, I   | 1           | A. Sure. Sure. So I'm trying to think how to do          | 1    | So they don't really they don't give a                  |
| 4       Basically Puget Sound Energy details a       4       the other - other contract the hydro contract.         5       methodology where they come up with prices for different       6         6       components of a contract. One of those components is       1         7       the other - other contract the hydro contract.         8       table that various estimates of capacity value.       5         9       So around the same time of the Sinclair - and       1         10       as I detail in my testimony, there are problems with       10         11       using the components that they its, paratialy because       11         12       they resort of self-referential to their own bids.       12         13       Some bids succeeded, some didn't, but there are problems       14         14       with using those because they're combined with other       10         15       one of the components that they ibe cost       16         16       of new entry or CONE from WRAP that WRAP uses. The       17         17       problem with using that shale of using what should be       17         18       problem with using that shoule of on the CONE value.       10         19       into account countervailing revenues that the gas fire       10         10       ner coNE, they use ismy th  | 2 th        | nis without revealing any confidential information. I    | 2    | reason why one is why the Sinclair contract is has      |
| 5       methodology where they come up with prices for different components of a contract. One of those components is table that vanues, and in particular, they develop a table that vanues, and in particular, they develop a table that vanues estimates of capacity value.       I like to emphasize that theyPuget Sound         9       So around the same time of the Sinclair - and as I detail in my testimony, there are problems with using the components that they list, partially because       I don't argue that they don't         11       using the components that they list, partially because       I don't argue that they don't         12       they re sort of self-referential to their own bids.       I don't argue that they don't         13       Some bids succeeded, some didn't, but there are problems with using those because they're combined with other       I don't argue that they don't         14       with using those because they're combined with other       To me of the components they use also is the cost       To me onthe components that use also is the cost         16       One of the components that the gas fire       generation that the CONE, is based on.       To we antry or CONE from WRAP that WRAP uses. The problem with using that value is that it doesn't take       To we antry or cone they use simply the CONE value.         20       generation that the CONE, is based on.       Page 303         21       And so what instead of using what should be justify the capacity value they use for the Sinclair       So So So Men they when in their materials to justify  | 3 th        | nink I can, but I'm going to tread carefully here.       | 3    | twice the capacity value per kilowatt than the than     |
| 6       components of a contract. One of those components is the capacity price, and in particular, they develop a       Energy claims that that, well, I don't I'm somehow saying, well, they don't meet capacity. That's not what I ms saying.         9       So around the same time of the Sinclair and as I detail in my testimony, there are problems with using the components that they list, partially because       I don't argue that walous is, well, they don't I'm somehow saying, well, they don't meet the capacity. What I'm saying is, well, they don't I'm somehow they components that they list, partially because         10       as I detail in my testimony, there are problems with using these because they're combined with other components.       I don't argue that they don't I'm somehow they components.         11       using the components that they use also is the cost of new entry or CONE from WTAP I that WRAP uses. The into account countervailing revenues that the gas fire generation that the CONE is based on.       You know, an analogy might be to say, well, if they need to buy cars - new cars for their vehicle fleet, you know, analogously here, I'm saying they appear to have paid too much for what they've got by the contervailing revenues that the gas fire into account countervailing revenues that the gas fire going to use" without any justification for why they used it.       20       Vou know, analogously here, I'm saying they appear to have paid too much for what they've got by their own contemporaneous valuation.       Q. Okay. Than's you.         23       So when they when in their materials to justify the capacity value they uses for the Sinclair       24         24       contract, they refer to the   | 4           | Basically Puget Sound Energy details a                   | 4    | the other other contract the hydro contract.            |
| 7       the capacity price, and in particular, they develop a       7       saying, well, they don't meet capacity. That's not what         8       table that various estimates of capacity value.       7       saying, well, they don't meet capacity. That's not what         9       So around the same time of the Sinclair - and       1       1       I don't argue that they don't meet the         10       as I detail in my testimony, there are problems with       10       ad buy the components that they list, partially because         11       using the components.       10       and buy the components.         14       with using those because they're combined with other       10       and buy the components.         16       One of the components.       10       They meety buy what they you say, well, should you pay 80,000 per car of 60,000         19       into account countervailing revenues that the gas fire       10       10       You know, analogously here, I'm saying they         20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they         21       And so what instead of using what should be       10       21       You know, analogously here, I'm saying they         22       papear to have paid too much for what they've got by       22       You know, analogously here, I'm saying they         23       So when they   | 5 m         | nethodology where they come up with prices for different | 5    | I like to emphasize that they Puget Sound               |
| 8       table that various estimates of capacity value.       8       I'm saying.         9       So around the same time of the Sinclair - and       9       I'm saying.         10       as I detail in my testimory, there are problems with       10         11       using the components that they list, partially because       11       they're sort of self-referential to their own bids.         13       Some bids succeeded, some dight, but there are problems       11       they re ot of self-referential to their own bids.         14       with using those because they're combined with other       12       have paid to much.         16       One of the components they use also is the cost       16       they need to buy cars - new cars for their vehicle         16       One of the components they use also is the cost       16       fleet, you know, you can argue about whether they need         17       of new entry or CONE from WRAP that WRAP uses. The       16       fleet, you know, analogously here, I'm saying they         19       into account countervailing revenues that the gas fire       19       You know, analogously here, I'm saying they         20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they         21       And so what instead of using what should be       21       And so whet in they made the   | б со        | omponents of a contract. One of those components is      | 6    | Energy claims that that, well, I don't I'm somehow      |
| 9       So around the same time of the Sinclair and       9       Idon't argue that they don't meet the         10       as I detail in my testimony, there are problems with       10       capacity. What I'm saying is, well, they don't         11       using the components that they list, partially because       11       they they buy what they've said and buy the record         12       they free sort of self-referential to their own bids.       12       and buy the contemporaneous evaluation. They appear to         13       Some bids succeeded, some didn't, but there are problems       11       they they buy what they've said and buy the record         14       with using those because they're combined with other       12       and buy the contemporaneous evaluation. They appear to         16       One of the components they use also is the cost       16       fleet, you know, an analogumight be to say, well, if         17       of new entry or CONE from WRAP that WRAP uses. The       18       you say, well, should you pay 80,000 per car or 60,000         19       into account countervailing revenues that the gas fire       19       you know, analogously here, I'm saying they         20       And so what instead of using what should be       21       And so what in their materials to       22         22       they use - they use simply the CONE value.       23       So that's that's also overstated. <td>7 th</td> <td>ne capacity price, and in particular, they develop a</td> <td>7</td> <td>saying, well, they don't meet capacity. That's not what</td>  | 7 th        | ne capacity price, and in particular, they develop a     | 7    | saying, well, they don't meet capacity. That's not what |
| 10       as I detail in my testimony, there are problems with       10       capacity. What I'm saying is, well, they don't         11       using the components that they list, partially because       10       and buy the contemporaneous evaluation. They appear to         12       they're sort of self-referential to their own bids.       10       and buy the contemporaneous evaluation. They appear to         14       with using those because they're combined with other       10       nad buy the contemporaneous evaluation. They appear to         15       One of the components they use also is the cost       10       have paid too much.         16       One of the components they use also is the cost       10       they need to buy cars new cars for their vehicle         16       of new entry or CONE from WRAP that WRAP uses. The       10       you know, an analogy might be to say, well, if         17       of new entry or CONE is based on.       11       You know, analogously here, I'm saying they         18       problem with using they use they use simply the CONE value.       12       and buy the contemporaneous valuation.         20       generation that the CONE is based on.       20       you know, analogously here, I'm saying they         21       And so what instead of using what should be       12       and buy the contemporaneous valuation.         22       net CONE, they use -   | 8 ta        | able that various estimates of capacity value.           | 8    | I'm saying.   |
| 10       as I detail in my testimony, there are problems with       10       capacity. What I'm saying is, well, they don't         11       using the components that they list, partially because       11       they   | 9           | So around the same time of the Sinclair and              | 9    | I don't argue that they don't meet the                  |
| 12       they're sort of self-referential to their own bids.       12       and buy the contemporaneous evaluation. They appear to have paid too much.         13       Some bids succeeded, some didn't, but there are problems with using those because they're combined with other       13       have paid too much.         14       with using those because they're combined with other       14       You know, an analogy might be to say, well, if         15       components.       14       You know, an analogy might be to say, well, if         16       One of the components they use also is the cost       16       fleet, you know, you can argue about whether they need the cars, you say, well, should you pay 80,000 per car or 60,000         19       into account countervaling revenues that the gas fire       18       you say, well, should you pay 80,000 per car or 60,000         20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they appear to have paid too much for what they've got by         21       And so what instead of using what should be       21       appear to have paid too much for what they've got by         22       net CONE, they use they uses of the Sinclair       24       So when they when in their materials to       24         25       justify the capacity value they use for the Sinclair       24       Ye got one more question, if my colleagues         26       one of the  | 10 <b>a</b> | s I detail in my testimony, there are problems with      | 10   | capacity. What I'm saying is, well, they don't          |
| 13       Some bids succeeded, some didn't, but there are problems       13       have paid too much.         14       with using those because they're combined with other       14         15       components.       You know, an analogy might be to say, well, if         16       One of the components they use also is the cost       15         17       of new entry or CONE from WRAP that WRAP uses. The       15         18       problem with using that value is that it doesn't take       19         19       into account countervailing revenues that the gas fire       19         20       generation that the CONE is based on.       19         21       And so what instead of using what should be       19         23       So that's that's also overstated.       24         24       So when they when in their materials to       24         25       justify the capacity value they use for the Sinclair       24         26       one of the values and say, "Well, this is the one we're       2         3       going to use" without any justification for why they       1         4       used it.       5         5       At the same time, right around the same period,       5         6       so within a month, they entered into one contract, and       7  | 11 US       | sing the components that they list, partially because    | 11   | they they buy what they've said and buy the record      |
| 14       with using those because they're combined with other       14       You know, an analogy might be to say, well, if         15       components.       16       One of the components they use also is the cost         16       One of the components they use also is the cost       16         17       of new entry or CONE from WRAP that WRAP uses. The       16         18       problem with using that value is that it doesn't take       16         19       into account countervailing revenues that the gas fire       17         20       generation that the CONE is based on.       10         21       And so what instead of using what should be       16         22       net CONE, they use they use simply the CONE value.       23         23       So that's that's also overstated.       23         24       So when they when in their materials to       24         25       justify the capacity value they use for the Sinclair       24         26       Dage 303       Page 303         1       contract, they refer to the table and simply pick out       1       So PSE Witness Mueller and I can give you         2       the same time, right around the same period,       5       So refer prudency reviews for PPAs but not for power cost calculation         3       going to use" withou  | 12 th       | ney're sort of self-referential to their own bids.       | 12   | and buy the contemporaneous evaluation. They appear to  |
| 15       components.       15       they need to buy cars new cars for their vehicle         16       One of the components they use also is the cost       16       fleet, you know, you can argue about whether they need         17       of new entry or CONE from WRAP that WRAP uses. The       16       fleet, you know, you can argue about whether they need         18       problem with using that value is that it doesn't take       17       the cars or not, but accepting that they need the cars,         19       into account countervailing revenues that the gas fire       18       you say, well, should you pay 80,000 per car or 60,000         20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they         21       And so what instead of using what should be       20       You know, analogously here, I'm saying they         23       So that's that's also overstated.       23       0. Okay. Thank you.         24       So when they when in their materials to       24       Ve got one more question, if my colleagues         25       justify the capacity value they use for the Sinclair       24       So PSE Witness Mueller and I can give you         24       used it.       1       So PSE Witness Mueller and I can give you       24         3       other wise, Mueller states that the company is willing to       26   | 13 S        | Some bids succeeded, some didn't, but there are problems | 13   | have paid too much.                                     |
| 15       components.       15       they need to buy cars new cars for their vehicle         16       One of the components they use also is the cost       16       fleet, you know, you can argue about whether they need         17       of new entry or CONE from WRAP that WRAP uses. The       16       fleet, you know, you can argue about whether they need         18       problem with using that value is that it doesn't take       17       the cars or not, but accepting that they need the cars, you say, well, should you pay 80,000 per car or 60,000         19       into account countervailing revenues that the gas fire       19       you say, well, should you pay 80,000 per car or 60,000         20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they         21       And so what instead of using what should be       22       the orne proaneous valuation.         23       So that's that's also overstated.       23       Q. Okay. Thank you.         24       So when they when in their materials to       24       I've got one more question, if my colleagues         25       justify the capacity value they use for the Sinclair       24       I've got one more question, if my colleagues         2       file       file       file       file         2       contract, they refer to the table and simply pick out       1   | 14 w        | vith using those because they're combined with other     | 14   | You know, an analogy might be to say, well, if          |
| 17of new entry or CONE from WRAP that WRAP uses. The<br>problem with using that value is that it doesn't take17the cars or not, but accepting that they need the cars,<br>you say, well, should you pay 80,000 per car or 60,000<br>per car?18problem with using that value is that it doesn't take181920generation that the CONE is based on.1921And so what instead of using what should be2023So that's that's also overstated.2324So when they when in their materials to2425justify the capacity value they use for the Sinclair2426Contract, they refer to the table and simply pick out243going to use" without any justification for why they14used it.15At the same time, right around the same period,56so within a month, they entered into one contract, and67then they made the bid on the other. They made a bid8that was half using half the value of of the9about half, speaking roughly here, of the value they10used for the Sinclair contract.11Now, both bids were successful, and so it leads  | 15 <b>c</b> | omponents.   | 15   | they need to buy cars new cars for their vehicle        |
| 18       problem with using that value is that it doesn't take       18       you say, well, should you pay 80,000 per car or 60,000         19       into account countervailing revenues that the gas fire       19       you say, well, should you pay 80,000 per car or 60,000         20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they         21       And so what instead of using what should be       21       appear to have paid too much for what they've got by         23       So that's that's also overstated.       23       Q. Okay. Thank you.         24       So when they when in their materials to       24       You say, well, should you pay 80,000 per car or 60,000         25       justify the capacity value they use for the Sinclair       23       Q. Okay. Thank you.         24       So when they when in their materials to       24       I've got one more question, if my colleagues         25       justify the capacity value they use for the Sinclair       25       So PSE Witness Mueller and I can give you         2       one of the values and say, "Well, this is the one we're       3       3       OPSE Witness for PPAs but not for power cost         3       going to use" without any justification for why they       4       So PSE Witness for PPAs but not for power cost       forecast methodologies.         4  | 16          | One of the components they use also is the cost          | 16   | fleet, you know, you can argue about whether they need  |
| 19       into account countervailing revenues that the gas fire       19       per car?         20       generation that the CONE is based on.       20         21       And so what instead of using what should be       21         22       net CONE, they use they use simply the CONE value.       22         23       So that's that's also overstated.       23         24       So when they when in their materials to       23         25       justify the capacity value they use for the Sinclair       24         25       justify the capacity value they use for the Sinclair       24         26       contract, they refer to the table and simply pick out       25         26       one of the values and say, "Well, this is the one we're       3         3       going to use" without any justification for why they       3         4       used it.       5         5       At the same time, right around the same period,       5         6       so within a month, they entered into one contract, and       6         7       then they made the bid on the other They made a bid       8         8       that was half using half the value of of the       9         9       about half, speaking roughly here, of the value they       9  | 17 of       | f new entry or CONE from WRAP that WRAP uses. The        | 17   | the cars or not, but accepting that they need the cars, |
| 20       generation that the CONE is based on.       20       You know, analogously here, I'm saying they         21       And so what instead of using what should be       21       appear to have paid too much for what they've got by         22       net CONE, they use they use simply the CONE value.       23       So that's that's also overstated.       23         24       So when they when in their materials to       24       1       I've got one more question, if my colleagues         25       justify the capacity value they use for the Sinclair       24       I've got one more question, if my colleagues         26       contract, they refer to the table and simply pick out       25       have follow-ups.         20       one of the values and say, "Well, this is the one we're       3       going to use" without any justification for why they         3       so within a month, they entered into one contract, and       1       So PSE Witness Mueller and I can give you         4       used it.       4       defer prudency reviews for PPAs but not for power cost         5       At the same time, right around the same period,       6       What does public counsel understand to be the         7       then they made the bid on the other. They made a bid       7       What does public counsel understand to be the         8       that was half using half the value   | 18 p        | roblem with using that value is that it doesn't take     | 18   | you say, well, should you pay 80,000 per car or 60,000  |
| 21       And so what instead of using what should be       21       appear to have paid too much for what they've got by         22       net CONE, they use they use simply the CONE value.       23       So that's that's also overstated.       23         24       So when they when in their materials to       24       So when they use for the Sinclair       24         25       justify the capacity value they use for the Sinclair       24       Contract, they refer to the table and simply pick out       24         2       one of the values and say, "Well, this is the one we're       3       going to use" without any justification for why they         3       going to use" without any justification for why they       3       otherwise, Mueller states that the company is willing to         4       used it.       5       At the same time, right around the same period,       6         5       At the same time, right around the same period,       6       6         6       that was half using half the value of of the       9       about half, speaking roughly here, of the value they         10       used for the Sinclair contract.       10       what does public course of power cost calculation         11       Now, both bids were successful, and so it leads       11       know, any change in methodology appears, you know, that   | 19 in       | nto account countervailing revenues that the gas fire    | 19   | per car?  |
| 22       net CONE, they use they use simply the CONE value.       22       their own contemporaneous valuation.         23       So that's that's also overstated.       23       So when they when in their materials to         24       So when they when in their materials to       24       24       Cokay. Thank you.         25       justify the capacity value they use for the Sinclair       24       Page 303       Page 305         1       contract, they refer to the table and simply pick out       1       So PSE Witness Mueller and I can give you         2       one of the values and say, "Well, this is the one we're       1       So PSE Witness Mueller and I can give you         3       going to use" without any justification for why they       3       otherwise, Mueller states that the company is willing to         4       used it.       5       At the same time, right around the same period,       6         5       so within a month, they entered into one contract, and       7       6         7       then they made the bid on the other. They made a bid       7         8       that was half using half the value of of the       9       A. Well, I so so right now it seems to me,         9       used for the Sinclair contract.       10       wow, any change in methodology appears, you know, that  | 20 g        | eneration that the CONE is based on.                     | 20   | You know, analogously here, I'm saying they             |
| 23       So that's that's also overstated.       23       Q. Okay. Thank you.         24       So when they when in their materials to       24       I've got one more question, if my colleagues         25       justify the capacity value they use for the Sinclair       24       I've got one more question, if my colleagues         25       page 303       Page 305         1       contract, they refer to the table and simply pick out       1       So PSE Witness Mueller and I can give you         2       one of the values and say, "Well, this is the one we're       3       going to use" without any justification for why they         4       used it.       5       At the same time, right around the same period,       5         5       At the same time, right around the same period,       6       So within a month, they entered into one contract, and         7       then they made the bid on the other. They made a bid       7       current method logies.         8       that was half using half the value of of the       8       methodologies?         9       about half, speaking roughly here, of the value they       9       A. Well, I so so right now it seems to me,         10       used for the Sinclair contract.       10       wow, any change in methodology appears, you know, that   | 21          | And so what instead of using what should be              | 21   | appear to have paid too much for what they've got by    |
| 24So when they when in their materials to<br>justify the capacity value they use for the Sinclair24I've got one more question, if my colleagues<br>have follow-ups.25justify the capacity value they use for the Sinclair24I've got one more question, if my colleagues<br>have follow-ups.26justify the capacity value they use for the Sinclair24I've got one more question, if my colleagues<br>have follow-ups.26Page 303Page 3051contract, they refer to the table and simply pick out<br>2 one of the values and say, "Well, this is the one we're<br>3 going to use" without any justification for why they<br>4 used it.1So PSE Witness Mueller and I can give you<br>the cite if you need it, but if you let me know, but<br>otherwise, Mueller states that the company is willing to<br>defer prudency reviews for PPAs but not for power cost<br>forecast methodologies.5At the same time, right around the same period,<br>6566so within a month, they entered into one contract, and<br>76What does public counsel understand to be the<br>current method for prudence of power cost calculation<br>methodologies?9about half, speaking roughly here, of the value they<br>109A. Well, 1 so so right now it seems to me,<br>you know, depending on where the methodology you<br>know, any change in methodology appears, you know, that  | 22 n        | et CONE, they use they use simply the CONE value.        | 22   | their own contemporaneous valuation.                    |
| 25       justify the capacity value they use for the Sinclair       25       have follow-ups.         Page 303         1       contract, they refer to the table and simply pick out         2       one of the values and say, "Well, this is the one we're         3       going to use" without any justification for why they       1       So PSE Witness Mueller and I can give you         4       used it.       1       So PSE Witness Mueller and I can give you         5       At the same time, right around the same period,       6       so within a month, they entered into one contract, and         7       then they made the bid on the other. They made a bid       6       What does public counsel understand to be the         8       that was half using half the value of of the       9       A. Well, I so so right now it seems to me,         9       used for the Sinclair contract.       10       you know, depending on where the methodology you         11       Now, both bids were successful, and so it leads       11       know, any change in methodology appears, you know, that  | 23 S        | So that's that's also overstated.                        | 23   | Q. Okay. Thank you.                                     |
| Page 303Page 3031contract, they refer to the table and simply pick out1So PSE Witness Mueller and I can give you2one of the values and say, "Well, this is the one we're1So PSE Witness Mueller and I can give you3going to use" without any justification for why they1So PSE Witness Mueller and I can give you4used it.2the cite if you need it, but if you let me know, but5At the same time, right around the same period,3otherwise, Mueller states that the company is willing to6so within a month, they entered into one contract, and6What does public counsel understand to be the7then they made the bid on the other. They made a bid7current methodologies.8that was half using half the value of of the8methodologies?9about half, speaking roughly here, of the value they9A. Well, I so so right now it seems to me,10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that  |             |  | 24   |   |
| 1contract, they refer to the table and simply pick out1So PSE Witness Mueller and I can give you2one of the values and say, "Well, this is the one we're1So PSE Witness Mueller and I can give you3going to use" without any justification for why they2the cite if you need it, but if you let me know, but4used it.3otherwise, Mueller states that the company is willing to5At the same time, right around the same period,6so within a month, they entered into one contract, and6so within a month, they entered into one contract, and6What does public counsel understand to be the7then they made the bid on the other. They made a bid7What does public counsel understand to be the8that was half using half the value of of the8methodologies?9about half, speaking roughly here, of the value they9A. Well, I so so right now it seems to me,10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that  | 25 ju       | ustify the capacity value they use for the Sinclair      | 25   | have follow-ups.  |
| 1contract, they refer to the table and simply pick out1So PSE Witness Mueller and I can give you2one of the values and say, "Well, this is the one we're1So PSE Witness Mueller and I can give you3going to use" without any justification for why they2the cite if you need it, but if you let me know, but4used it.3otherwise, Mueller states that the company is willing to5At the same time, right around the same period,6so within a month, they entered into one contract, and6so within a month, they entered into one contract, and6What does public counsel understand to be the7then they made the bid on the other. They made a bid7What does public counsel understand to be the8that was half using half the value of of the8methodologies?9about half, speaking roughly here, of the value they9A. Well, I so so right now it seems to me,10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that  |             | Page 303   |      | Page 305  |
| <ul> <li>one of the values and say, "Well, this is the one we're</li> <li>going to use" without any justification for why they</li> <li>used it.</li> <li>At the same time, right around the same period,</li> <li>so within a month, they entered into one contract, and</li> <li>then they made the bid on the other. They made a bid</li> <li>that was half using half the value of of the</li> <li>about half, speaking roughly here, of the value they</li> <li>used for the Sinclair contract.</li> <li>Now, both bids were successful, and so it leads</li> </ul>  | 1           | _  | 1    | _   |
| 3going to use" without any justification for why they<br>used it.3otherwise, Mueller states that the company is willing to<br>defer prudency reviews for PPAs but not for power cost5At the same time, right around the same period,<br>so within a month, they entered into one contract, and<br>then they made the bid on the other. They made a bid<br>that was half using half the value of of the<br>about half, speaking roughly here, of the value they<br>used for the Sinclair contract.3otherwise, Mueller states that the company is willing to<br>defer prudency reviews for PPAs but not for power cost<br>forecast methodologies.10Now, both bids were successful, and so it leads11New, any change in methodology appears, you know, that  |             |  |      |   |
| 4used it.4defer prudency reviews for PPAs but not for power cost5At the same time, right around the same period,5forecast methodologies.6so within a month, they entered into one contract, and6What does public counsel understand to be the7then they made the bid on the other. They made a bid7current method for prudence of power cost calculation8that was half using half the value of of the8methodologies?9about half, speaking roughly here, of the value they9A. Well, I so so right now it seems to me,10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that   |             | -  |      |   |
| 5At the same time, right around the same period,<br>so within a month, they entered into one contract, and5forecast methodologies.6so within a month, they entered into one contract, and6What does public counsel understand to be the<br>current method for prudence of power cost calculation7then they made the bid on the other. They made a bid7current method for prudence of power cost calculation8that was half using half the value of of the8methodologies?9about half, speaking roughly here, of the value they9A. Well, I so so right now it seems to me,10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that  |             |  |      |   |
| <ul> <li>so within a month, they entered into one contract, and</li> <li>then they made the bid on the other. They made a bid</li> <li>that was half using half the value of of the</li> <li>about half, speaking roughly here, of the value they</li> <li>used for the Sinclair contract.</li> <li>Now, both bids were successful, and so it leads</li> <li>Key State</li> &lt;</ul> |             |  |      |   |
| <ul> <li>then they made the bid on the other. They made a bid</li> <li>that was half using half the value of of the</li> <li>about half, speaking roughly here, of the value they</li> <li>used for the Sinclair contract.</li> <li>Now, both bids were successful, and so it leads</li> <li>then they made the bid on the other. They made a bid</li> <li>that was half using half the value of of the</li> <li>about half, speaking roughly here, of the value they</li> <li>used for the Sinclair contract.</li> <li>Now, both bids were successful, and so it leads</li> <li>the they made the bid on the other. They made a bid</li> <li>that was half using half the value of of the</li> <li>about half, speaking roughly here, of the value they</li> <li>A. Well, I so so right now it seems to me,</li> <li>you know, depending on where the methodology you</li> <li>know, any change in methodology appears, you know, that</li> </ul>  |             | ÷ .  |      |   |
| 8that was half using half the value of of the<br>about half, speaking roughly here, of the value they<br>used for the Sinclair contract.8methodologies?10used for the Sinclair contract.9A. Well, I so so right now it seems to me,<br>you know, depending on where the methodology you11Now, both bids were successful, and so it leads11  |             |  |      |   |
| 9about half, speaking roughly here, of the value they9A. Well, I so so right now it seems to me,10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that   |             |  |      |   |
| 10used for the Sinclair contract.10you know, depending on where the methodology you11Now, both bids were successful, and so it leads11know, any change in methodology appears, you know, that   |             | •  |      | -   |
| 11 Now, both bids were successful, and so it leads 11 know, any change in methodology appears, you know, that   |             |  |      | -   |
|   |             |  |      |   |
| $1 \pm 2$ one to worker, were wry did they - wry did they bld $1 \pm 2$ could - that could happen when they make a - you know,  |             |  |      |   |
| 13 almost twice for the Sinclair contract as they bid for 13 the forecast in this proceeding, if they change  |             |  |      |   |
| 14 the other? 14 something, or if they make it in in their annual   |             | •  |      |   |
| 15 And they don't really have a good reason. The 15 power cost cost review.   |             |  | 1    |   |
| 16best the best reason or really the only reason they16Since they don't want power forecasts to be in   |             | , , ,  |      |   |
| 17       can come up with is, well, they're two different types       17       the PCORE or GRC, I would assume that then what they're  |             |  |      |   |
| 18 of things. The Sinclair contract and Cogent is on 18 saying is, well, we want that to be whenever we make the  |             |  |      | · · · · · · · · · · · · · · · · · · ·                   |
| 19       Cogent facility, which basically has near 100 percent       19       power forecast or perhaps that would also include the   |             | с  |      |   |
| 20 low tech. In other words, it runs all the time. 20 PCA yearly PCA review.  |             | ÷  |      |   |
| 21 The other one is on a hydro facility. They say 21 But my understanding of them saying that is  |             |  |      |   |
| 22 they're different, and that's why they're different, but 22 that saying, well, no, you know, we want prudency review   |             |  |      |   |
| 23 if that's the reason, logically, the value for the hydro 23 for methodology change for forecast in our annual in   |             |  |      |   |
| 24 contract in terms of capacity should be greater because 24 our proposed annual power forecast review.  |             |  |      |   |
| 25 it's more flexible. 25 And I just I find that problematic just from  |             |  |      |   |
|   |             |  |      | · · ·   |

5 (Pages 302 to 305)

#### WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy

| WUTC     | v. Puget Sound Energy / In the Matter of: Puget Sound Energy | Dock     | et Nos. UE-240004, UG-240005, and UE-230810 (Consolidated) - Vol. |
|----------|--|----------|---|
|          | Page 306   |          | Page 308  |
| 1        | a from a process point of view.                              | 1        | You know, if you have a new contract in the PCORE                 |
| 2        | COMMISSIONER DOUMIT: Okay. Great. Thank                      | 2        | that that excuse me in the power forecast, you                    |
| 3        | you. Nothing further from me.                                | 3        | know, it's going to affect your what's going on with              |
| 4        | Any follow-ups?  | 4        | the general acquisition of power into the PCORE or the            |
| 5        | EXAMINATION  | 5        | GRC.  |
| 6        | BY COMMISSIONER RENDAHL:                                     | 6        | Sorry that was a bit long.  |
| 7        | Q. So why is it problematic to you? Can you                  | 7        | COMMISSIONER RENDAHL: No. That was very                           |
| 8        | explain what you just said? What in terms of when            | 8        | helpful. Appreciate it.   |
| 9        | that prudence review of the process happens?                 | 9        | THE WITNESS: Thank you.   |
| 10       | And I just want to clarify, I understood you to              | 10       | EXAMINATION   |
| 11       | say they could change the forecast in the GRC or in the      | 11       | BY CHAIR DANNER:  |
| 12       | power cost adjustment mechanism but not in the PCORE and     | 12       | Q. Can I I want to ask you a question about the                   |
| 13       | then you said the GRC.                                       | 13       | Sinclair PPA. PSE's witness Phil Haines says that                 |
| 14       | So I just want to clarify what you meant about               | 14       | public counsel's criticisms of that PPA contain no                |
| 15       | when it should happen and when it shouldn't and why you      | 15       | actionable alternatives for determining capacity value.           |
| 16       | think it should be in one or the other.                      | 16       | Do you have alternative methodologies that                        |
| 17       | A. Thank you. I thank you. So my concern in                  | 17       | would be used to calculate the capacity value?                    |
| 18       | all of this is parties be given an ample opportunity to      | 18       | A. Sure. The alternative is their own bid on the                  |
| 19       | review, and I think multiplying proceedings, as they         | 19       | hydro contract. I mean, that's that's the thing. I                |
| 20       | seem to be doing, makes it more difficult for public         | 20       | mean, the Sinclair is almost twice the bid on the hydro           |
| 21       | counsel, I believe for other intervenors, to to have         | 21       | contract, but they have no they have no reason why                |
| 22       | an adequate chance for review.                               | 22       | it's twice.   |
| 23       | And so I guess in this proceeding we are                     | 23       | So so if their judgment was good on the                           |
| 24       | reviewing their power their their their power                | 24       | hydro contract, why did they not use that same judgment           |
| 25       | cost and their methodology.                                  | 25       | for Sinclair? They have no reason.                                |
|          |  |          |   |
|          | Page 307   |          | Page 309  |
| 1        | If what PSE wants to happen happens, then my                 | 1        | CHAIR DANNER: All right. Thank you.                               |
| 2        | understanding is that power forecasts won't happen in        | 2        | JUDGE HUGHES: Thank you. You are excused.                         |
| 3        | the GRC, so I misspoke. I apologize, but they'll simply      | 3        | THE WITNESS: Thank you.   |
| 4        | happen in power cost reviews.                                | 4        | JUDGE HUGHES: Moving on to Michael Gorman.                        |
| 5        | The reason why I think that is problematic is,               | 5        | MS. JOHANSON-KUBIN: I don't see Mr. Gorman                        |
| 6        | it just simply makes it more difficult with issues split     | 6        | on this call. I have an email out to him. I will try              |
| 7        | up across multiple rate cases for intervenors to really      | 7        | and get in touch with him again.                                  |
| 8        | have a good chance to to review.                             | 8        | JUDGE HUGHES: Okay. Thank you. Let's keep                         |
| 9        | Again, preferable would be if you're going to                | 9        | things moving then. We'll wait to hear back from                  |
| 10       | have if you're going to have an annual power cost            | 10       | Mr. Gorman.   |
| 11       | update, which I don't object to, but if you're going to      | 11       | Is Greg Meyer available?  |
| 12       | have that, then you have a GRC. It helps defer that in       | 12       | MS. JOHANSON-KUBIN: I will also attempt to                        |
| 13       | with the GRC because it consolidates related issues into     | 13       | get ahold of him. I'm very sorry.                                 |
| 14       | one docket.  | 14       | JUDGE HUGHES: Okay. I will move to AWEC's                         |
| 15       | Certainly, if you're going to have a PCORE that              | 15       | witnesses. Is Lance Kaufman available?                            |
| 16       | year, let's combine the annual power cost review into        | 16       | MS. MOSER: I believe he's on the line, Your                       |
| 17       | the PCORE. I don't think that Puget Sound loses              | 17       | Honor.  |
| 18       | anything from that.  | 18       | MR. KAUFMAN: Hello. This is Lance.                                |
| 19       | There may be efficiencies for them. I don't                  | 19       | JUDGE HUGHES: Welcome. Please raise your                          |
| 20       | know, but I certainly think, for intervenors,                | 20       | right hand.   |
| 21       | particularly for those representing low-income               | 21       | LANCE KAUFMAN, having been first duly sworn                       |
| 22       | disadvantaged communities, it's much easier it's much        | 22       | testified as follows:   |
| 23       | easier for them to participate if if the number of           | 23       | JUDGE HUGHES: Very good. Please prepare                           |
| 24<br>25 | dockets they have to deal with are consolidated.             | 24<br>25 | the witness.  |
| 40       | Plus, the issues the issues are related.                     | ∠⊃       | MS. MOSER: Thank you.   |
|          |  | 1        |   |

6 (Pages 306 to 309)

|  | Page 310  |  | Page 312  |
|--|---|--|---|
| 1  | DIRECT EXAMINATION  | 1  | A. Yes.   |
| 2  | BY MS. MOSER:   | 2  | Q. I have a few questions about how you assigned  |
| 3  | Q. Good morning, Mr. Kaufman.   | 3  | the main, so I want to walk through how that calculation  |
| 4  | Can you please state and spell your name for  | 4  | was done using this work paper and how you signed the   |
| 5  | the record?   | 5  | mains to rate Schedules 87 and 87T.   |
| б  | A. Lance Kaufman, L-a-n-c-e, K-a-u-f-m-a-n.   | 6  | Would you please look at Column E of cross  |
| 7  | Q. And how are you employed?  | 7  | Exhibit LDK-10X? Does Column E show your estimation of  |
| 8  | A. I am employed by Western Economics as a  | 8  | the mileage of various size mains that serve Schedule 87  |
| 9  | consultant for AWEC.  | 9  | and 87T?  |
| 10   | MS. MOSER: Thank you. Your prefiled   | 10   | A. Yes.   |
| 11   | testimony and exhibits have previously been admitted to   | 11   | Q. And those mains are 4-inch, 6-inch, 8-inch,  |
| 12   | the record, so I believe this witness is available for  | 12   | 12-inch, 16-inch, and 20-inch steel pipe; correct?  |
| 13   | cross.  | 13   | A. Yes.   |
| 14   | JUDGE HUGHES: Thank you. Staff may  | 14   | Q. Did you derive these estimates from Puget Sound  |
| 15   | proceed.  | 15   | Energy's response to AWEC's Data Request No. 63?  |
| 16   | MS. GAFKEN: Thank you.  | 16   | A. I did for the 4-inch, 6-inch, and 8-inch mains.  |
| 17   | CROSS-EXAMINATION   | 17   | And for the 12-inch, 16-inch, and 20-inch mains, rather   |
| 18   | BY MS. GAFKEN:  | 18   | than direct assigning mains, I allocated the mains.   |
| 19   | Q. Good morning, Mr. Kaufman or Dr. Kaufman.  | 19   | Q. Puget Sound Energy's response to AWEC's Data   |
| 20   | A. Good morning.  | 20   | Request No. 63 is included in your Exhibit LDK-3C;  |
| 21   | Q. Dr. Kaufman, is it correct that there are 14   | 21   | correct?  |
| 22   | customers taking service under rate Schedules 87 and  | 22   | A. Yes.   |
| 23   | 87T?  | 23   | Q. In response to AWEC's Data Request No. 63,   |
| 24   | A. I believe so. There's due to transparency,   | 24   | Puget Sound Energy provided schematics of mains serving   |
| 25   | it's not clear to me that the distinction between   | 25   | individual customers; correct?  |
|  | Page 311  |  | Page 313  |
|  |   |  |   |
| 1  | customers and service points, but there's at least 14   | 1  | A. Yes.   |
| 1<br>2   | customers and service points, but there's at least 14 service points.   | 1  | A. Yes.<br><b>Q. Okay. Let's refer back to your work paper</b> ,  |
|  | -   |  |   |
| 2  | service points.   | 2  | Q. Okay. Let's refer back to your work paper,   |
| 2<br>3   | service points.<br>Q. I would like to refer to one of your work   | 2<br>3   | Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19.   |
| 2<br>3<br>4  | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to  | 2<br>3<br>4  | Q. Okay. Let's refer back to your work paper,<br>which is cross Exhibit LDK-10X, and go to Row 19.<br>That row shows 4-inch steel pipe; correct?  |
| 2<br>3<br>4<br>5   | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.  | 2<br>3<br>4<br>5   | Q. Okay. Let's refer back to your work paper,<br>which is cross Exhibit LDK-10X, and go to Row 19.<br>That row shows 4-inch steel pipe; correct?<br>A. Yes.   |
| 2<br>3<br>4<br>5<br>6  | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.<br>Could you please turn to that exhibit?  | 2<br>3<br>4<br>5<br>6  | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19.</li> <li>That row shows 4-inch steel pipe; correct?</li> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7   | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.<br>Could you please turn to that exhibit?<br>A. The exhibits that I have, have a have a  | 2<br>3<br>4<br>5<br>6<br>7   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct?</li> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.<br>Could you please turn to that exhibit?<br>A. The exhibits that I have, have a have a<br>just LDX blank CX on them. Is that<br>Q. Okay. I can I think I can refer you to the<br>right one. So the commission has designated the exhibit  | 2<br>3<br>4<br>5<br>6<br>7<br>8  | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct?</li> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.<br>Could you please turn to that exhibit?<br>A. The exhibits that I have, have a have a<br>just LDX blank CX on them. Is that<br>Q. Okay. I can I think I can refer you to the<br>right one. So the commission has designated the exhibit<br>number as 10X, but it would be the first cross exhibit,   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct?</li> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.<br>Could you please turn to that exhibit?<br>A. The exhibits that I have, have a have a<br>just LDX blank CX on them. Is that<br>Q. Okay. I can I think I can refer you to the<br>right one. So the commission has designated the exhibit  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by</li> </ul> </li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | service points.<br>Q. I would like to refer to one of your work<br>papers, and we designated the work paper that I want to<br>refer to you as cross Exhibit LDK-10X.<br>Could you please turn to that exhibit?<br>A. The exhibits that I have, have a have a<br>just LDX blank CX on them. Is that<br>Q. Okay. I can I think I can refer you to the<br>right one. So the commission has designated the exhibit<br>number as 10X, but it would be the first cross exhibit,<br>one of two. So in the file name, it should have a<br>parentheses 1.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that 4.4 miles converts to; correct?</li> <li>A. Yes.</li> </ul> </li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.</li> <li>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by</li> </ul> </li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that<br/>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> </ul> </li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has<br/>the docket number and then a file name</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of</li> </ul> </li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has<br/>the docket number and then a file name<br/>A. Okay.</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet</li> </ul> </li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has<br/>the docket number and then a file name</li> <li>A. Okay.</li> <li>Q indicating that it's the</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet <ul> <li>A. That that works out to the numbers, so</li> </ul> </li> </ul></li></ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has<br/>the docket number and then a file name</li> <li>A. Okay.</li> <li>Q indicating that it's the<br/>A. I think I'm yeah. Okay. I have it's a</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet</li> <li>A. That that works out to the numbers, so that's very likely how that's calculated.</li> </ul> </li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has<br/>the docket number and then a file name<br/>A. Okay.</li> <li>Q indicating that it's the<br/>A. I think I'm yeah. Okay. I have it's a<br/>single-page spreadsheet of gas names.</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet</li> <li>A. That that works out to the numbers, so that's very likely how that's calculated.</li> <li>Q. Okay. In Column G, we see a factor of</li> </ul> </li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work<br/>papers, and we designated the work paper that I want to<br/>refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a<br/>just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the<br/>right one. So the commission has designated the exhibit<br/>number as 10X, but it would be the first cross exhibit,<br/>one of two. So in the file name, it should have a<br/>parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has<br/>the docket number and then a file name<br/>A. Okay.</li> <li>Q indicating that it's the<br/>A. I think I'm yeah. Okay. I have it's a<br/>single-page spreadsheet of gas names.</li> <li>Q. Yes. That's the one that I would like you to</li> </ul>            | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet <ul> <li>A. That that works out to the numbers, so that's very likely how that's calculated.</li> <li>Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as</li> </ul> </li> </ul></li></ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X.</li> <li>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has the docket number and then a file name</li> <li>A. Okay.</li> <li>Q indicating that it's the</li> <li>A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names.</li> <li>Q. Yes. That's the one that I would like you to look at.</li> </ul>                        | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet <ul> <li>A. That that works out to the numbers, so that's very likely how that's calculated.</li> <li>Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as the amount of feet assigned to Schedule 87 and 87T</li> </ul> </li> </ul></li></ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X.<br/>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has the docket number and then a file name</li> <li>A. Okay.</li> <li>Q indicating that it's the</li> <li>A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names.</li> <li>Q. Yes. That's the one that I would like you to look at.</li> <li>A. Okay. I'm here.</li> </ul> | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet</li> <li>A. That that works out to the numbers, so that's very likely how that's calculated.</li> <li>Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as the amount of feet assigned to Schedule 87 and 87T divided by the total PSE system-wide feet of 4-inch</li> </ul></li></ul> |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>service points.</li> <li>Q. I would like to refer to one of your work papers, and we designated the work paper that I want to refer to you as cross Exhibit LDK-10X.</li> <li>Could you please turn to that exhibit?</li> <li>A. The exhibits that I have, have a have a just LDX blank CX on them. Is that</li> <li>Q. Okay. I can I think I can refer you to the right one. So the commission has designated the exhibit number as 10X, but it would be the first cross exhibit, one of two. So in the file name, it should have a parentheses 1.</li> <li>A. Is it request C3?</li> <li>Q. No. It's the other one. It's the one that has the docket number and then a file name</li> <li>A. Okay.</li> <li>Q indicating that it's the</li> <li>A. I think I'm yeah. Okay. I have it's a single-page spreadsheet of gas names.</li> <li>Q. Yes. That's the one that I would like you to look at.</li> </ul>                        | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>Q. Okay. Let's refer back to your work paper, which is cross Exhibit LDK-10X, and go to Row 19. That row shows 4-inch steel pipe; correct? <ul> <li>A. Yes.</li> <li>Q. Schedule 87 and 87T utilize 4.4 miles of 4-inch steel pipe or steel mains; correct?</li> <li>A. Approximately, yes.</li> <li>Q. And Column F shows the number of feet that</li> </ul> </li> <li>4.4 miles converts to; correct? <ul> <li>A. Yes.</li> <li>Q. Did you calculate the number of feet by multiplying 4.4 by 5,280?</li> <li>A. I believe so. I'd have to look at the formula and confirm that.</li> <li>Q. But assuming that you used the number of feet <ul> <li>A. That that works out to the numbers, so that's very likely how that's calculated.</li> <li>Q. Okay. In Column G, we see a factor of 0.83 percent in Row 19. Is this factor calculated as the amount of feet assigned to Schedule 87 and 87T</li> </ul> </li> </ul></li></ul>   |

7 (Pages 310 to 313)

| 1  | Page 314   |  | Page 316  |
|--|--|--|---|
| 1  | A. Yes.  | 1  | No. 63.   |
| 2  | Q. Okay. Staying with Row 19 and the 4-inch pipe   | 2  | A. I'm there.   |
| 3  | example, Column H reflects a cost of two million, four   | 3  | Q. Okay. Are you aware that Puget Sound Energy  |
| 4  | thousand fifty I'm sorry four hundred fifty-three  | 4  | revised the response to AWEC's Data Request No. 63?   |
| 5  | thousand one hundred and twelve dollars; correct?  | 5  | A. Yes.   |
| 6  | A. Yes.  | 6  | Q. And cross Exhibit LDK-11CX contains both Puget   |
| 7  | Q. The amount in Column H was calculated by  |  | -   |
|  |  |  | Sound Energy's original schematics provided in response   |
| 8  | multiplying the factor in Column G by the cost shown in  | 8  | to the data request and the revised schematics.   |
| 9  | Column C; correct?   | 9  | Do you see that?  |
| 10   | A. Yes.  | 10   | A. Yes.   |
| 11   | Q. To get the total amount of cost across all of   | 11   | Q. My questions are not confidential, and I'm not   |
| 12   | the sizes of main to be allocated to Schedules 87 and  | 12   | anticipating that I will elicit confidential responses,   |
| 13   | 87T, you summed the costs in Column H, Lines 19 through  | 13   | but, Dr. Kaufman, if you feel that a confidential   |
| 14   | 24; is that correct?   | 14   | response is necessary, please let me know and we'll ask   |
| 15   | A. Yes.  | 15   | to go into confidential session, but I don't think  |
| 16   | Q. Earlier you said that   | 16   | that's going to be necessary, but you let me know as we   |
| 17   | A. Can I can I clarify something you said  | 17   | proceed.  |
| 18   | earlier?   | 18   | There's a couple of sets of pages that I want   |
| 19   | Regarding the calculations in these columns,   | 19   | to turn your attention to. The first is 7 and 8, and  |
| 20   | the the answers that I've given you are applicable to  | 20   | then the second one is 34 and 35, so if you could pull  |
| 21   | Rows 19 through 21, and Rows 22 to 24 have slightly  | 21   | up those two sets of or look at those two sets of   |
| 22   | different formulas because they're the calculations  | 22   | pages.  |
| 23   | based on allocation factor rather than measurement of  | 23   | A. Give me a minute. I've got this on a platform  |
| 24   | number of feet.  | 24   | that I'm not familiar with.   |
| 25   | Q. I think you're hitting on what I started to ask   | 25   | Q. And the page numbers I'm referring to are the  |
| 20   | a. Think you're hitting on what i started to ask   | 25   | a. And the page numbers in releasing to are the   |
|  | Page 315   |  | Page 317  |
| 1  | because, in your earlier answer, you stated that you   | 1  | exhibit page numbers.   |
| 2  | used the schematics for what I'm going call the smaller  | 2  | A. Which pages did you want me to look at?  |
| 3  | lines, 4-, 6-, and 8-inch, and that you did something  | 3  | Q. Sure. 7 and 8, and then 34 and 35. These   |
| 4  | different for 12-, 16-, and 20-inch pipe.  | 4  | pages should show Attachment B to Puget Sound Energy's  |
| 5  | Could you explain what the difference is?  | 5  | response to Data Request 63.  |
| 6  | A. For the 4-, 6-, and 8-inch pipe, I approximated   | 6  | COMMISSIONER RENDAHL: Just to clarify, was  |
| 7  | the number of miles of pipe between the customer and the   | 7  | that letter B?  |
| 8  | nearest regulatory station or gate station, using  | 8  | MS. CARSON: Yes. B as in boy.   |
| 9  |  | -  |   |
|  | using the scale provided in the customer map.  | 9  | COMMISSIONER RENDAHL: Thank you.  |
| 10   | And for 12, 16, and 20, I allocated pipe using   | 10   | A. Okay. I'm there.   |
| 1 7  | the same allocation factors that we use for all other  | 11   | Q. (By Ms. Gafken) Okay. Page 8 shows the   |
| 11   | customers.   | 12   | original schematic, and Page 35 shows the revised   |
| 12   |  |  |   |
| 12<br>13   | Q. What do you mean by the allocation factor used  | 13   | schematic; is that correct?   |
| 12<br>13<br>14   | Q. What do you mean by the allocation factor used for all of the customers?  | 14   | A. Yes.   |
| 12<br>13   | Q. What do you mean by the allocation factor used  | 14<br>15   | <ul><li>A. Yes.</li><li>Q. And those two pages depict an individual</li></ul>   |
| 12<br>13<br>14   | Q. What do you mean by the allocation factor used for all of the customers?  | 14   | A. Yes.   |
| 12<br>13<br>14<br>15   | <ul><li>Q. What do you mean by the allocation factor used</li><li>for all of the customers?</li><li>A. The allocation factor, peak and average</li></ul>   | 14<br>15   | <ul><li>A. Yes.</li><li>Q. And those two pages depict an individual</li></ul>   |
| 12<br>13<br>14<br>15<br>16   | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> </ul>   | 14<br>15<br>16   | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T;</li> </ul>   |
| 12<br>13<br>14<br>15<br>16<br>17                                     | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of</li> </ul>  | 14<br>15<br>16<br>17                                     | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> </ul>  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18                               | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size</li> </ul>  | 14<br>15<br>16<br>17<br>18                               | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> <li>A. Yes.</li> <li>Q. Please refer to Page 8 of cross Exhibit LD –</li> </ul>  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and</li> </ul>   | 14<br>15<br>16<br>17<br>18<br>19                         | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> <li>A. Yes.</li> <li>Q. Please refer to Page 8 of cross Exhibit LD – LDK-11CX. This is the original schematic that Puget</li> </ul>  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct?</li> <li>A. Yes.</li> </ul>   | 14<br>15<br>16<br>17<br>18<br>19<br>20                   | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> <li>A. Yes.</li> <li>Q. Please refer to Page 8 of cross Exhibit LD</li> <li>LDK-11CX. This is the original schematic that Puget Sound Energy provided.</li> </ul>  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct?</li> <li>A. Yes.</li> <li>Q. Okay. Could you turn to the other cross</li> </ul>   | 14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> <li>A. Yes.</li> <li>Q. Please refer to Page 8 of cross Exhibit LD –</li> <li>LDK-11CX. This is the original schematic that Puget Sound Energy provided.</li> <li>In estimating the length of pipe for this</li> </ul>                                   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct?</li> <li>A. Yes.</li> <li>Q. Okay. Could you turn to the other cross exhibit which has been designated cross</li> </ul> | 14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> <li>A. Yes.</li> <li>Q. Please refer to Page 8 of cross Exhibit LD LDK-11CX. This is the original schematic that Puget Sound Energy provided. In estimating the length of pipe for this customer, did you estimate the length of pipe from the</li></ul> |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>Q. What do you mean by the allocation factor used for all of the customers?</li> <li>A. The allocation factor, peak and average allocation factor.</li> <li>Q. Okay. So using those two different ways of calculating the amount allocated to Schedules 87 and 87T, you summed up the totals that you got for each size pipe for the total allocation; is that correct?</li> <li>A. Yes.</li> <li>Q. Okay. Could you turn to the other cross</li> </ul>   | 14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>A. Yes.</li> <li>Q. And those two pages depict an individual customer receiving service under Schedule 87 or 87T; correct?</li> <li>A. Yes.</li> <li>Q. Please refer to Page 8 of cross Exhibit LD LDK-11CX. This is the original schematic that Puget Sound Energy provided. In estimating the length of pipe for this</li> </ul>   |

8 (Pages 314 to 317)

|   | Page 318   |  | Page 320   |
|---|--|--|--|
| 1   | Q. District regulators are located within Puget  | 1  | A. Yes.  |
| 2   | Sound Energy's system with no connection to Northwest  | 2  | Q. In this definition, is it your understanding  |
| 3   | Pipeline; is that correct?   | 3  | that a town border station is where the gas enters the   |
| 4   | A. No direct connection. Presumably there's a  | 4  | PSE station or system?   |
| 5   | connection upstream from the regulator.  | 5  | A. Yes.  |
| 6   | Q. But this means that the schematic on Page 8 of  | 6  | Q. There are several stretches of pipe of varying  |
| 7   | cross Exhibit LDX-11CX does not show the entire flow of  | 7  | sizes between the town border station on the right side  |
| 8   | gas on the Puget Sound Energy's system to serve this   | 8  | of the page and the customer location on the left side   |
| 9   | individual customer; correct?  | 9  | of the page; correct?  |
| 10  | A. That's my understanding. However, the   | 10   | A. Repeat the question.  |
| 11  | discovery response that I submitted requested that the   | 11   | Q. Sure. There were several stretches of pipe of   |
| 12  | station be shown.  | 12   | varying sizes between the town border station on the   |
| 13  | Q. I'm sorry. I'm not sure I understood your   | 13   | right side of the page and the customer location on the  |
| 14  | response.  | 14   | left side of the page; correct?  |
| 15  | A. The original the original version of this   | 15   | A. Yes.  |
| 16  | map was submitted by PGE sorry by Puget Sound due  | 16   | Q. There are multiple routes that the gas could  |
| 17  | to a misunderstanding on Puget Sound's side of what the  | 17   | take to get from the town border station to the  |
| 18  | data request was requesting.   | 18   | customer's location; isn't that correct?   |
| 19  | The data request was requesting border stations  | 19   | A. If we assume that every visual intersection in  |
| 20  | or limit stations, and not the district regulators.  | 20   | the map has a physical a physical interconnection  |
| 21  | Q. Okay. But it's fair to say that gas used by   | 21   | that gas can flow through, then that's correct.  |
| 22  | this customer enters PSE's system at a further point   | 22   | Q. And there are several customers served along  |
| 23  | upstream from the district regulator; correct?   | 23   | the paths between the town border station and the  |
| 24  | A. Yes.  | 24   | customer's location; correct?  |
| 25  | Q. Okay. Please turn to Page 35 of cross   | 25   | A. I'm not aware of any specific customers, but  |
|   |  |  |  |
|   | Page 319   |  | Page 321   |
| 1   | Exhibit LDK-11CX.  | 1 1  |  |
|   |  | 1  | that's a reasonable assumption.  |
| 2   | There we see a wider view of PSE system in this  |  | Q. Indeed there may be hundreds if not thousands   |
| 2<br>3  |  |  | Q. Indeed there may be hundreds if not thousands<br>of other customers utilizing the same pipes that   |
|   | There we see a wider view of PSE system in this schematic; correct?<br>A. Yes.   | 2  | Q. Indeed there may be hundreds if not thousands<br>of other customers utilizing the same pipes that<br>Customer 2 relies upon to receive gas within the PSE   |
| 3   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally  | 2<br>3   | Q. Indeed there may be hundreds if not thousands<br>of other customers utilizing the same pipes that<br>Customer 2 relies upon to receive gas within the PSE<br>system; correct?   |
| 3<br>4  | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?   | 2<br>3<br>4<br>5<br>6  | Q. Indeed there may be hundreds if not thousands<br>of other customers utilizing the same pipes that<br>Customer 2 relies upon to receive gas within the PSE<br>system; correct?<br>A. Yes.  |
| 3<br>4<br>5<br>6<br>7   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.   | 2<br>3<br>4<br>5<br>6<br>7   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section</li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8  | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on  | 2<br>3<br>4<br>5<br>6  | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that</li> <li>Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only</li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow</li> </ul>  |
| 3<br>4<br>5<br>7<br>8<br>9<br>10  | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map</li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my</li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? <ul> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> </ul> </li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? <ul> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2,</li> </ul> </li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to</li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch</li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?<br>A. Yes.   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would</li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?<br>A. Yes.<br>Q. PSE defines a town border station as the  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to</li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?<br>A. Yes.<br>Q. PSE defines a town border station as the<br>transfer of custody point from Northwest Pipeline   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? <ul> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station.</li> </ul> </li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?<br>A. Yes.<br>Q. PSE defines a town border station as the<br>transfer of custody point from Northwest Pipeline<br>lateral, but different from a gate station in the sense  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct?</li> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station.</li> </ul>  |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?<br>A. Yes.<br>Q. PSE defines a town border station as the<br>transfer of custody point from Northwest Pipeline<br>lateral, but different from a gate station in the sense<br>that metering takes place upstream of this type of  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? <ul> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station.</li> <li>And, furthermore, by allocating 100 percent of that pipe to the customer, that's actually</li> </ul> </li> </ul>   |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | <ul> <li>There we see a wider view of PSE system in this schematic; correct?</li> <li>A. Yes.</li> <li>Q. Is this more akin to what you were originally asking for in your request?</li> <li>A. Yes. Yes.</li> <li>Q. And the portion that we were looking at on Page 8 of cross Exhibit LDK-11CX can be found on the left side of the page, about a third of the way down; correct?</li> <li>If you find the number 2 and observe the teal and green lines that connect it to the district regulator noted by R, do you see the portion of what is on Page 8 on Page 35?</li> <li>A. That's correct.</li> <li>Q. And on the right side of the page, we see a town border station denoted by TB; correct?</li> <li>A. Yes.</li> <li>Q. PSE defines a town border station as the transfer of custody point from Northwest Pipeline lateral, but different from a gate station in the sense that metering takes place upstream of this type of station.</li> </ul> | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? <ul> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station.</li> <li>And, furthermore, by allocating 100 percent of that pipe to the customer, that's actually overestimating or over-allocating costs to Customer 2</li> </ul> </li> </ul> |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | There we see a wider view of PSE system in this<br>schematic; correct?<br>A. Yes.<br>Q. Is this more akin to what you were originally<br>asking for in your request?<br>A. Yes. Yes.<br>Q. And the portion that we were looking at on<br>Page 8 of cross Exhibit LDK-11CX can be found on the<br>left side of the page, about a third of the way down;<br>correct?<br>If you find the number 2 and observe the teal<br>and green lines that connect it to the district<br>regulator noted by R, do you see the portion of what is<br>on Page 8 on Page 35?<br>A. That's correct.<br>Q. And on the right side of the page, we see a<br>town border station denoted by TB; correct?<br>A. Yes.<br>Q. PSE defines a town border station as the<br>transfer of custody point from Northwest Pipeline<br>lateral, but different from a gate station in the sense<br>that metering takes place upstream of this type of  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>Q. Indeed there may be hundreds if not thousands of other customers utilizing the same pipes that Customer 2 relies upon to receive gas within the PSE system; correct? <ul> <li>A. Yes.</li> <li>Q. However, your analysis allocates only a section of mains used by other PSE customers because you only traced and allocated a portion of the path of gas flow to Customer 2; correct?</li> <li>A. That's incorrect.</li> <li>Q. Why is that incorrect?</li> <li>A. While I only trace the portion of the map the pipe, even if I had access to the correct map, my numbers would not change materially.</li> <li>I would have traced the section from the 2, proceeding north along the 8-inch and the 4-inch pipe to the 12-inch main, and the total footage for the 12-inch and the sorry the 8-inch and the 4-inch main would not be materially different from tracing paths out to the regulator station.</li> <li>And, furthermore, by allocating 100 percent of that pipe to the customer, that's actually</li> </ul> </li> </ul>   |

|          | r dget obund Energy / in the Matter of Traget obund Energy  |          |  |
|----------|---|----------|--|
|          | Page 322  |          | Page 324   |
| 1        | customers served by the 8-inch and the 4-inch section   | 1        | pipe.  |
| 2        | that I included.  | 2        | Q. Okay. Thank you for that.                                       |
| 3        | And those customers are essentially receiving   | 3        | Could you please turn to Page 35 of cross                          |
| 4        | the benefit of that, in that they are allocated none of   | 4        | Exhibit LDK-11CX and look at the border station on the             |
| 5        | that pipe, while the Customer 2 is allocated 100 percent  | 5        | right side of the page?  |
| 6        | of the pipe.  | 6        | A. Okay.   |
| 7        | So from that perspective, my estimates could  | 7        | Q. Do you see the two short spurs the two short                    |
| 8        | actually be seen as an over-assignment of pipe to the   | 8        | gray spurs coming off the green line?                              |
| 9        | 87, 87T customers.  | 9        | A. Going south near the border station?                            |
| 10       | Q. But your estimate only goes between the  | 10       | Q. It's assuming that directionally going down on                  |
| 11       | district regulator and the customer site.   | 11       | the paper is south.  |
| 12       | It doesn't trace back to the the town border  | 12       | A. Yes.  |
| 13       | station; correct?   | 13       | Q. Yes.  |
| 14       | A. Yes. So if the point I'm making is that,   | 14       | A. I see that.   |
| 15       | even if I had traced back to the town border station, my  | 15       | Q. Okay. The customer served off of these two                      |
| 16       | estimate would not change materially.   | 16       | short spurs do not rely on PSE's system except for the             |
| 17       | So what I did, looking at the revised exhibit,  | 17       | very short length of main from the town border station;            |
| 18       | is, I followed the path starting at the little red  | 18       | correct?   |
| 19       | box 2. I followed the path northeast to the   | 19       | A. That's correct.   |
| 20       | intersection of the 4-inch pipe and the 8-inch pipe, and  | 20       | Q. Under your analysis, shouldn't these customers                  |
| 21       | then I traveled south through the regulator station.  | 21       | be assigned only the costs of the pipe running from the            |
| 22       | And the path going north is slightly longer   | 22       | town border station to the customer locations?                     |
| 23       | than the path going south by I'd say approximately a  | 23       | A. That's not what I proposed in my model. Those                   |
| 24       | half a mile. So it would be reasonable to add a half a  | 24       | customers are likely to be a much smaller volume of gas            |
| 25       | mile of 8-inch pipe to my model to account for the  | 25       | and represent a very small fraction of the customers on            |
|          | Page 323  |          | Page 325   |
| 1        | corrected map, but it would not be reasonable to add  | 1        | their schedule.  |
| 2        | more than half of a mile because, under my model, I   | 2        | It's certainly possible that, if a customer                        |
| 3        | would I would stop tracing the pipe back at the   | 3        | group wanted to create an independent schedule, say, you           |
| 4        | intersection between the 8-inch pipe and the 12-inch  | 4        | know, residential customers close to the border gate               |
| 5        | pipe directly north of the customer.  | 5        | stations, you know, they could petition for a new a                |
| 6        | And the reason for that is because the most   | 6        | new schedule that is easy to develop direct assignment             |
| 7        | likely and reasonable path for the gas to flow, looking   | 7        | for them, but that's not what I've recommended.                    |
| 8        | at this figure, is that the gas would flow along the  | 8        | MS. GAFKEN: Okay. Thank you. I have no                             |
| 9        | 12-inch main rather than the 8-inch main.   | 9        | further questions.   |
| 10       | The 8-inch main that you see that kind of   | 10       | JUDGE HUGHES: Thank you. And I will notice                         |
| 11       | splits off and and, you know, the various other   | 11       | that the map does indicate north on the bottom left                |
| 12       | routes that the gas could possibly travel are not direct  | 12       | corner if that ever comes out.                                     |
| 13       | paths and are not large diameter pipes, and, from my  | 13       | Any redirect?  |
| 14       | perspective, those pipes are more reasonably allocated  | 14       | MS. MOSER: No, Your Honor. No redirect.                            |
| 15       | to other customers.   | 15       | Thank you.   |
| 16       | So just to reiterate, even looking at this map,   | 16       | JUDGE HUGHES: Questions from the bench?                            |
| 17       | if I had calculated feet based on this map, I would add   | 17       | All right. Thank you.  |
| 18       | about a half a mile of 8-inch pipe to my analysis, which  | 18       | CHAIR DANNER: Hang on.   |
| 19       | would have a very small impact on the direct assignment   | 19       |  |
| 20       | of costs.   | 20       | BY CHAIR DANNER:   |
| 21<br>22 | And I mentioned before, it would also be an   | 21<br>22 | Q. I just with regard to those two gray lines                      |
|          | overestimate of costs because it's assigning 100 percent  | 22       | going south, are they what do we know about them?                  |
| 23       | of the pipe connecting Customer 2 to the border station   |          | Are they residential? Are there more than one customer             |
| 24       | rather than a share of the nine recognizing the fact  |          | On each of them or lifet Voll know/ do Voll have an idea           |
| 24<br>25 | rather than a share of the pipe, recognizing the fact that the other customers are also served by that same | 24<br>25 | on each of them or just you know, do you have an idea<br>from your |

|  | r. Puget Sound Energy / In the Matter of: Puget Sound Energy   |  |  |
|--|--|--|--|
|  | Page 326   |  | Page 328   |
| 1  | A. Those mains I would expect to be smaller than   | 1  | EXAMINATION  |
| 2  | 4-inch mains. Other than the fact that they're smaller   | 2  | BY COMMISSIONER DOUMIT:  |
| 3  | than 4-inch mains, it's I don't have any   | 3  | Q. Mr. Mullins, did you hear our questions to  |
| 4  | Q. You don't know?   | 4  | Dr. Earle, public counsel's witness, on power costs  |
| 5  | A what type of customer.   | 5  | A. I did.  |
| 6  | Q. Okay.   | 6  | Q just a few minutes ago? These will be real   |
| 7  | A. It's possible that they're residential. It's  | 7  | similar questions then.  |
| 8  | possible that they're a smaller commercial customer,   | 8  | So first, on rebuttal, PSE, through Witness  |
| 9  | but  | 9  | Mueller, has increased its power costs forecast by   |
| 10   | Q. It's also possible there are multiple users on  | 10   | 18.5 percent in rate year 1 and by 8.7 percent in rate   |
| 11   | that?  | 11   | year 2, claiming that most of the increase is due to new   |
| 12   | A. Yes.  | 12   | power purchase agreements signed since direct testimony  |
| 13   | CHAIR DANNER: Okay. All right. Thank you.  | 13   | was filed.   |
| 14   | JUDGE HUGHES: Okay. Thank you. You are   | 14   | Has AWEC had an opportunity or, in particular,   |
| 15   | excused.   | 15   | an adequate opportunity, to review those PPAs and other  |
| 16   | THE WITNESS: Thank you.  | 16   | increases?   |
| 17   | JUDGE HUGHES: And then do we have any word   | 17   | A. We certainly reviewed some of them. I can't   |
| 18   | from public counsel's witnesses? Just checking in.   | 18   | say that we reviewed all of them. And I think we were,   |
| 19   | MS. JOHANSON-KUBIN: Yes. Unfortunately, we   | 19   | you know, concerned with the large increase to power   |
| 20   | had a pretty serious miscommunication. They're not   | 20   | costs.   |
| 21   | available until 1:00 or 1:30 today.  | 21   | In discovery, I think PSE, you know, did kind  |
| 22   | We also would suggest that the commission could  | 22   | of let parties know that some of these contracts were  |
| 23   | alternatively issue written bench requests if the  | 23   | coming, so it wasn't, you know, necessarily a huge   |
| 24   | scheduling is too much of a problem.   | 24   | surprise, but I think, in general, we're concerned with  |
| 25   | JUDGE HUGHES: We will talk that over, but  | 25   | the hydro contracts.   |
|  | Page 327   |  |  |
|  |  |  | Page 329   |
| 1  |  | 1  |  |
| 1<br>2   | thank you for the update.  | 1  | And I would actually refer you to Witness  |
| 1<br>2<br>3  | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.   | 1<br>2<br>3  | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying  |
| 2<br>3   | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.<br>Okay. Please raise your right hand.  | 2<br>3   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.   |
| 2  | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.<br>Okay. Please raise your right hand.<br>BRADLEY G. MULLINS, having been first duly sworn  | 2  | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.   |
| 2<br>3<br>4  | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.<br>Okay. Please raise your right hand.<br>BRADLEY G. MULLINS, having been first duly sworn<br>testified as follows:   | 2<br>3<br>4  | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,  |
| 2<br>3<br>4<br>5   | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.<br>Okay. Please raise your right hand.<br>BRADLEY G. MULLINS, having been first duly sworn  | 2<br>3<br>4<br>5   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of  |
| 2<br>3<br>4<br>5<br>6<br>7   | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.<br>Okay. Please raise your right hand.<br>BRADLEY G. MULLINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.  | 2<br>3<br>4<br>5<br>6  | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,   |
| 2<br>3<br>4<br>5<br>6  | thank you for the update.<br>Okay. Moving forward then, Bradley Mullins.<br>Okay. Please raise your right hand.<br>BRADLEY G. MULLINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce  | 2<br>3<br>4<br>5<br>6<br>7   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8  | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> <li>A. Iam, yes.</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,<br>slice of hydro or, you know, other types of capacity  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> <li>A. I am, yes.</li> <li>Q. Your prefiled testimony and exhibits have been admitted into the record.</li> </ul>   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,<br>slice of hydro or, you know, other types of capacity<br>projects.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> <li>A. I am, yes.</li> <li>Q. Your prefiled testimony and exhibits have been admitted into the record.</li> <li>MS. MOSER: So this witness is available for</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,<br>slice of hydro or, you know, other types of capacity<br>projects.<br>And so to answer your question, I mean, I think  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> <li>A. I am, yes.</li> <li>Q. Your prefiled testimony and exhibits have been admitted into the record.</li> <li>MS. MOSER: So this witness is available for questions from the bench.</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,<br>slice of hydro or, you know, other types of capacity<br>projects.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> <li>A. I am, yes.</li> <li>Q. Your prefiled testimony and exhibits have been admitted into the record.</li> <li>MS. MOSER: So this witness is available for</li> </ul>  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,<br>slice of hydro or, you know, other types of capacity<br>projects.<br>And so to answer your question, I mean, I think<br>there probably could we probably could use some<br>further review of those contracts if there is an |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>thank you for the update.</li> <li>Okay. Moving forward then, Bradley Mullins.</li> <li>Okay. Please raise your right hand.</li> <li>BRADLEY G. MULLINS, having been first duly sworn testified as follows:</li> <li>JUDGE HUGHES: Very good. Please introduce the witness.</li> <li>MS. MOSER: Apologies.</li> <li>DIRECT EXAMINATION</li> <li>BY MS. MOSER:</li> <li>Q. Mr. Mullins, can you please state and spell your name for the record?</li> <li>A. It's Bradley Mullins, spelled M-u-I-I-i-n-s.</li> <li>Q. And how are you employed?</li> <li>A. I'm the principal of MW Analytics.</li> <li>Q. And are you appearing as a consultant for AWEC in this proceeding?</li> <li>A. I am, yes.</li> <li>Q. Your prefiled testimony and exhibits have been admitted into the record.</li> <li>MS. MOSER: So this witness is available for questions from the bench.</li> <li>COMMISSIONER DOUMIT: Thank you.</li> </ul> | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | And I would actually refer you to Witness<br>Kaufman's testimony about the you know, justifying<br>those contracts, in part, on CEIP compliance.<br>So there's you know, there's that issue.<br>And I think, you know, kind of for broader picture,<br>the I think we're seeing, you know, a lot a lot of<br>push towards, you know, dedicated capacity resources,<br>and I think that's being driven possibly by the WRAP.<br>Whereas, before, it would have been, you know,<br>mostly, you know, Schedule-C-type contracts that would<br>fill, you know, capacity needs.<br>And, you know, so, I mean, we could, you know,<br>debate, you know, for a long time the merits of that<br>change and the costs that that the changes in the<br>WRAP might, you know, result in, but that seems to be<br>the big what we're seeing is a move away from kind of<br>the traditional Schedule C liquidated damages contracts,<br>towards contracts that are dedicated capacity, you know,<br>slice of hydro or, you know, other types of capacity<br>projects.<br>And so to answer your question, I mean, I think<br>there probably could we probably could use some   |

11 (Pages 326 to 329)

|  | Page 330  |  | Page 332  |
|--|---|--|---|
| 1  | have, generally you just stated your essentially two  | 1  | mostly from hydro resources.  |
| 2  | concerns?   | 2  | And so the, you know, CCA compliance obviously  |
| 3  | Okay. Great. Thanks.  | 3  | plays into, you know, the the selection between, you  |
| 4  | Another question I asked to Dr. Mueller, PSE  | 4  | know, hydrocarbon you know, zero carbon resource  |
| 5  | or excuse me to Dr. Earle, PSE Witness Mueller states   | 5  | versus an unspecified Schedule-C-type contract.   |
| 6  | that the company is willing to defer prudency reviews   | 6  | And really, you know, the big difference  |
| 7  | for PPAs but not for power cost forecast methodologies.   | 7  | between the two, from a capacity perspective, is that,  |
| 8  | What does AWEC understand to be the current   | 8  | you know, Schedule C contract can be interrupted.   |
| 9  | method for prudency review of power cost calculation  | 9  | However, if it is, the counterparty has to pay  |
| 10   | methodologies?  | 10   | liquidated damages, so there's a chance that the power  |
| 11   | A. Not quite sure what they meant by that. I  | 11   | might not flow, you know, depending on your   |
| 12   | think what they're saying is and maybe this is in the   | 12   | counterparty, but the counterparty will reimburse the   |
| 13   | context of their annual updates, that they will keep the  | 13   | cost of that. And that's, you know, how it's been done  |
| 14   | same power cost forecasting methods and that they   | 14   | for, you know, longer than I've been around.  |
| 15   | won't they won't change those.  | 15   | And now we're switching into this sort of WRAP  |
| 16   | And perhaps they're saying also that, you know,   | 16   | framework, and I think it's getting and I think we're   |
| 17   | parties couldn't couldn't contest those methods in an   | 17   | starting to see the costs associated with moving towards  |
| 18   | annual power concept update.  | 18   | that. Whereas, you know, a Schedule C contract is going   |
| 19   | And, you know, I would say this is a, you know,   | 19   | to be much less expensive than you know, than a slice   |
| 20   | pretty dynamic industry, and, you know, it would make   | 20   | of hydro facility.  |
| 21   | sense to me that if there's, you know, some sort of a   | 21   | Q. And that's not just because of the liquidated  |
| 22   | method or something that's not working correctly, that  | 22   | damages issue but also because of the resource type, the  |
| 23   | parties should have the opportunity to to contest   | 23   | unspecified market power versus a specified source?   |
| 24   | those and the assumptions.  | 24   | A. Right. Yeah. And certainly carries, you know,  |
| 25   | And, you know, at least certainly in this case,   | 25   | environmental attributes, which are more you know,  |
|  | Page 331  |  | Page 333  |
| 1  | we raise the issue about the EIM congestion revenues,   | 1  | more valuable, and it has you know, it's a flexible   |
| 2  | which are a big source of revenues through the EIM,   | 2  | resource, which is also, you know, more valuable.   |
| 3  | which are excluded from their model.  | 3  | So it's it's not you know, you can't  |
| 4  | And so I think issues like that are would be  | 4  | compare them, you know, one for one certainly, but I  |
| 5  | appropriate to roles in the future undetex which I  |  |   |
| 5  | appropriate to raise in in future updates which I   | 5  | think that's just a general comment on kind of what   |
| 6  | know is a whole you know, how updates get performed   | 5<br>6   | we're seeing in the market with and it's not just   |
|  | know is a whole you know, how updates get performed is a separate issue and question.   | 1  | we're seeing in the market with and it's not just PSE, but a lot of utilities out there, you know, bidding  |
| 6  | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on  | 6<br>7<br>8  | we're seeing in the market with and it's not just<br>PSE, but a lot of utilities out there, you know, bidding<br>for this hydro capacity is, you know, driven by the WRAP   |
| 6<br>7   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?   | 6<br>7<br>8<br>9   | we're seeing in the market with and it's not just<br>PSE, but a lot of utilities out there, you know, bidding<br>for this hydro capacity is, you know, driven by the WRAP<br>and also, as you mentioned, you know, the environmental  |
| 6<br>7<br>8  | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a  | 6<br>7<br>8<br>9<br>10   | we're seeing in the market with and it's not just<br>PSE, but a lot of utilities out there, you know, bidding<br>for this hydro capacity is, you know, driven by the WRAP   |
| 6<br>7<br>8<br>9<br>10<br>11   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.  | 6<br>7<br>8<br>9<br>10<br>11   | we're seeing in the market with and it's not just<br>PSE, but a lot of utilities out there, you know, bidding<br>for this hydro capacity is, you know, driven by the WRAP<br>and also, as you mentioned, you know, the environmental<br>attributes and, you know, and flexibility-type concerns<br>as well.   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION   | 6<br>7<br>8<br>9<br>10<br>11<br>12   | we're seeing in the market with and it's not just<br>PSE, but a lot of utilities out there, you know, bidding<br>for this hydro capacity is, you know, driven by the WRAP<br>and also, as you mentioned, you know, the environmental<br>attributes and, you know, and flexibility-type concerns<br>as well.<br>Q. These WRAP contracts, do they generally not   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> </ul>  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> </ul>  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> </ul>   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,  | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> </ul>   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western  | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> </ul>   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> </ul>  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> </ul>  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that<br>you're seeing because the Schedule C contracts are more  | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> <li>interrupt the you know, the delivery of power.</li> </ul>  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that<br>you're seeing because the Schedule C contracts are more<br>unspecified power, whereas the contracts that PSE is now  | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> <li>interrupt the you know, the delivery of power.</li> <li>However, if they do, they'll have to pay liquidated</li> </ul>   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that<br>you're seeing because the Schedule C contracts are more<br>unspecified power, whereas the contracts that PSE is now<br>pursuing are more specified power contracts?  | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> <li>interrupt the you know, the delivery of power.</li> <li>However, if they do, they'll have to pay liquidated</li> <li>damages, which usually is based on, like, you know, the</li> </ul>  |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that<br>you're seeing because the Schedule C contracts are more<br>unspecified power, whereas the contracts that PSE is now<br>pursuing are more specified power contracts?<br>A. Yeah. I think that's I mean, it's from a   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> <li>interrupt the you know, the delivery of power.</li> <li>However, if they do, they'll have to pay liquidated</li> <li>damages, which usually is based on, like, you know, the</li> <li>hourly Powerdex Index or some other, you know, hourly</li> </ul>   |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that<br>you're seeing because the Schedule C contracts are more<br>unspecified power, whereas the contracts that PSE is now<br>pursuing are more specified power contracts?<br>A. Yeah. I think that's I mean, it's from a<br>dedicated resource, but I think that's another | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> <li>interrupt the you know, the delivery of power.</li> <li>However, if they do, they'll have to pay liquidated</li> <li>damages, which usually is based on, like, you know, the</li> <li>hourly Powerdex Index or some other, you know, hourly</li> <li>index to determine what that what that is.</li> </ul> |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | know is a whole you know, how updates get performed<br>is a separate issue and question.<br>COMMISSIONER DOUMIT: Follow-ups based on<br>the last line of questioning?<br>COMMISSIONER RENDAHL: So I have a<br>follow-up.<br>EXAMINATION<br>BY COMMISSIONER RENDAHL:<br>Q. Good evening to you, Mr. Mullins.<br>So in your response to the first question from<br>Commissioner Doumit, you were talking about the WRAP,<br>the Western Resource Adequacy Program, and the Western<br>Power Pool Schedule C contract.<br>Is the difference between those contracts that<br>you're seeing because the Schedule C contracts are more<br>unspecified power, whereas the contracts that PSE is now<br>pursuing are more specified power contracts?<br>A. Yeah. I think that's I mean, it's from a   | 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>we're seeing in the market with and it's not just</li> <li>PSE, but a lot of utilities out there, you know, bidding</li> <li>for this hydro capacity is, you know, driven by the WRAP</li> <li>and also, as you mentioned, you know, the environmental</li> <li>attributes and, you know, and flexibility-type concerns</li> <li>as well.</li> <li>Q. These WRAP contracts, do they generally not</li> <li>have the same liquidated damages provisions, so there's</li> <li>less protection if there is a lack of availability under</li> <li>the contract?</li> <li>A. For the yeah. The Schedule C contracts,</li> <li>which I think you're referring to, you know, they're</li> <li>structured around liquidated damages.</li> <li>So the counterparty they can decide to</li> <li>interrupt the you know, the delivery of power.</li> <li>However, if they do, they'll have to pay liquidated</li> <li>damages, which usually is based on, like, you know, the</li> <li>hourly Powerdex Index or some other, you know, hourly</li> </ul>   |

|  | Page 334   |  | Page 336   |
|--|--|--|--|
| 1  | perception that that's, you know, generally less   | 1  | EXAMINATION  |
| 2  | reliable and, you know, a dedicated resource from hydro  | 2  | BY CHAIR DANNER:   |
| 3  | facility, which is, you know, theoretically, going to,   | 3  | Q. Good morning, Mr. Cebulko.  |
| 4  | you know, be there as long as there's, you know,   | 4  | A. Good morning.   |
| 5  | capacity.  | 5  | Q. You know, in your response testimony, you   |
| 6  | So it's it's that seems to be the shift  | 6  | proposed the commission place the burden of proof on   |
| 7  | at least, you know, with the WRAP is moving away from  | 7  | Puget, that is, assess the non-pipeline alternatives,  |
| 8  | that liquidated damages construct.   | 8  | before recovering costs of pipeline investments, you   |
| 9  | And, you know, I have sort of mixed feelings   | 9  | know, aside from the safety and emergency costs.   |
| 10   | about it, but, you know, I think, you know, it is what   | 10   | On rebuttal, the company's witness Landers   |
| 11   | it is, and I think that's that's really what's   | 11   | claims that your proposal is duplicative with House  |
| 12   | driving the at least, you know, from my perspective,   | 12   | Bill 1589.   |
| 13   | what's driving the demand in these in hydro contracts  | 13   | What components of your proposal would be  |
| 14   | and capacity contracts is, you know, the movement  | 14   | additive to or duplicative of the requirements of House  |
| 15   | towards the WRAP.  | 15   | Bill 1589?   |
| 16   | Q. Thank you.  | 16   | A. So there's a couple pieces here. So House   |
| 17   | And then just one last clarifying question.  | 17   | Bill 1589 requires, I think, rate system planning  |
| 18   | You mentioned Powerdex. Is that power with d-e-x at the  | 18   | amongst some other components of the bill, and that plan   |
| 19   | end, for the court reporter?   | 19   | is scheduled on a cycle to kind of to replace  |
| 20   | A. That is, yes. Powerdex. And that's the  | 20   | integrative resource plan. It's really about a planning  |
| 21   | that is an hourly index for, you know, bilateral energy  | 21   | standard and assessing cost and risks of various   |
| 22   | transactions.  | 22   | futures uncertain futures.   |
| 23   | COMMISSIONER RENDAHL: Great. Thank you. I  | 23   | It's primarily based in planning. What I'm   |
| 24   | appreciate the conversation this morning. That's all   | 24   | asking this commission to do is to reorient the  |
| 25   | that I have.   | 25   | ratemaking process as well, right, to to to very   |
|  |  |  |  |
|  | Daga 225   |  |  |
|  | Page 335   |  | Page 337   |
| 1  |  | 1  | Page 337 clearly state to Puget that, here are your requirements   |
| 1<br>2   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?  | 1<br>2   |  |
|  | THE WITNESS: Thank you.  |  | clearly state to Puget that, here are your requirements  |
| 2  | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?  | 2  | clearly state to Puget that, here are your requirements that you need to be changing how you operate as a  |
| 2<br>3   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.   | 2<br>3   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning   |
| 2<br>3<br>4  | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are   | 2<br>3<br>4  | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on  |
| 2<br>3<br>4<br>5   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.   | 2<br>3<br>4<br>5   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're  |
| 2<br>3<br>4<br>5<br>6  | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.   | 2<br>3<br>4<br>5<br>6  | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that  |
| 2<br>3<br>4<br>5<br>6<br>7   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.   | 2<br>3<br>4<br>5<br>6<br>7   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.   | 2<br>3<br>4<br>5<br>6<br>7<br>8  | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every<br>analysis will show that non-pipeline alternative is   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                     | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every<br>analysis will show that non-pipeline alternative is<br>feasible or cost-effective rather than being able to   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?<br>A. Yes. My name is Bradley Cebulko, B-r-a-d-l-e-y  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every<br>analysis will show that non-pipeline alternative is<br>feasible or cost-effective rather than being able to<br>change their their their planning and operations   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?<br>A. Yes. My name is Bradley Cebulko, B-r-a-d-l-e-y<br>C-e-b-u-l-k-o.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                         | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every<br>analysis will show that non-pipeline alternative is<br>feasible or cost-effective rather than being able to<br>change their their their planning and operations<br>practices.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?<br>A. Yes. My name is Bradley Cebulko, B-r-a-d-l-e-y<br>C-e-b-u-l-k-o.<br>MR. HASSELMAN: And Mr. Cebulko's testimony  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | clearly state to Puget that, here are your requirements that you need to be changing how you operate as a company in every facet of the company, from the planning to the engineers to the day-to-day staff working on these problems, that you have to change how you're thinking about the problems and the investments that you're making.<br>And so this commission has long held that companies have to make a business case and demonstrate alternatives. My observation is that pipeline investments have not been held to close scrutiny to this point.<br>And so what I'm asking the commission to do is say, every investment needs to have this alternative analysis, right, and that is not to say that every analysis will show that non-pipeline alternative is feasible or cost-effective rather than being able to change their their their planning and operations practices.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?<br>A. Yes. My name is Bradley Cebulko, B-r-a-d-l-e-y<br>C-e-b-u-l-k-o.<br>MR. HASSELMAN: And Mr. Cebulko's testimony<br>and exhibits have been admitted into the record, and he   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every<br>analysis will show that non-pipeline alternative is<br>feasible or cost-effective rather than being able to<br>change their their their planning and operations<br>practices.<br><b>Q. So basically you're saying that they have to be</b><br><b>considered, but you're also saying that they have a</b>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?<br>A. Yes. My name is Bradley Cebulko, B-r-a-d-l-e-y<br>C-e-b-u-l-k-o.<br>MR. HASSELMAN: And Mr. Cebulko's testimony<br>and exhibits have been admitted into the record, and he<br>is available for questions.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | clearly state to Puget that, here are your requirements<br>that you need to be changing how you operate as a<br>company in every facet of the company, from the planning<br>to the engineers to the day-to-day staff working on<br>these problems, that you have to change how you're<br>thinking about the problems and the investments that<br>you're making.<br>And so this commission has long held that<br>companies have to make a business case and demonstrate<br>alternatives. My observation is that pipeline<br>investments have not been held to close scrutiny to this<br>point.<br>And so what I'm asking the commission to do is<br>say, every investment needs to have this alternative<br>analysis, right, and that is not to say that every<br>analysis will show that non-pipeline alternative is<br>feasible or cost-effective rather than being able to<br>change their their their planning and operations<br>practices.<br>Q. So basically you're saying that they have to be<br>considered, but you're also saying that they have a<br>burden of proof, and it is their burden to show that                                |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | THE WITNESS: Thank you.<br>JUDGE HUGHES: Thank you. Redirect?<br>MS. MOSER: No. Thank you, Your Honor.<br>JUDGE HUGHES: Very good. You are<br>dismissed.<br>All right. We'll be calling Bradley Cebulko.<br>Good morning. Welcome.<br>MR. CEBULKO: Good morning.<br>JUDGE HUGHES: Please raise your right hand.<br>BRADLEY CEBULKO, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Very good. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MR. HASSELMAN:<br>Q. Mr. Cebulko, can you please state and spell<br>your name for the record?<br>A. Yes. My name is Bradley Cebulko, B-r-a-d-I-e-y<br>C-e-b-u-I-k-o.<br>MR. HASSELMAN: And Mr. Cebulko's testimony<br>and exhibits have been admitted into the record, and he<br>is available for questions.<br>CHAIR DANNER: All right. Thank you. | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>clearly state to Puget that, here are your requirements that you need to be changing how you operate as a company in every facet of the company, from the planning to the engineers to the day-to-day staff working on these problems, that you have to change how you're thinking about the problems and the investments that you're making.</li> <li>And so this commission has long held that companies have to make a business case and demonstrate alternatives. My observation is that pipeline investments have not been held to close scrutiny to this point.</li> <li>And so what I'm asking the commission to do is say, every investment needs to have this alternative analysis, right, and that is not to say that every analysis will show that non-pipeline alternative is feasible or cost-effective rather than being able to change their their planning and operations practices.</li> <li>Q. So basically you're saying that they have to be considered, but you're also saying that they have a burden of proof, and it is their burden to show that they've considered these alternatives and there is a</li> </ul> |

13 (Pages 334 to 337)

|                      | Page 338   |          | Page 340   |  |
|----------------------|--|----------|--|--|
| 1                    | when they come forth for any rate recovery of capital  | 1        | through its first Phase 1 of the pilots.   |  |
| 2                    | investments.   | 2        | What I've seen with Phase 2 is, they're just   |  |
| 3                    | Q. And is that already required by 1589, to your   | 3        | pretty much pilot Phase 1 carryover to pilot Phase 2                                       |  |
| 4                    | knowledge?   | 4        | modest goals, 1,000 customers. The market is   |  |
| 5                    | A. I'm not sure I'm qualified to give a legal  | 5        | sufficiently there that Puget can roll out a broader                                       |  |
| 6                    | opinion about 1589.  | 6        | electrification plan at this time, targeting existing                                      |  |
| 7                    | Generally, my experience with gas-integrated   | 7        | customers.   |  |
| 8                    | resource planning in this state is that they've been   | 8        | construction. Right? Those King County and other areas                                     |  |
| 9<br>10              | mostly looking at resource procurement on the gas side.  | 9<br>10  |  |  |
|                      | Which supply basin are you pulling from? What pipeline   | 11       | within Puget Sound are still adding new housing  |  |
| 11<br>12             | are you running that through? Do we need a new   | 12       | developments. There are opportunities to work with   |  |
| 13                   | transmission pipeline that Puget probably won't even   | 13       | those developers on electrification market   |  |
| 14                   | build. Right? It's a third party.<br>Do you need an LNG facility possibly propane.                                       | 14       | transformation and as well as providing general<br>electrification plans of programs.      |  |
| 15                   | Right? How you going to manage the peak?   | 15       | So while my proposal might feel ambitious, I   |  |
| 16                   | That's different than looking at the   | 16       | don't actually think it is because the scale of what                                       |  |
| 17                   | distribution system, right, and looking at the thousands   | 17       | Puget needs to do to achieve its decarbonization goals                                     |  |
| 18                   | of relatively small capital expenditures that go into  | 18       | requires something far more ambitious than what we put                                     |  |
| 19                   | the distribution system.   | 19       | forth here.  |  |
| 20                   | EXAMINATION  | 20       | Q. So just on Pearl Street Mall my   |  |
| 21                   | BY COMMISSIONER DOUMIT:  | 21       | understanding of Pearl Street Mall in Boulder, Colorado,                                   |  |
| 22                   | Q. Mr. Cebulko, I want to give you a little canvas   | 22       | it's sort of like neighborhood, right, businesses  |  |
| 23                   | to paint on here. Okay. Counsel for Joint  | 23       | A. Yeah.   |  |
| 24                   | Environmental Advocates said we need to be at 200,000  | 24       | Q essentially and the cost differential  |  |
| 25                   | buildings electrified by 2030. We heard Witness Landers  | 25       | between repairing gas system and electrifying, which is                                    |  |
|                      |  |          |  |  |
|                      | Page 339   |          | Page 341   |  |
| 1                    | yesterday say that across the country success is coming  | 1        | why it was clearly cost-effective to go electric.  |  |
| 2                    | in ones and fives.   | 2        | A. Mm-hm.  |  |
| 3                    | How do we go from where we are now to the  | 3        | Q. And I was slightly surprised, you know, myself  |  |
| 4                    | vision that counsel set forth?   | 4        | that the businesses there, which are mainly, you know,                                     |  |
| 5                    | A. So what I heard from Witness Landers was that   | 5        | restaurants  |  |
| 6                    | he was talking about targeted electrification and the  | 6        | A. Mm-hm.  |  |
| 7                    | de paired with the decommission of the pipe, right,  | 7        | Q weren't protesting this, as we've seen here,   |  |
| 8                    | and that tends to be smaller.  | 8        | you know, wanting to continue to cook with gas, as it                                      |  |
| 9                    | Although Puget in this case did propose a  | 9        | were.  |  |
| 10                   | targeted electrification project, we've seen some other  | 10       | So, I mean, is that something is that  |  |
| 11                   | proposals and implementations elsewhere. Colorado is a   | 11       | one-off situation replicable here, would you say?  |  |
| 12                   | great example with Xcel and their Pearl Street Mall  | 12       | A. I do want to make a distinction here between  |  |
| 13<br>14             | electrified 66 customer decommissioning section.   | 13<br>14 | kind of the targeted electrification paired with   |  |
| 14<br>15             | Sticking with Colorado, though, in Xcel's recent clean heat plan, the commission ordered a very                          | 15       | decommissioning and then a broad general interpretation.<br>Right? Two different programs. |  |
| 16                   | ambitious electrification plan in the tens of thousands.   | 16       | One is the broad general electrification   |  |
| 17                   | I actually have the numbers pulled up in front of me   | 17       | program is fairly easy to administer, and it's random.                                     |  |
| 18                   | here.  | 18       | Right? It's not necessarily paired with  |  |
| 19                   | But they're ordering the company to spend looks  | 19       | decommissioning. The decommissioning is the hard part.                                     |  |
| 19                   | like 75 million in 2025 on electrification, 112 million  | 20       | Right?   |  |
| 20                   |  | 20       | And yes, I think it's been observed that that  |  |
| 20<br>21             | IN 2026 TANE OF TROUGANDE OF CUETOMORE ON  |          | And yes, I think it's been upselved that that  |  |
| 21                   | in 2026, tens of thousands of customers on<br>electrification  | 2.2      | can be challenging particularly because there is still                                     |  |
| 21<br>22             | electrification.   | 22       | can be challenging particularly because there is still<br>an obligation to serve Right?    |  |
| 21<br>22<br>23       | electrification.<br>My proposal is a little scaled down from there,  | 23       | an obligation to serve. Right?   |  |
| 21<br>22<br>23<br>24 | electrification.<br>My proposal is a little scaled down from there,<br>right, 7,500 customers in 2025. You have to start | 23<br>24 | an obligation to serve. Right?<br>And that's why I you know, there's a recent              |  |
| 21<br>22<br>23       | electrification.<br>My proposal is a little scaled down from there,  | 23       | an obligation to serve. Right?   |  |

14 (Pages 338 to 341)

|  | Page 342  |   | Page 344   |
|--|---|---|--|
| 1  |   | 1   | _  |
| 1  | system rulemaking, talking about their experience at  | 1   | initial C, H-i-g-g-i-n-s.  |
| 2  | PG&E in California and that one to five customers seems   | 2   | Q. And by whom are you employed and what's your  |
| 3  | to be a more doable range, and that seems right to me.  | 3   | position?  |
| 4  | But nevertheless, it you know, as the the   | 4   | A. I'm a principal in the firm Energy Strategies.  |
| 5  | company should be looking for opportunities, not  | 5   | MS. BAKER: Great. Mr. Higgins' prefiled  |
| 6  | necessarily it's kind of part of its routine  | 6   | testimony and exhibits have been entered by stipulation.   |
| 7  | examination of, you know, alternatives or opportunities   | 7   | Mr. Higgins is now available for cross.  |
| 8  | that come up from talking to their, you know, customers.  | 8   | JUDGE HUGHES: Thank you. Staff, please   |
| 9  | But then also it's worth remembering that NPAs  | 9   | proceed.   |
| 10   | are not just targeted to electrification. Right? There  | 10  | CROSS-EXAMINATION  |
| 11   | is opportunities to do pipeline repair. There are   | 11  | BY MS. GAFKEN:   |
| 12   | opportunities that to do demand side management   | 12  | Q. Good morning, Mr. Higgins.  |
| 13   | through either additional energy efficiency and   | 13  | A. Good morning.   |
| 14   | weatherization, paired with electrification.  | 14  | Q. Would you turn to your direct testimony KCH-1T.   |
| 15   | Gas utilities have been doing supplies on NPAs  | 15  | Go to Page 2, lines 8 through 12.  |
| 16   | for a long time, right, through CNG tracks, needle  | 16  | A. Which lines, please?  |
| 17   | peaks. You pull those in as well. So really what I'm  | 17  | Q. 8 through 12.   |
| 18   | asking is just to because of the risk before the  | 18  | A. Yes. I see that.  |
| 19   | utility of the decarbonization targets, the very real   | 19  | Q. Okay. There you indicate that you have  |
| 20   | risk, as Puget is already experiencing of declining   | 20  | testified before this commission in several Puget Sound  |
| 21   | customer demand in growing capex, what the company  | 21  | Energy cases, going back to 2001; correct?   |
| 22   | should be looking for opportunities to to avoid   | 22  | A. Yes.  |
| 23   | capital expenditures where it can.  | 23  | Q. Those cases include rate cases and other PSE  |
| 24   | COMMISSIONER DOUMIT: Thank you. Thanks so   | 24  | filings; correct?  |
| 25   | much.   | 25  | A. Yes.  |
|  | Page 343  |   | Page 345   |
| 1  | JUDGE HUGHES: Thank you. You are excused.   | 1   | Q. Have your appearances consistently been on  |
| 2  | Kevin Higgins.  | 2   | behalf of large volume customers?  |
| 3  | CHAIR DANNER: So, Your Honor, I'm wondering   | 3   | A. In the yes. In the gas proceedings, yes.  |
| 4  | if we can take a short break. It's almost 10:30. I  | 4   | I've also participated in Puget Sound Energy   |
| 5  | could use a few minutes. Thank you.   | 5   | cases on behalf of The Kroger Co. on the electric side,  |
| 6  | JUDGE HUGHES: Okay. We will be taking a   |   |  |
|  |   | 6   | who also is a large customer, smaller facilities, but a  |
| 7  | I'm sorry for prematurely calling you.  | 6<br>7  | -  |
| 7<br>8   | I'm sorry for prematurely calling you.<br>We will be taking a brief recess, say, until  |   | who also is a large customer, smaller facilities, but a  |
|  |   | 7   | who also is a large customer, smaller facilities, but a large volume customer.   |
| 8  | We will be taking a brief recess, say, until  | 7<br>8  | who also is a large customer, smaller facilities, but a large volume customer.<br>Q. Do you recall participating on behalf of Nucor  |
| 8<br>9   | We will be taking a brief recess, say, until 10:35. And then during the recess, the counsel could   | 7<br>8<br>9   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> </ul>  |
| 8<br>9<br>10   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.   | 7<br>8<br>9<br>10   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> </ul>  |
| 8<br>9<br>10<br>11   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.  | 7<br>8<br>9<br>10<br>11   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> </ul>  |
| 8<br>9<br>10<br>11<br>12   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)  | 7<br>8<br>9<br>10<br>11<br>12   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if</li> </ul>   |
| 8<br>9<br>10<br>11<br>12<br>13   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's   | 7<br>8<br>9<br>10<br>11<br>12<br>13   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate</li> </ul>  |
| 8<br>9<br>10<br>11<br>12<br>13<br>14   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.  | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> </ul>   |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your   | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> </ul>  |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:   | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your</li> </ul>   |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn  | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> </ul>   |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Thank you. Please introduce<br>the witness.  | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> <li>Do you recall that the 2008 collaborative did</li> </ul>  |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Thank you. Please introduce<br>the witness.<br>DIRECT EXAMINATION  | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> <li>Do you recall that the 2008 collaborative did not result in a consensus or resolution of how to</li> </ul>  |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Thank you. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MS. BAKER:   | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> <li>Do you recall that the 2008 collaborative did not result in a consensus or resolution of how to allocate natural gas mains?</li> </ul>  |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Thank you. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MS. BAKER:<br>Q. Okay. Good morning, Mr. Higgins. For the  | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> <li>Do you recall that the 2008 collaborative did not result in a consensus or resolution of how to allocate natural gas mains?</li> <li>A. Yes, I do recall that.</li> </ul>   |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Thank you. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MS. BAKER:<br>Q. Okay. Good morning, Mr. Higgins. For the<br>record, can you please state and spell your name? | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> <li>Do you recall that the 2008 collaborative did not result in a consensus or resolution of how to allocate natural gas mains?</li> <li>A. Yes, I do recall that.</li> <li>Q. Are you familiar with the commission's rules on</li> </ul> |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | We will be taking a brief recess, say, until<br>10:35. And then during the recess, the counsel could<br>come up, and we can have a brief chat on exhibit stuff.<br>So let's go off the record.<br>(Recess from 10:25 a.m. to 10:41 a.m.)<br>JUDGE HUGHES: We are back at 10:41. Let's<br>be on the record.<br>Okay. Mr. Higgins, will you please raise your<br>right hand.<br>KEVIN C. HIGGINS, having been first duly sworn<br>testified as follows:<br>JUDGE HUGHES: Thank you. Please introduce<br>the witness.<br>DIRECT EXAMINATION<br>BY MS. BAKER:<br>Q. Okay. Good morning, Mr. Higgins. For the  | 7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | <ul> <li>who also is a large customer, smaller facilities, but a large volume customer.</li> <li>Q. Do you recall participating on behalf of Nucor in the 2008 natural gas collaborative that was conducted following Puget Sound Energy's 2007 general rate case?</li> <li>A. I have a general recollection of that, yes.</li> <li>Q. And that collaborative was conducted to see if parties could reach a consensus on methods to allocate costs related to natural gas mains; is that correct?</li> <li>A. That's my recollection. It was quite a while ago, but, yes, I agree with that description.</li> <li>Q. That is fair.</li> <li>And to be clear, I'm only asking about your recollection, so not asking you to guess.</li> <li>Do you recall that the 2008 collaborative did not result in a consensus or resolution of how to allocate natural gas mains?</li> <li>A. Yes, I do recall that.</li> </ul>   |

15 (Pages 342 to 345)

|                            | Page 346  |                | Page 348  |  |
|----------------------------|---|----------------|---|--|
| 1                          | Chapter 480-85 WAC?   | 1              | the number of customers and partially on peak demand;   |  |
| 2                          | A. Yes, I am.   | 2              | correct?  |  |
| 3                          | Q. Those rules went into effect in 2020; correct?   | 3              | A. That is an approach parties have advocated,  |  |
| 4                          | A. Yes.   | 4              | yes.  |  |
| 5                          | Q. Prior to the rulemaking that resulted in the   | 5              | Q. And are you familiar with the peak and average   |  |
| 6                          | adoption of Chapter 480-85 WAC rate case, parties   | 6              | method in which mains are allocated partially on peak   |  |
| 7                          | proposed several methods to allocate natural gas mains  | 7              | demand and partially on throughput or average day   |  |
| 8                          | across customer classes; is that correct?   | 8              | demand?   |  |
| 9                          | A. Yes.   | 9              | A. Yes, I am.   |  |
| 10                         | Q. Is it fair to say that the issue of how to   | 10             | Q. Comparing allocation I'm sorry. If I can   |  |
| 11                         | allocate the cost of natural gas mains has been in  | 11             | get the words out correctly.  |  |
| 12                         | controversy for at least 20 years?  | 12             | Comparing allocating mains using a peak and   |  |
| 13                         | A. That's fair to say. It's probably also fair to   | 13             | average method with allocating mains based partially on   |  |
| 14                         | say that that's true about class cost allocation around   | 14             | the number of customers and partially on peak demand, is  |  |
| 15                         | the country for both gas and electric service.  | 15             | it correct that small volume customers benefit more   |  |
| 16                         | Q. Is it fair to characterize the controversy as  | 16             | under a peak and average method as opposed to customer  |  |
| 17                         | involving disagreement between larger and smaller   | 17             | demand method?  |  |
| 18                         | customer advocates regarding how to allocate the cost of  | 18             | A. Can you please repeat your question?   |  |
| 19                         | small, medium, and large diameter sized mains?  | 19             | Q. I will. There's a couple of moving parts   |  |
| 20                         | A. Certainly agree with that as being one of the  | 20             | there.  |  |
| 21                         | issues of contention, yes, in the Puget Sound territory.  | 21             | A. Yeah.  |  |
| 22                         | Q. Understanding that there's probably other  | 22             | Q. So comparing allocation allocating mains   |  |
| 23                         | things that were argued about as well during that time  | 23             | using a peak and average method, with allocating mains  |  |
| 24                         | period, but I do want to focus on the main distribution   | 24             | based partially on the number of customers and partially  |  |
| 25                         | aspect of that controversy.   | 25             | on peak demand, is it correct that small volume   |  |
|                            | Page 347  |                | Page 349  |  |
| 1                          | Some parties, such as yourself, on behalf of  | 1              | customers benefit more under a peak and average method  |  |
| 2                          | large volume users have advocated an approach that  | 2              | as opposed to a customer demand method?   |  |
| 3                          | excluded large volume customers from assignment of small  | 3              | A. I think what's throwing you off about your   |  |
| 4                          | diameter mains; correct?  | 4              | question, Ms. Gafken, is, I think at the end of your  |  |
| 5                          | A. Yes.   | 5              | question you're leaving out the customer.   |  |
| 6                          | Q. And other parties have disagreed with that   | 6              | I believe you're asking you're asking, are  |  |
| 7                          | approach; right?  | 7              | smaller customers better off under peak and average   |  |
| 8                          | A. Yes.   | 8              | versus something else, and the something else you're  |  |
| 9                          | Q. The idea that large volume customers should be   | 9              | referring to is peak demand customer.   |  |
| 10                         | excluded from assignment of smaller diameter mains is   | 10             | Q. Right.   |  |
| 11                         | sometimes referred to as skeletonization of the natural   | 11             | A. Okay.  |  |
| 12                         | gas system; correct?  | 12             | Q. Yes. That is that's a correct understanding  |  |
| 13                         | A. Can you say that word again, please?   | 13             | of the question.  |  |
| 14                         | Q. Sure. I'll re-ask the question.  | 14             | A. Okay. Well, I would say that the impact is   |  |
| 15                         | The idea that large customers large volume  | 15             | going to depend on any particular study. Okay. But I  |  |
| 16                         | customers should be excluded from assignment of small   | 16             | would agree that, as the general matter, smaller  |  |
| 17                         | diameter sized mains is sometimes referred to as  | 17             | customers would receive a lower allocation if there is  |  |
|                            | skeletonization of the natural gas system; correct?   | 18             | not a customer component to the cost classification.  |  |
| 18                         |   | 19             | MS. GAFKEN: I just want to ask quickly if   |  |
| 18<br>19                   | A. You know, I'll be candid. I'm not familiar   |                |   |  |
|                            |   | 20             | folks are able to hear the witness sufficiently. The  |  |
| 19<br>20                   | with the term "skeletonization," but I can infer what   | 20<br>21       | folks are able to hear the witness sufficiently. The<br>volume to me sounds a little bit lower.                                       |  |
| 19                         | with the term "skeletonization," but I can infer what you mean by it.   | 1              | folks are able to hear the witness sufficiently. The volume to me sounds a little bit lower.<br>THE WITNESS: I will sit closer to the |  |
| 19<br>20<br>21             | with the term "skeletonization," but I can infer what<br>you mean by it.<br><b>Q. Okay. Fair enough. I'd like to talk about the</b>                       | 21             | volume to me sounds a little bit lower.<br>THE WITNESS: I will sit closer to the  |  |
| 19<br>20<br>21<br>22       | with the term "skeletonization," but I can infer what<br>you mean by it.<br>Q. Okay. Fair enough. I'd like to talk about the<br>idea of peak and average. | 21<br>22       | volume to me sounds a little bit lower.<br>THE WITNESS: I will sit closer to the<br>screen. Unfortunately, it makes you makes my face |  |
| 19<br>20<br>21<br>22<br>23 | with the term "skeletonization," but I can infer what<br>you mean by it.<br><b>Q. Okay. Fair enough. I'd like to talk about the</b>                       | 21<br>22<br>23 | volume to me sounds a little bit lower.<br>THE WITNESS: I will sit closer to the  |  |

|                                  | Page 350  |                      | Page 352  |
|----------------------------------|---|----------------------|---|
| 1                                | MS. GAFKEN: I think that did help with the  | 1                    | demands?  |
| 2                                | volume, so thank you for doing that. I wasn't sure if   | 2                    | A. I'm aware, yes, that that had been an issue  |
| 3                                | it was a tech issue on our side or your side, so thank  | 3                    | that has been addressed in prior Puget cases, yes.  |
| 4                                | you. That does seem to help.  | 4                    | Q. Through the rulemaking, the commission adopted   |
| 5                                | Q. (By Ms. Gafken) Okay. You may have covered   | 5                    | some usage of design day demands; is that correct?  |
| 6                                | this in your last answer, but I want to make sure that  | 6                    | A. Yes. And I'm must say, I completely agree that   |
| 7                                | you did have an opportunity to talk about it.   | 7                    | that's the right way to go.   |
| 8                                | Why is it that smaller volume customers would   | 8                    | Q. Design day demands are basically calculated  |
| 9                                | benefit more under a peak and average method as opposed   | 9                    | based on the coldest day possible on the natural gas  |
| 10                               | to a customer demand method?  | 10                   | system; correct?  |
| 11                               | A. Okay. As opposed to a customer demand method,  | 11                   | A. If not the coldest day possible, it is a day   |
| 12                               | combined with a oh, you said customer demand method.  | 12                   | for which the a cold day for which the system is  |
| 13                               | You're using the word customer, okay, to describe the   | 13                   | designed to serve.  |
| 14                               | customer component. I follow.   | 14                   | Q. If design day demands are used to define peak  |
| 15                               | Generally speaking, a smaller volume customers  | 15                   | demand instead of actual test year peak commands, this  |
| 16                               | are you know, receive lower allocation of costs if  | 16                   | tends to benefit large volume users over small volume   |
| 17                               | there is not a customer component included in the mains   | 17                   | users; is that correct?   |
| 18                               | allocation.   | 18                   | A. Well, it it tends to assign more costs to  |
| 19                               | Q. Is a component of it also that residential   | 19                   | weather sensitive classes because, you know, the system   |
| 20                               | customers comprise of 90 percent of a utility's   | 20                   | was is designed to serve weather sensitive classes in   |
| 21                               | customers, whereas industrial customers are large volume  | 21                   | particular on those cold days.  |
| 22                               | customers, represent a smaller percentage of overall  | 22                   | And so to the extent that large volume users  |
| 23                               | customers?  | 23                   | are less weather sensitive, it the use of the design  |
| 24                               | A. Well, that is a consequence of the math of   | 24                   | day is results in a lower allocation than usually,  |
| 25                               | using a customer allocator, yes.  | 25                   | you know, in actual historical number.  |
|                                  | Page 351  |                      | Page 353  |
| 1                                | Q. Okay. Focusing on peak and average,  | 1                    | Q. So I actually thought you had participated in  |
| 2                                | historically, parties have presented different proposals  | 2                    | the commissions cost of service rulemaking, but am I  |
| 3                                | regarding how to weigh the peak and how to weigh the  | 3                    | correct in understanding that you did not participate in  |
| 4                                | average, with some parties advocating that weighting  | 4                    | that rulemaking that resulted in the adoption of  |
| 5                                | should be based on a system load factor while others  | 5                    | Chapter 480-85 WAC?   |
| 6                                | advocated a 50/50 weighting between peak and average; is  | 6                    | A. That is correct.   |
| 7                                | that correct?   | 7                    | Q. My memory sometimes is faulty.   |
| 8                                | A. That is sometimes a debate that occurs in gas  | 8                    | Could you please turn to your direct testimony,   |
| 9                                | cost allocation, yes.   | 9                    | which is Exhibit KCH-1T, and go to Page 5.  |
| 10                               | Q. I want to explore the benefits that various  | 10                   | A. Yes. I'm there.  |
| 11                               | size customers could receive under those two proposals.   | 11                   | Q. Perfect. At Lines 12 through 20, you quote   |
| 12                               | Could you explain why it is more beneficial to  | 12                   | from the general order R599 from the commission's   |
| 13                               | large volume customers to base the weighting between the  | 13                   | rulemaking that adopted the cost of service rules;  |
| 14                               | peak and average on a system load factor basis versus a   | 14                   | correct?  |
| 15                               | 50/50 weighting?  | 15                   | A. Yes.   |
| 16                               | A. Well, it all depends on the on the system  | 16                   | Q. Have you read the entire order?  |
| 17                               | load factor that occurs. So if the system load factor   | 17                   | A. Yes, I have.   |
|                                  | is, you know, below 50 percent, it's going to provide a   | 18                   | Q. Okay. You cite to Paragraph 77 in your   |
| 18                               |   |                      | testimony; correct?   |
| 18<br>19                         | lower assignment of costs than a 50 percent. So, you  | 19                   | •   |
| 18<br>19<br>20                   | know and that means that, you know, a higher volume   | 20                   | A. Yes, I do.   |
| 18<br>19<br>20<br>21             | know and that means that, you know, a higher volume user, all things equal, would have a as a class, have   | 20<br>21             | A. Yes, I do.<br>Q. And that paragraph explained a modification the   |
| 18<br>19<br>20<br>21<br>22       | know and that means that, you know, a higher volume<br>user, all things equal, would have a as a class, have<br>a lower allocation of throughput costs.   | 20<br>21<br>22       | <ul> <li>A. Yes, I do.</li> <li>Q. And that paragraph explained a modification the commission made to the allocation of distribution mains;</li> </ul>          |
| 18<br>19<br>20<br>21<br>22<br>23 | <ul> <li>know and that means that, you know, a higher volume user, all things equal, would have a as a class, have a lower allocation of throughput costs.</li> <li>Q. Focusing on peak demand, do you recall that for</li> </ul> | 20<br>21<br>22<br>23 | <ul> <li>A. Yes, I do.</li> <li>Q. And that paragraph explained a modification the commission made to the allocation of distribution mains; correct?</li> </ul> |
| 18<br>19<br>20<br>21<br>22       | know and that means that, you know, a higher volume<br>user, all things equal, would have a as a class, have<br>a lower allocation of throughput costs.   | 20<br>21<br>22       | <ul> <li>A. Yes, I do.</li> <li>Q. And that paragraph explained a modification the commission made to the allocation of distribution mains;</li> </ul>          |

17 (Pages 350 to 353)

| WUTC v. Puget Sound Energy / In the Matter of: Puget Sound Energy |  | Docket Nos. UE-240004, UG-240005, and UE-230810 (Consolidated) - Vol. |   |  |
|---|--|---|---|--|
|   | Page 354   |   | Page 356  |  |
| 1   | Table 4 of WAC 480-85-060 and states, Direct assignment  | 1   | effect, directly assigned the costs of the facilities.            |  |
| 2   | of distribution mains to a single customer class where   | 2   | Q. Let me ask about that last thing you just said.                |  |
| 3   | practical. All other costs assigned based on design  | 3   | Does that mean that a certain pipe could be                       |  |
| 4   | day, peak, and annual throughput average based on system   | 4   | directly assigned to multiple classes of customers?               |  |
| 5   | load factor; is that correct?  | 5   | A. In effect. And, of course, by "directly                        |  |
| 6   | A. Yes.  | 6   | assigned," in that case, it would be the costs would              |  |
| 7   | Q. So direct assignment of mains is permitted  | 7   | be exclusive to those classes, and among those classes,           |  |
| 8   | under the rule; correct?   | 8   | the costs would be allocated.                                     |  |
| 9   | A. Yes, it is.   | 9   | Q. Please turn to your direct testimony,                          |  |
| 10  | Q. Would an example of direct assignment of gas  | 10  | Exhibit KCH-1T, and go to Page 6.                                 |  |
| 11  | mains to an individual customer be assigning a dedicated   | 11  | A. I'm there.   |  |
| 12  | spur that serves one customer from an interstate   | 12  | Q. Okay. So we're actually going to go to Line 17                 |  |
| 13  | pipeline?  | 13  | and then continue on to Page 7 through Line 12.                   |  |
| 14  | A. Yes, it would.  | 14  | A. Okay.  |  |
| 15  | Q. And in that example, the spur is dedicated for  | 15  | Q. Okay. There you discuss certain clarification                  |  |
| 16  | that one customer, and the customer does not rely on any   | 16  | requested by Puget Sound Energy in the cost of service            |  |
| 17  | other mains within the utility system; correct?  | 17  | study rulemaking pertaining to using main pipe diameter           |  |
| 18  | A. That would be an example of direct assignment   | 18  | to allocate costs; correct?                                       |  |
| 19  | that would be, you know, consistent.   | 19  | A. Yes.   |  |
| 20  | Q. Generally speaking, mains can serve one   | 20  | Q. You testified that the commission summarized                   |  |
| 21  | customer or multiple customers or multiple classes of  | 21  | and adopted staff's response, which was that the rules            |  |
| 22  | customers; correct?  | 22  | are clear and do not allow for use of main pipe diameter          |  |
| 23  | A. Correct.  | 23  | to allocate costs; correct?                                       |  |
| 24  | Q. Direct assignment is different than allocation  | 24  | A. Yes.   |  |
| 25  | of mains that serve multiple customers or customer   | 25  | Q. I want to refer you to a cross exhibit, and I'm                |  |
|   | Page 355   |   | Page 357  |  |
| 1   | classes; correct?  | 1   | hoping that you have the numbers on them, but it's cross          |  |
| 2   | A. Not necessarily. I I I appreciate the   | 2   | Exhibit KCH-11X, which is a transcript from the rule              |  |
| 3   | distinction that you're making, but I do believe that an   | 3   | adoption hearing in that rulemaking.                              |  |
| 4   | aspect of direct assignment is the or a corollary is   | 4   | Do you have that available?                                       |  |
| 5   | that customer classes that do not use the facilities   | 5   | A. I do have that available, and I have it up on                  |  |
| 6   | they are being directly assigned are not assigned those  | 6   | my screen right now.  |  |
| 7   | costs.   | 7   | Q. Perfect. The page number that I refer to is                    |  |
| 8   | So, whereas, like, if you consider a   | 8   | going to be the exhibit page number in the top should             |  |
| 9   | hypothetical, if you consider a facility that is only  | 9   | be the top right-hand corner, if you could turn to                |  |
| 10  | used by one customer class and you directly assign the   | 10  | Page 14.  |  |
| 11  | costs of that facility to that customer class, you've  | 11  | A. I'm there.   |  |
| 12  | simultaneously shielded all the other customers from   | 12  | Q. Perfect.   |  |
| 13  | those costs.   | 13  | Referring to Line 17 to 19, do you see that the                   |  |
| 14  | Now, consider suppose that class is broken   | 14  | speaker is Chad Stokes, representing the Alliance of              |  |
| 15  | up into two other classes. You would have more than one  | 15  | Western Energy Customers?   |  |
| 16  | class using the directly assigned facility, but that   | 16  | A. I want to make sure that I'm on the right page                 |  |
| 17  | should not change the logic that the other classes are   | 17  | because you said Page 14?   |  |
| 18  | not allocated those costs.   | 18  | Q. I did. Page 14, Line 17 to 19.                                 |  |
| 19  | So whereas, it typically direct  | 19  | A. I believe that Page 14 on the upper right-hand                 |  |
| 20  | assignment is used in the way that you've described,   | 20  | column is Mr. Pilianas (phonetic).                                |  |
| 21  | Ms. Gafken, but I do believe the principle of it,  | 21  | Q. You are correct. I have my page numbers mixed                  |  |
| 22  | particularly as emphasized in the commission's order, is   | 22  | up. Page 15 of the exhibit. If I was referring to                 |  |
| 23  | a main sints that an all a second by the sect all a setting a sector   | 1 0 0   | Page 14 of the actual transcript my appleates                     |  |
| 24  | a principle that applies equally to not allocating costs to classes that do not use certain facility, even if it | 23<br>24  | Page 14 of the actual transcript, my apologies.<br>A. No worries. |  |

a to classes that do not use certain facility, even if it
 means that conceptually more than one class is, in

18 (Pages 354 to 357)

Yes. I now see the page that you mentioned

25

|          | Page 358   |          | Page 360  |
|----------|--|----------|---|
| 1        | Mr. Stokes is responding.  | 1        | less cost to large volume customers and more cost to  |
| 2        | Q. Okay. I have another page reference, and I                    | 2        | small volume customers; correct?  |
| 3        | want to double check that it's the same before I send            | 3        | A. Yes. But I think the magnitude is important.   |
| 4        | you someplace where we're not going.                             | 4        | Changing this allocation, as I'm proposing, would   |
| 5        | Okay. If you could turn to Page 17 of the                        | 5        | reverse a 67 percent increase in rate base to   |
| 6        | exhibit and look at Lines 7 through 15.                          | 6        | Schedules 87 and 87T and would result in less than a  |
| 7        | A. Yes. I'm there.   |          |   |
|          |  |          | 1 percent increase in gross.  |
| 8        | Q. There Chad Stokes referred to the same request                | 8        | So directionally, it does move in the direction   |
| 9        | for clarification about using pipe diameter to allocate          | 9        | you're describing, but it has you know, not   |
| 10       | costs; correct?  | 10       | allocating mains the way I'm recommending has a very big  |
| 11       | A. Yes.  | 11       | negative impact on classes like 87 and 87T and a very   |
| 12       | Q. And on that same page, Lines 18 through 20,                   | 12       | small almost negligible impact on other classes.  |
| 13       | Chad Stokes states, AWEC urges the commission to make            | 13       | Q. You also accept the use of system load factor  |
| 14       | clear that the size of pipe can be used to allocate the          | 14       | for the weighting between peak and average under the  |
| 15       | cost to certain customers.                                       | 15       | peak and average methodology; correct?  |
| 16       | Is it your understanding that the commission                     | 16       | A. Yes.   |
| 17<br>18 | did not adopt AWEC's request and its order or in WAC 480-85-060? | 17       | Q. By accepting the system load factor, this<br>allows less cost to be assigned to large volume |
|          |  | 18       | customers and measure cost to be assigned to small  |
| 19       | A. That's my understanding. And I also understand                | 19       |   |
| 20       | that the commission's rules allow for a party to request         | 20       | volume customers; is that correct?  |
| 21<br>22 | an exemption. And so to the extent that an exemption is          | 21       | A. The system load factor is the standard way of  |
| 23       | required to the commission to consider my recommendation         | 22<br>23 | using the peak and average method. So that, you know,   |
|          | with Nucor's, I make such a request.                             | 23       | when you say, by accepting it, I'm, you know, agreeing  |
| 24<br>25 | Q. Do you recognize that WAC 480-85-060 represents               | 24       | with some sort of cost shift, but simply accepting the  |
| 20       | a compromise reached during the rulemaking, and to reach         | 25       | growth factor of weighting means I'm accepting the  |
|          | Page 359   |          | Page 361  |
| 1        | that compromise, the commission considered arguments             | 1        | standard approach for using the peak and average method   |
| 2        | from several experts representing a wide range of                | 2        | for gas cost allocation.  |
| 3        | interests?   | 3        | Q. My question goes more towards the impact of  |
| 4        | A. As I did not participate directly in that, I                  | 4        | that particular part of the WAC.  |
| 5        | you know, I I don't have a reason to dispute your                | 5        | And so yes, it is part of the standard, but the   |
| 6        | characterization of it.  | 6        | impact of that standard does allow less cost to be  |
| 7        | But I don't know firsthand of any of the                         | 7        | assigned to large volume users and more cost to be  |
| 8        | compromises that may have been reached or concluded, you         | 8        | assigned to small volume users; correct?  |
| 9        | know. I'm really simply arguing, you know, a specific            | 9        | A. I don't I don't really agree with that.  |
| 10       | point principle here, but I hope the commission will             | 10       | Let's if we take a step back, the peak and average  |
| 11       | reconsider.  | 11       | method in the first place is a method that is used to   |
| 12       | Q. Comparing your proposal to what is set out in                 | 12       | for the purpose of allocating substantial costs to large  |
| 13       | WAC 480-85-060 for allocating gas mains, you rejected            | 13       | volume users because there is a volumetric component to   |
| 14       | certain aspects and accepted certain aspects.                    | 14       | it.   |
| 15       | Is that a correct characterization?                              | 15       | I mean, there are other methods that for  |
| 16       | A. I'm not quite sure what you you're referring                  | 16       | allocating, you know, gas system costs that don't even  |
| 17       | to, so maybe could you please clarify that?                      | 17       | use and so the very fact that peak and average is   |
| 18       | Q. Sure. And maybe taking a different approach to                | 18       | being used in the first place is is the adoption of a   |
| 19       | it, we can go through the different aspects.                     | 19       | method that, by design, allocates substantial costs to  |
| 20       | You reject allocating small mains to large                       | 20       | high volume users.  |
| 21       | volume customers and instead recommend that the                  | 21       | Now, I think what you're asking me about is,  |
| 22       | commission allocate mains based on the pipe size; is             | 22       | well, does the fact that the volumetric component is  |
| 23       | that correct?  | 23       | weighted by system load factor does that provide, you   |
| 24       | A. Yes.  | 24       | know, a benefit to the large volume users?  |
| 25       | Q. And the effect of this would be to allocate                   | 25       | And I would just say, well, the method in the   |
|          |  |          |   |

19 (Pages 358 to 361)

|  | Page 362   | Page 364   |
|--|--|--|
| 1  | first place is the method that is designed to make sure  | 1 MS. JOHANSON-KUBIN: I believe that we  |
| 2  | that large volume users get allocated substantial costs.   | 2 traditionally ask for it to be due one week after the  |
| 3  | Using the system load factor does provide a  | 3 hearing.   |
| 4  | lower allocation of those costs than using some  | 4 JUDGE HUGHES: Okay. So November 12th? Or   |
| 5  | arbitrary number like 50 percent.  | 5 is the there's a holiday.  |
| 6  | So I think if that's what you're, you know,  | 6 MS. JOHANSON-KUBIN: Yes. Let me check my   |
| 7  | wanting me to get out of the question, I would agree   | 7 calendar.  |
| 8  | with you, that 50 percent would be a larger allocation,  | 8 COMMISSIONER RENDAHL: We may have discussed  |
| 9  | but that would be, in my view, an arbitrary average.   | 9 that during the public comment hearing, and I'm not  |
| 10   | Q. You also accept the use of design day demands   | 10 recalling at this moment what we decided.   |
| 11   | within the determination of peak demands instead of  | 11 MS. JOHANSON-KUBIN: Yes. We did discuss it  |
| 12   | using actual test year peak day demands; correct?  | 12 at the public comment hearing.  |
| 13   | A. Yes. I I accept all of the assumptions that   | 13 CHAIR DANNER: We did. And I believe we  |
| 14   | Puget Sound Energy used in its analysis, with the sole   | 14 agreed that the close of business on November 12th would  |
| 15   | exception of the allocation of the small and medium  | 15 be the appropriate deadline for that exhibit.   |
| 16   | means.   | 16 JUDGE HUGHES: Okay. Well, close of  |
| 17   | Q. And similar to what we talked about in terms of   | 17 business November 12th it is.   |
| 18   | the system load factor, benefits to the large volume   | 18         And we will designate that as a bench exhibit   |
| 19   | customers, using design day demands also allows less   | 19 and number it as, I think, Bench Exhibit 1. It will be  |
| 20   | cost to be assigned to large volume users and more costs   | <sup>20</sup> filed in the docket on the 12th.   |
| 21   | to be assigned to small volume users as compared to  | 21 So that brings us to briefs. A few issues   |
| 22   | using the test year peak demand days; correct?   | 22 here. We have one round of post-hearing briefs due  |
| 23   | A. The design day demand appropriately allocates   | 23 December 4th, 2024. Just based off of the we have an  |
| 24   | more costs to classes that are rather sensitive, and to  | 24 election going on today, which may impact the length of   |
| 25   | the extent that large volume users are less weather  | 25 this brief.   |
|  |  |  |
|  | Page 363   | Page 365   |
| 1  | Page 363   | Page 365   |
| 1  | sensitive than it, you know, allocates fewer costs to  | 1 So assuming nothing is repealed and nothing  |
| 2  | sensitive than it, you know, allocates fewer costs to them than a historical test period, I agree with that as   | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> </ol>  |
| 2<br>3   | sensitive than it, you know, allocates fewer costs to them than a historical test period, I agree with that as we discussed previously.  | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> </ol>   |
| 2<br>3<br>4  | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I  | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> </ol>   |
| 2<br>3   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.  | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> </ol>  |
| 2<br>3<br>4<br>5   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.   | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> </ol>  |
| 2<br>3<br>4<br>5<br>6  | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?  | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> </ol>  |
| 2<br>3<br>4<br>5<br>6<br>7   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.   | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> </ol>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.  | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> </ol>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any  | <ol> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> <li>JUDGE HUGHES: So any strong feelings</li> </ol>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?   | <ul> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> <li>JUDGE HUGHES: So any strong feelings</li> <li>amongst the parties? I'll start with PSE.</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.  | <ul> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> <li>JUDGE HUGHES: So any strong feelings</li> <li>amongst the parties? I'll start with PSE.</li> <li>MS. CARSON: PSE requests more than 60</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.   | <ul> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> <li>JUDGE HUGHES: So any strong feelings</li> <li>amongst the parties? I'll start with PSE.</li> <li>MS. CARSON: PSE requests more than 60</li> <li>pages. I mean, PSE has to respond to there's ten</li> </ul>  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to   | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.   | <ul> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> <li>JUDGE HUGHES: So any strong feelings</li> <li>amongst the parties? I'll start with PSE.</li> <li>MS. CARSON: PSE requests more than 60</li> <li>pages. I mean, PSE has to respond to there's ten</li> <li>different parties, and we pretty much have to respond to</li> <li>all of them. Whereas, other parties don't necessarily</li> <li>need to do that. They have limited issues.</li> <li>So I think I think the fair way would be for</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a   | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                     | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written  | <ul> <li>So assuming nothing is repealed and nothing</li> <li>changes, how many pages would the parties like, starting</li> <li>with staff?</li> <li>MS. GAFKEN: I think the standard 60 should</li> <li>be sufficient. I realize that this is a very large case</li> <li>with lots of issues, so I think we're also amenable to a</li> <li>different length if other parties strongly feel that</li> <li>they need more, but I think 60 should be sufficient.</li> <li>JUDGE HUGHES: So any strong feelings</li> <li>amongst the parties? I'll start with PSE.</li> <li>MS. CARSON: PSE requests more than 60</li> <li>pages. I mean, PSE has to respond to there's ten</li> <li>different parties, and we pretty much have to respond to</li> <li>all of them. Whereas, other parties don't necessarily</li> <li>need to do that. They have limited issues.</li> <li>So I think I think the fair way would be for</li> <li>PSE to have more pages than other parties, but at a</li> <li>minimum, I think we would want, you know, either 75</li> </ul>   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19                               | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.  | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                         | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.<br>And I believe that brings us to the end of  | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no20opportunity for reply brief.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21                   | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.<br>And I believe that brings us to the end of<br>cross-examinations. So I have a few other items before   | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no20opportunity for reply brief.21JUDGE HUGHES: Okay. Before we oh   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22             | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.<br>And I believe that brings us to the end of<br>cross-examinations. So I have a few other items before<br>we get out of here.   | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no20opportunity for reply brief.21JUDGE HUGHES: Okay. Before we oh22Joint Environmental Advocates?   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.<br>And I believe that brings us to the end of<br>cross-examinations. So I have a few other items before<br>we get out of here.<br>For the public comment, how long does public  | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no20opportunity for reply brief.21JUDGE HUGHES: Okay. Before we oh22MR. HASSELMAN: We will not be filing a   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.<br>And I believe that brings us to the end of<br>cross-examinations. So I have a few other items before<br>we get out of here.<br>For the public comment, how long does public<br>counsel need to compile any public comments received | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no20opportunity for reply brief.21JUDGE HUGHES: Okay. Before we oh22Joint Environmental Advocates?23MR. HASSELMAN: We will not be filing a2460-page brief. We'll file something shorter than that. |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23       | sensitive than it, you know, allocates fewer costs to<br>them than a historical test period, I agree with that as<br>we discussed previously.<br>MS. GAFKEN: Okay. Thank you very much. I<br>have no further questions.<br>THE WITNESS: Thank you.<br>JUDGE HUGHES: Any redirect?<br>MS. BAKER: None, Your Honor.<br>JUDGE HUGHES: Thank you. You are any<br>questions from the bench?<br>You are dismissed. Thank you.<br>JUDGE HUGHES: Okay. I'm going to<br>confirming Mike Gorman, Greg Meyer will not be available<br>before 1:00?<br>MS. JOHANSON-KUBIN: Yes. That's correct.<br>JUDGE HUGHES: Okay. I'm not angry. I'm a<br>little disappointed, but we'll proceed with written<br>bench requests for that.<br>And I believe that brings us to the end of<br>cross-examinations. So I have a few other items before<br>we get out of here.<br>For the public comment, how long does public  | 1So assuming nothing is repealed and nothing2changes, how many pages would the parties like, starting3with staff?4MS. GAFKEN: I think the standard 60 should5be sufficient. I realize that this is a very large case6with lots of issues, so I think we're also amenable to a7different length if other parties strongly feel that8they need more, but I think 60 should be sufficient.9JUDGE HUGHES: So any strong feelings10amongst the parties? I'll start with PSE.11MS. CARSON: PSE requests more than 6012pages. I mean, PSE has to respond to there's ten13different parties, and we pretty much have to respond to14all of them. Whereas, other parties don't necessarily15need to do that. They have limited issues.16So I think I think the fair way would be for17PSE to have more pages than other parties, but at a18minimum, I think we would want, you know, either 7519pages or just not have a page limit since there is no20opportunity for reply brief.21JUDGE HUGHES: Okay. Before we oh22MR. HASSELMAN: We will not be filing a   |

20 (Pages 362 to 365)

|    | ruger Sound Energy / In the Matter of. Fuger Sound Energy | DUCR | et Nos. 0E-240004, 0G-240005, and 0E-250810 (Consolidated) - Vol. |
|----|---|------|---|
|    | Page 366  |      | Page 368  |
| 1  | MS. MOSER: I expect we will also have a                   | 1    | JUDGE HUGHES: Okay.   |
| 2  | brief shorter than 60 pages, but I'm not particularly     | 2    | COMMISSIONER RENDAHL: Just curious what the                       |
| 3  | worried about a page limit or not having one.             | 3    | parties what your thoughts are in terms of additional             |
| 4  | JUDGE HUGHES: Okay. Any of the parties on                 | 4    | pages you would need.   |
| 5  | the line outside of the room?                             | 5    | Do we think five could work? But, again, this                     |
| 6  | MS. JOHANSON-KUBIN: Public counsel feels 60               | 6    | is potentially significant.                                       |
| 7  | pages is sufficient.                                      | 7    | MS. CARSON: So would this be five pages in                        |
| 8  | JUDGE HUGHES: Okay. The Energy Project?                   | 8    | addition to the 75? Is that what we're talking about?             |
| 9  | MR. ZAKAI: Good morning. The Energy                       | 9    | CHAIR DANNER: That's what I'm thinking.                           |
| 10 | Project will file a brief less than 60 pages and has no   | 10   | And, of course, if we read these and we feel our brains           |
| 11 | preference. Thank you.                                    | 11   | are going to explode, we might have to have more                  |
| 12 | JUDGE HUGHES: Very good. Nucor?                           | 12   | briefing or something, but that's where I would like to           |
| 13 | MR. XENOPOULOS: That's more than adequate                 | 13   | start.  |
| 14 | for us. Thank you, Your Honor.                            | 14   | MS. CARSON: I think that makes sense, from                        |
| 15 | JUDGE HUGHES: Very good. Federal agencies?                | 15   | PSE's perspective.  |
| 16 | MS. LIOTTA: Yes, Your Honor. I think we                   | 16   | MS. GAFKEN: That make sense to staff as                           |
| 17 | will not have a brief that long, so 60 pages is more      | 17   | well.   |
| 18 | than enough for us. Thank you.                            | 18   | JUDGE HUGHES: Okay. Let's give an                                 |
| 19 | JUDGE HUGHES: Very good. Fred Meyer?                      | 19   | opportunity for any objections?                                   |
| 20 | MR. BOEHM: Thank you, Your Honor. 60 pages                | 20   | Hearing nothing, we will do the 75 pages with                     |
| 21 | is more than enough for us.                               | 21   | an optional plus five, depending.                                 |
| 22 | JUDGE HUGHES: Very good. Walmart?                         | 22   | Are there any questions from the parties?                         |
| 23 | MS. CAVIGLIA: Thank you, Your Honor. We                   | 23   | Hearing nothing, once more, is there anything                     |
| 24 | are the same. 60 pages is more than we'll need.           | 24   | else we need to address today?                                    |
| 25 | JUDGE HUGHES: Fantastic. Microsoft.                       | 25   | Okay. Good. Thank you to all the parties,                         |
|    |   |      |   |
|    | Page 367  |      | Page 369  |
| 1  | UNIDENTIFIED SPEAKER: Sixty is fine for                   | 1    | witnesses, and representatives. Your professionalism              |
| 2  | Microsoft. Thank you.                                     | 2    | made this go very smoothly, and I appreciate that, so             |
| 3  | JUDGE HUGHES: I apologize. Did I forget                   | 3    | thank you.  |
| 4  | any party?  | 4    | We are adjourned and off the record. Thank                        |
| 5  | All right. So that's the easy of the brief                | 5    | you.  |
| 6  | questions.  | 6    | (Hearing concluded at 11:19 a.m.)                                 |
| 7  | There is an election going on and as I                    | 7    | ( 3 ,   |
| 8  | mentioned, and the outcome of some initiatives may have   | 8    |   |
| 9  | some impacts on this proceeding.                          | 9    |   |
| 10 | COMMISSIONER RENDAHL: I guess just in                     | 10   |   |
| 11 | response to Puget Sound Energy, I think 75 is fine with   | 11   |   |
| 12 | 75.   | 12   |   |
| 13 | JUDGE HUGHES: Okay.                                       | 13   |   |
| 14 | COMMISSIONER RENDAHL: I don't know about my               | 14   |   |
| 15 | colleagues.   | 15   |   |
| 16 | CHAIR DANNER: Yeah. I don't have a problem                | 16   |   |
| 17 | with 75, and I we have commitments from many other        | 17   |   |
| 18 | parties that their briefs will be less than 60, so we     | 18   |   |
| 19 | can deal with that. But, no, seriously a 75-page limit    | 19   |   |
| 20 | would be fine.  | 20   |   |
| 21 | I would also make some accommodation if there             | 21   |   |
| 22 | are any developments this evening that that we need       | 22   |   |
| 23 | to be informed about. You know, I would want to allow     | 23   |   |
| 24 | the parties at least five pages to discuss that and any   | 24   |   |
| 25 | impacts that they feel that we need to know.              | 25   |   |
|    |   |      |   |

|          | Page 370  |  |
|----------|---|--|
| 1        | CERTIFICATE   |  |
| 2        |   |  |
| 3        | STATE OF WASHINGTON   |  |
| 4        | COUNTY OF THURSTON  |  |
| 5        |   |  |
| 6<br>7   | I, ANDREA L. CLEVENGER, a Certified Court<br>Reporter in and for the State of Washington, do hereby |  |
| 8        | certify that the foregoing transcript of the evidentiary  |  |
| 9        | hearing on November 5, 2024, is true and accurate to the  |  |
| 10       | best of my knowledge, skill and ability.  |  |
| 11       | IN WITNESS WHEREOF, I have hereunto set my hand   |  |
| 12       | and seal this 20th day of November, 2024.   |  |
| 13       |   |  |
| 14       |   |  |
| 15       | - Amper 2 Clivinger -   |  |
| 16<br>17 | ANDREA L. CLEVENGER, CCR, RPR #3041   |  |
| 17<br>18 | My commission expires:  |  |
| 10<br>19 | DECEMBER 19, 2025   |  |
| 20       | 5202MBER 10, 2020   |  |
| 21       |   |  |
| 22       |   |  |
| 23       |   |  |
| 24       |   |  |
| 25       |   |  |
|          |   |  |
|          |   |  |

| Page | 371 |
|------|-----|
|------|-----|

|                           |                           |                          |                          | Fage ST I                 |
|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------|
|                           | 299:18                    | 356:8 362:2              | 337:15,16 362:14         | argued 346:23             |
| <u>A</u>                  | administer 341:17         | <b>allocates</b> 321:7   | <b>Analytics</b> 327:15  | arguing 359:9             |
| <b>a.m</b> 292:2 343:12   | administrative            | 361:19 362:23            | Andrea 286:25            | arguments 359:1           |
| 343:12 369:6              | 287:5 292:7,10            | 363:1                    | 370:6,16                 | <b>aside</b> 336:9        |
| <b>ability</b> 370:10     | admitted 300:23           | <b>allocating</b> 321:22 | angry 363:17             | <b>asked</b> 330:4        |
| <b>able</b> 337:17 349:20 | 310:11 327:20             | e                        | <b>Ann</b> 287:3         |                           |
| accept 360:13             |                           | 348:12,13,22,23          |                          | <b>asking</b> 319:6       |
| 362:10,13                 | 335:21                    | 355:23 359:13,20         | annual 294:15            | 336:24 337:13,25          |
| accepted 359:14           | adopt 358:17              | 360:10 361:12,16         | 296:20 297:1             | 342:18 345:18,19          |
| accepting 304:17          | adopted 352:4             | <b>allocation</b> 314:23 | 305:14,23,24             | 349:6,6 361:21            |
| 360:17,23,24,25           | 353:13 356:21             | 315:11,13,15,16          | 307:10,16 330:13         | aspect 346:25             |
| access 321:14             | adoption 346:6            | 315:20 346:14            | 330:18 354:4             | 355:4                     |
| accommodation             | 353:4 357:3               | 348:10,22 349:17         | answer 315:1             | aspects 359:14,14         |
| 367:21                    | 361:18                    | 350:16,18 351:9          | 329:21 350:6             | 359:19                    |
| account 295:11            | <b>advocated</b> 347:2,24 | 351:22 352:24            | <b>answers</b> 314:20    | <b>assess</b> 336:7       |
| 302:19 322:25             | 348:3 351:6               | 353:22 354:24            | anticipating 316:12      | assessing 336:21          |
| accounting 286:13         | advocates 288:2           | 360:4 361:2 362:4        | apologies 327:8          | <b>assign</b> 352:18      |
| 286:14                    | 338:24 346:18             | 362:8,15                 | 357:23                   | 355:10                    |
| accurate 370:9            | 365:22                    | allocator 350:25         | apologize 307:3          | assigned 312:2            |
| achieve 340:17            | advocating 351:4          | <b>allow</b> 356:22      | 367:3                    | 313:22 324:21             |
| acquisition 308:4         | affect 308:3              | 358:20 361:6             | <b>appear</b> 304:12,21  | 354:3 355:6,6,16          |
| action 297:2              | agencies 288:10           | 367:23                   | appearances 345:1        | 356:1,4,6 360:18          |
| actionable 308:15         | 366:15                    | <b>allows</b> 360:18     | appeared 353:25          | 360:19 361:7,8            |
| actual 294:3 299:17       | <b>agenda</b> 296:5,13,14 | 362:19                   | appearing 327:16         | 362:20,21                 |
| 351:25 352:15,25          | 297:2                     | alternative 301:24       | <b>appears</b> 305:11    | assigning 312:18          |
| 357:23 362:12             | <b>ago</b> 328:6 345:16   | 308:16,18 337:14         | applicable 314:20        | 323:22 354:11             |
| actuals 295:24            | <b>agree</b> 345:16       | 337:16                   | <b>applies</b> 355:23    | assignment 323:19         |
| add 322:24 323:1          | 346:20 349:16             | alternatively            | appreciate 308:8         | 325:6 347:3,10,16         |
| 323:17                    | 352:6 361:9 362:7         | 326:23                   | 334:24 355:2             | 351:19 354:1,7,10         |
| adding 340:10             | 363:2                     | alternatives 308:15      | 369:2                    | 354:18,24 355:4           |
| addition 368:8            | agreed 364:14             | 336:7 337:10,23          | approach 296:20          | 355:20                    |
| additional 298:22         | agreeing 360:23           | 342:7                    | 296:22 297:1             | Assistant 287:17          |
| 298:23 342:13             | agreement 286:14          | ambitious 339:16         | 347:2,7 348:3            | associated 332:17         |
| 368:3                     | agreements 301:8          | 340:15,18                | 359:18 361:1             | <b>assume</b> 305:17      |
| additions 301:15          | 328:12                    | amenable 365:6           | appropriate 331:5        | 320:19                    |
| <b>additive</b> 336:14    | ahold 309:13              | <b>AMI</b> 293:19,19     | 364:15                   | assuming 313:16           |
|                           | akin 319:5                | 294:13 295:2             | appropriately            | 324:10 365:1              |
| address 295:5             | <b>Alliance</b> 357:14    | amount 298:9             | 362:23                   | assumption 321:1          |
| 296:8 368:24              | allocate 345:13,22        | 313:22 314:7,11          | approved 351:24          | assumptions               |
| addressed 294:14          | 346:7,11,18               | 315:18                   | approximated             | 330:24 362:13             |
| 352:3 353:25              | 356:18,23 358:9           | amounts 295:12           | 315:6                    | <b>Attachment</b> 317:4   |
| Adequacy 331:17           | 358:14 359:22,25          | 297:12 299:11,12         | approximately            | attempt 309:12            |
| adequate 301:11           | <b>allocated</b> 312:18   | <b>ample</b> 306:18      | 294:4 313:8              | <b>attention</b> 316:19   |
| 306:22 328:15             | 314:12 315:10,18          | analogously 304:20       | 322:23                   | <b>Attorney</b> 287:17,22 |
| 366:13                    | ,                         | <u> </u>                 |                          | <b>attributes</b> 332:25  |
| adjourned 369:4           | 321:9 322:4,5             | analogy 304:14           | <b>arbitrary</b> 362:5,9 |                           |
| adjustment 306:12         | 323:14 347:25             | analysis 321:7           | areas 340:9              | 333:10                    |
| adjustments               | 348:6 355:18              | 323:18 324:20            | <b>argue</b> 304:9,16    | Authorizing 286:13        |
|                           | l                         |                          | l                        | I                         |

|                      |   |                              | 1                               |                            |
|----------------------|---|------------------------------|---------------------------------|----------------------------|
| availability 333:14  | 352:9 354:3,4                                       | 366:20                       | <u> </u>                        | carefully 302:3            |
| available 293:9      | 359:22 364:23                                       | border 318:19                | $\frac{c}{C 287:1 288:1}$       | <b>carries</b> 332:24      |
| 299:22 309:11,15     | basically 301:19                                    | 319:18,20 320:3,7            | 289:1,14 291:3                  | carryover 340:3            |
| 310:12 326:21        | 302:4 303:19  | 320:12,17,23                 | 314:9 329:17                    | cars 304:15,15,17          |
| 327:21 335:22        | 337:20 352:8  | 322:12,15 323:23             | 331:18,20 332:8                 | 304:17                     |
| 344:7 357:4,5        | <b>basin</b> 338:10                                 | 324:4,9,17,22                | 332:18 333:16                   | <b>CARSON</b> 287:9        |
| 363:14               | <b>basis</b> 337:24 351:14                          | 325:4                        | 343:17,25 344:1                 | 317:8 365:11               |
| <b>Avenue</b> 287:23 | behalf 345:2,5,8                                    | <b>bottom</b> 325:11         | 370:1,1                         | 368:7,14                   |
| 288:4,12,12          | 347:1   | <b>Boulder</b> 340:21        | <b>C-e-b-u-l-k-o</b>            | case 296:19 330:25         |
| average 315:15       | <b>Behle</b> 289:21                                 | box 287:17 322:19            | 335:19                          | 337:9 339:9                |
| 347:23 348:5,7,13    | <b>believe</b> 292:16                               | <b>boy</b> 317:8             | <b>C3</b> 311:14                | 345:10 346:6               |
| 348:16,23 349:1,7    | 294:8,16 301:19                                     | <b>Bradley</b> 290:16,20     | <b>calculate</b> 308:17         | 356:6 365:5                |
| 350:9 351:1,4,6      | 306:21 309:16                                       | 327:2,4,13 335:6             | 313:12                          | <b>cases</b> 307:7 344:21  |
| 351:14 354:4         | 310:12,24 313:14                                    | 335:10,18                    | calculated 313:19               | 344:23,23 345:5            |
| 360:14,15,22         | 349:6 355:3,21                                      | brains 368:10                | 313:21,24 314:7                 | 352:3                      |
| 361:1,10,17 362:9    | 357:19 363:20                                       | break 343:4                  | 313:21,24 314:7                 | <b>CAVIGLIA</b> 289:20     |
| avoid 342:22         | 364:1,13  | Brew 289:4                   | calculating 301:25              | 366:23                     |
| aware 316:3 320:25   | <b>Bellevue</b> 287:12                              | <b>brief</b> 343:8,10        | 315:18                          | CCA 332:2                  |
| 352:2                | bench 293:11  | 364:25 365:20,24             | <b>calculation</b> 305:7        | CCR 286:25                 |
| AWEC 288:15          | 325:16 326:23                                       | 366:2,10,17 367:5            | 312:3 330:9                     | 370:16                     |
| 310:9 327:16         | 327:22 363:10,19                                    | <b>briefing</b> 368:12       | <b>calculations</b> 314:19      | <b>Cebulko</b> 290:20      |
| 328:14 330:8         | 364:18,19   | briefs 364:21,22             | 314:22                          | 335:6,8,10,16,18           |
| 358:13 365:25        | <b>beneficial</b> 351:12                            | 367:18                       |                                 | 336:3 338:22               |
| AWEC's 309:14        | benefit 322:4                                       | bringing 295:3               | <b>calendar</b> 294:16<br>364:7 | <b>Cebulko's</b> 335:20    |
| 312:15,19,23         | 348:15 349:1  | brings 363:20                | · ·                             | <b>CEIP</b> 297:15 329:3   |
| 315:25 316:4         | 350:9 352:16  | 364:21                       | <b>California</b> 288:13        | CEIP-related               |
| 358:17               | 361:24  | <b>broad</b> 341:14,16       | 288:24 342:2                    | 297:14,25 298:7            |
|                      | <b>benefits</b> 351:10                              | <b>broader</b> 329:5         | <b>call</b> 309:6 315:2         | 298:12,18                  |
| B                    | 362:18  | 340:5                        | CALLAGHAN<br>287:16             | certain 355:24             |
| <b>B</b> 317:4,7,8   | <b>best</b> 303:16,16                               | <b>broken</b> 355:14         |                                 | 356:3,15 358:15            |
| B-r-a-d-l-e-y        | 370:10  | Brown 287:6                  | <b>calling</b> 298:14           | 359:14,14                  |
| 335:18               | <b>better</b> 349:7,24                              | 292:11                       | 335:6 343:7                     | <b>certainly</b> 307:15,20 |
| back 309:9 313:2     | <b>bid</b> 303:7,7,12,13                            | <b>budget</b> 297:20         | <b>candid</b> 347:19            | 325:2 328:17               |
| 322:12,15 323:3      | 308:18,20   | 298:10                       | <b>canvas</b> 338:22            | 330:25 332:24              |
| 343:13 344:21        | <b>bidding</b> 333:7                                | <b>build</b> 338:13          | <b>capacity</b> 301:20,21       | 333:4 346:20               |
| 361:10               | <b>bids</b> 302:12,13                               | buildings 338:25             | 302:7,8,25 303:24               | <b>Certified</b> 370:6     |
| Baker 289:4 291:4    | 303:11  | <b>burden</b> 336:6          | 304:3,7,10 308:15               | certify 370:8              |
| 343:22 344:5         | <b>big</b> 329:16 331:2                             | 337:22,22                    | 308:17 329:7,11                 | <b>Chad</b> 357:14 358:8   |
| 363:8                | 332:6 360:10  | <b>business</b> 337:9        | 329:18,19 332:7                 | 358:13                     |
| base 297:16 351:13   | <b>bigger</b> 349:24                                | 364:14,17                    | 333:8 334:5,14                  | <b>Chair</b> 287:3 290:5   |
| 360:5                | <b>Bijan</b> 287:7 292:7                            | <b>businesses</b> 340:22     | capex 342:21                    | 290:11,15,22               |
| based 302:20         | <b>bilateral</b> 334:21                             | 341:4                        | <b>capital</b> 294:15           | 293:13 295:25              |
| 314:23 323:17        | <b>bill</b> 336:12,15,17,18                         | <b>buy</b> 304:11,11,12      | 297:1 338:1,18                  | 299:24 300:3,5,7           |
| 329:25,25 331:8      | <b>bit</b> 308:6 349:21                             | 304:15                       | 342:23                          | 308:11 309:1               |
| 333:22 336:23        | blank 311:8   | <b>BYRON</b> 287:10          | <b>captioned</b> 292:14         | 325:18,20 326:13           |
| 348:13,24 351:5      | Boehm 289:9,9                                       | <b>D I I I I I I I I I I</b> | <b>car</b> 304:18,19            | 335:23 336:2               |
|                      | <b>200</b> , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, |                              | <b>carbon</b> 332:4             | 555.25 550.2               |
|                      | 1   |                              | 1                               | 1                          |

|                             |                            |                               |                           | Faye 373                   |
|-----------------------------|----------------------------|-------------------------------|---------------------------|----------------------------|
| 343:3 364:13                | 355:25                     | <b>comes</b> 325:12           | 337:3 339:19,25           | confirming 363:14          |
| 367:16 368:9                | <b>classes</b> 346:8       | coming 324:8                  | 342:5,21                  | congestion 331:1           |
| challenging 341:22          | 352:19,20 354:21           | 328:23 339:1                  | company's 293:18          | connect 319:13             |
| <b>chance</b> 296:12        | 355:1,5,15,17,24           | commands 352:15               | 295:8 297:20              | connecting 323:23          |
| 306:22 307:8                | 356:4,7,7 360:11           | comment 333:5                 | 298:20 299:1              | connection 318:2,4         |
| 332:10                      | 360:12 362:24              | 363:23 364:9,12               | 336:10                    | 318:5                      |
| <b>change</b> 305:11,13     | classification             | <b>comments</b> 363:24        | <b>compare</b> 333:4      | <b>consensus</b> 345:13    |
| 305:23 306:11               | 349:18                     | commercial 326:8              | compared 301:20           | 345:21                     |
| 321:15 322:16               | <b>classified</b> 347:25   | commission 286:2              | 362:21                    |                            |
| 329:14 330:15               | clean 297:13               | 286:4 287:2 292:9             | <b>comparing</b> 348:10   | consequence<br>350:24      |
| 337:5,18 355:17             | 339:15                     | 292:15 295:4,10               | 348:12,22 359:12          | <b>consider</b> 355:8,9,14 |
| ,                           | <b>clear</b> 295:21 297:19 | 292.13 293.4,10 295:16 311:10 | ·                         | 358:22                     |
| <b>changes</b> 329:14 365:2 | 310:25 345:18              |                               | compensated<br>295:13     |                            |
|                             |                            | 326:22 336:6,24               |                           | <b>considered</b> 337:21   |
| <b>changing</b> 337:2       | 356:22 358:14              | 337:8,13 339:15               | compile 363:24            | 337:23 359:1               |
| 360:4<br>Chapter 246:1.6    | <b>clearly</b> 301:24      | 344:20 351:24                 | <b>Complainant</b> 286:5  | consistent 354:19          |
| <b>Chapter</b> 346:1,6      | 337:1 341:1                | 352:4 353:22                  | completely 352:6          | consistently 345:1         |
| 353:5                       | <b>Cleve</b> 288:17        | 356:20 358:13,16              | compliance 329:3          | consolidated 286:6         |
| characterization            | 289:15                     | 358:22 359:1,10               | 332:2                     | 307:24                     |
| 359:6,15                    | <b>Clevenger</b> 286:25    | 359:22 370:18                 | <b>component</b> 349:18   | consolidates 307:13        |
| characterize                | 370:6,16                   | <b>commission's</b> 299:3     | 350:14,17,19              | constant 299:7,15          |
| 346:16                      | close 325:4 337:11         | 299:18 345:24                 | 361:13,22                 | construct 334:8            |
| characterized               | 364:14,16                  | 353:12 355:22                 | components 302:6          | construction 340:9         |
| 295:15                      | closer 349:22              | 358:20                        | 302:6,11,15,16            | consultant 310:9           |
| <b>chat</b> 343:10          | Club 288:8                 | Commissioner                  | 336:13,18                 | 327:16                     |
| <b>check</b> 358:3 364:6    | <b>CNG</b> 342:16          | 287:3,4 290:6,9               | comprise 350:20           | contain 308:14             |
| checking 326:18             | <b>Cogent</b> 303:18,19    | 290:10,18,19,23               | compromise 358:25         | contained 299:12           |
| <b>Chris</b> 290:3 292:17   | <b>Coie</b> 287:11         | 296:1,3 299:19                | 359:1                     | contains 316:6             |
| 292:20 293:5                | <b>cold</b> 352:12,21      | 301:2 306:2,6                 | compromises 359:8         | contemporaneous            |
| Cincinnati 289:11           | coldest 352:9,11           | 308:7 317:6,9                 | <b>concept</b> 330:18     | 301:21 304:12,22           |
| circulates 296:17           | collaborative 345:9        | 327:23 328:2                  | conceptually              | contention 346:21          |
| circumstances               | 345:12,20                  | 331:8,10,13,16                | 355:25                    | <b>contest</b> 297:13      |
| 295:21,23 296:21            | colleagues 299:20          | 334:23 338:21                 | <b>concern</b> 296:9      | 330:17,23                  |
| <b>cite</b> 305:2 353:18    | 304:24 367:15              | 342:24 364:8                  | 301:14 306:17             | <b>context</b> 330:13      |
| claiming 301:7              | <b>Colorado</b> 339:11     | 367:10,14 368:2               | concerned 328:19          | contingencies              |
| 328:11                      | 339:14 340:21              | commissioners                 | 328:24                    | 297:5,12,22                |
| <b>claims</b> 297:24        | <b>column</b> 312:6,7      | 292:10 298:21                 | <b>concerns</b> 301:17    | contingency 297:25         |
| 304:6 336:11                | 313:9,20,24,25,25          | commissions 353:2             | 330:2 333:10              | 298:4,7,8,9,15,24          |
| clarification 297:3         | 314:3,7,8,9,13             | commitments                   | concluded 359:8           | 299:5                      |
| 356:15 358:9                | 357:20                     | 367:17                        | 369:6                     | <b>continue</b> 292:12     |
| <b>clarify</b> 306:10,14    | <b>columns</b> 314:19      | communities                   | <b>conducted</b> 345:9,12 | 295:13 341:8               |
| 314:17 317:6                | <b>combine</b> 307:16      | 307:22                        | <b>CONE</b> 302:17,20     | 356:13                     |
| 359:17                      | combined 302:14            | companies 337:9               | 302:22,22                 | Continuing 291:1           |
| clarifying 334:17           | 350:12                     | <b>company</b> 293:25         | confidential 302:2        | <b>contract</b> 301:18,20  |
| <b>class</b> 346:14 351:21  | <b>come</b> 302:5 303:17   | 295:12 297:24                 | 315:24 316:11,12          | 301:22,25 302:6            |
| 351:25 354:2                | 338:1 342:8                | 298:2,11 299:6,8              | 316:13,15                 | 303:1,6,10,13,18           |
| 355:10,11,14,16             | 343:10                     | 305:3 330:6 337:3             | <b>confirm</b> 313:15     | 303:24 304:2,4,4           |
|                             |                            |                               |                           |                            |
| L                           |                            |                               |                           |                            |

| <b>F</b>                 |                       |                           |  | 1 uge 07 4                |
|--------------------------|-----------------------|---------------------------|--|---------------------------|
| 308:1,19,21,24           | 305:4,7,15,15         | <b>course</b> 356:5       | 324:25 325:4                                   | 362:19,23 370:12          |
| 331:18 332:5,8,18        | 306:12,25 307:4       | 368:10                    | 339:21,24 340:4,7                              | day-to-day 337:4          |
| 333:15                   | 307:10,16 314:3,8     | <b>court</b> 334:19 370:6 | 342:2,8 345:2                                  | days 352:21 362:22        |
| contracts 328:22         | 314:11 330:7,9,14     | covered 350:5             | 347:3,9,15,16                                  | DC 289:5                  |
| 328:25 329:3,10          | 332:13 336:21         | create 325:3              | 348:1,14,15,24                                 | <b>de-</b> 339:7          |
| 329:17,18,23             | 340:24 345:25         | criticisms 308:14         | 349:1,7,17 350:8                               | deadline 364:15           |
| 331:19,20,21,22          | 346:11,14,18          | cross 300:6 310:13        | 350:15,20,21,21                                | <b>deal</b> 307:24 367:19 |
| 333:12,16 334:13         | 349:18 351:9          | 311:5,11 312:6            | 350:22,23 351:11                               | debate 329:13             |
| 334:14                   | 353:2,13 356:16       | 313:3 315:22,23           | 351:13 354:21,22                               | 351:8                     |
| controversy 346:12       | 358:15 360:1,1,18     | 316:6 317:19              | 354:25 355:12                                  | decarbonization           |
| 346:16,25                | 360:19,24 361:2,6     | 318:7,25 319:9            | 356:4 357:15                                   | 340:17 342:19             |
| conversation             | 361:7 362:20          | 324:3 344:7               | 358:15 359:21                                  | <b>December</b> 364:23    |
| 334:24                   | cost-effective        | 356:25 357:1              | 360:1,2,19,20                                  | 370:19                    |
| <b>converts</b> 313:10   | 337:17 341:1          | <b>Cross-examination</b>  | 362:19   | decide 333:19             |
| <b>cook</b> 341:8        | costs 297:14 298:7    | 290:14 291:5              | <b>CX</b> 311:8                                | decided 364:10            |
| <b>CORINNE</b> 288:17    | 298:13 299:4,6,16     | 310:17 344:10             | <b>cycle</b> 336:19                            | deciding 295:11           |
| <b>corner</b> 325:12     | 299:17 301:3,15       | cross-examinations        |  | declining 342:20          |
| 357:9                    | 314:13 321:24         | 363:21                    | <u> </u>                                       | decommission              |
| corollary 355:4          | 323:20,22 324:21      | curious 368:2             | <b>D</b> 313:25                                | 339:7                     |
| <b>correct</b> 296:7     | 328:4,9,20 329:14     | current 297:15            | <b>d-e-x</b> 334:18                            | decommissioning           |
| 310:21 312:12,21         | 332:17 336:8,9        | 305:7 330:8               | damages 329:17                                 | 339:13 341:14,19          |
| 312:25 313:4,7,10        | 345:14 350:16         | custody 319:21            | 332:10,22 333:13                               | 341:19                    |
| 314:5,9,14 315:20        | 351:19,22 352:18      | <b>customer</b> 315:7,9   | 333:18,22 334:8                                | <b>dedicated</b> 329:7,18 |
| 317:13,17 318:3,9        | 354:3 355:7,11,13     | 317:16,23 318:9           | <b>DAMON</b> 289:3                             | 331:24 334:2              |
| 318:23 319:3,11          | 355:18,23 356:1,6     | 318:22 320:8,13           | <b>Danner</b> 287:3                            | 354:11,15                 |
| 319:16,18 320:9          | 356:8,18,23           | 321:4,10,23,24            | 290:5,11,15,22                                 | <b>defer</b> 305:4 307:12 |
| 320:14,18,21,24          | 358:10 361:12,16      | 322:5,11 323:5,23         | 293:13 295:25                                  | 330:6                     |
| 321:5,10,14              | 361:19 362:2,4,20     | 324:15,22 325:2           | 299:24 300:3,5,7                               | <b>deferred</b> 286:13    |
| 322:13 324:18,19         | 362:24 363:1          | 325:23 326:5,8            | 308:11 309:1                                   | <b>define</b> 352:14      |
| 344:21,24 345:14         | <b>counsel</b> 287:20 | 339:13 342:21             | 325:18,20 326:13                               | defines 319:20            |
| 346:3,8 347:4,12         | 301:10 305:6          | 345:6,7 346:8,18          | 335:23 336:2                                   | definition 320:2          |
| 347:18 348:2,15          | 306:21 338:23         | 348:16 349:2,5,9          | 343:3 364:13                                   | 351:24                    |
| 348:25 349:12            | 339:4 343:9           | 349:18 350:10,11          | 367:16 368:9                                   | <b>delivery</b> 333:20    |
| 351:7 352:5,10,17        | 363:24 366:6          | 350:12,13,14,17           | <b>data</b> 293:25 294:6                       | demand 334:13             |
| 353:3,6,14,19,23         | counsel's 308:14      | 350:25 354:2,11           | 294:10 298:13                                  | 342:12,21 348:1,7         |
| 354:5,8,17,22,23         | 326:18 328:4          | 354:12,16,16,21           | 312:15,19,23                                   | 348:8,14,17,25            |
| 355:1 356:18,23          | counterparty 332:9    | 354:25 355:5,10           | 315:25 316:4,8                                 | 349:2,9 350:10,11         |
| 357:21 358:10            | 332:12,12 333:19      | 355:11                    | 317:5 318:18,19<br>DATE 286:24                 | 350:12 351:23,25          |
| 359:15,23 360:2          | countervailing        | <b>customer's</b> 317:24  | <b>DATE</b> 286:24                             | 352:15 362:22,23          |
| 360:15,20 361:8          | 302:19                | 320:18,24                 | <b>David</b> 287:3,10<br><b>Davison</b> 288:17 | demands 352:1,5,8         |
| 362:12,22 363:16         | <b>country</b> 339:1  | <b>customers</b> 295:12   | 289:15   | 352:14 362:10,11          |
| corrected 323:1          | 346:15                | 310:22 311:1              | <b>day</b> 348:7 351:25                        | 362:12,19                 |
| <b>correctly</b> 330:22  | <b>County</b> 340:9   | 312:25 315:12,14          | 352:5,8,9,11,11                                | demonstrate 337:9         |
| 348:11                   | 370:4                 | 320:22,25 321:3,8         | 352:12,14,24                                   | <b>DENNISON</b> 288:7     |
| <b>cost</b> 298:19 299:2 | <b>couple</b> 316:18  | 322:1,3,9 323:15          | 354:4 362:10,12                                | denoted 319:18            |
| 301:5,16 302:16          | 336:16 348:19         | 323:25 324:20,24          | 554.4 502.10,12                                | <b>depend</b> 349:15      |
|                          | l                     | l                         | I  | 1                         |

| r                         |                           |                            |   | Fage 375                               |
|---------------------------|---------------------------|----------------------------|---|--|
| depending 305:10          | 299:11,13 302:5           | 335:5 363:11               | 288:3 289:1,1,3                             | 312:24 316:3                           |
| 332:11 368:21             | 303:17,22,22              | dispute 359:5              | 312:6,7 370:1,1                             | 317:21 334:21                          |
| depends 351:16            | 314:22 315:4,17           | distinction 310:25         | <b>E-a-r-l-e</b> 300:21                     | 342:13 344:4,21                        |
| depict 317:15             | 319:22 321:20             | 331:25 341:12              | <b>E-a-1-1-C</b> 500.21<br><b>E3</b> 341:25 | 345:4 356:16                           |
| derive 312:14             | 338:16 341:15             | 355:3                      | E3 341.23<br>Earle 290:7 300:8              | 357:15 362:14                          |
| <b>describe</b> 301:23    | 351:2 354:24              | distribution 338:17        | 300:10,12,20                                | 366:8,9 367:11                         |
| 350:13                    |                           | 338:19 346:24              | 301:3 328:4 330:5                           | ,                                      |
| described 355:20          | 359:18,19 365:7<br>365:13 | 353:22 354:2               | <b>Earle's</b> 300:22                       | <b>Energy's</b> 312:15,19 315:25 316:7 |
|                           |                           |                            |   |  |
| describes 296:17          | differential 340:24       | <b>district</b> 317:24     | earlier 314:16,18                           | 317:4 318:2,8                          |
| describing 360:9          | differently 294:11        | 318:1,20,23                | 315:1<br>Easthing 200:4                     | 345:10                                 |
| description 345:16        | <b>difficult</b> 306:20   | 319:13 322:11              | Earthjustice 288:4                          | engineers 337:4                        |
| <b>design</b> 351:25      | 307:6                     | <b>divided</b> 313:23,25   | easier 307:22,23                            | entered 293:8                          |
| 352:5,8,14,23             | direct 290:4,8,13         | <b>doable</b> 342:3        | East 289:10                                 | 303:6 344:6                            |
| 354:3 361:19              | 290:17,21 291:4           | <b>docket</b> 286:10       | easy 325:6 341:17                           | enters 318:22 320:3                    |
| 362:10,19,23              | 293:1 300:16              | 294:14,16,21               | 367:5                                       | entire 318:7 353:16                    |
| designate 364:18          | 301:8 310:1               | 307:14 311:16              | Economics 310:8                             | entry 302:17                           |
| designated 311:4          | 312:18 318:4              | 364:20                     | effect 346:3 356:1,5                        | environmental                          |
| 311:10 315:23             | 323:12,19 325:6           | dockets 286:5              | 359:25                                      | 288:2 332:25                           |
| <b>designed</b> 352:13,20 | 327:9 328:12              | 292:13 294:16,20           | efficiencies 307:19                         | 333:9 338:24                           |
| 362:1                     | 335:14 343:21             | 295:5 307:24               | efficiency 342:13                           | 365:22                                 |
| detail 301:18             | 344:14 353:8              | <b>doing</b> 306:20        | <b>EIM</b> 331:1,2                          | equal 351:21                           |
| 302:10                    | 354:1,7,10,18,24          | 342:15 350:2               | either 342:13                               | equally 355:23                         |
| details 302:4             | 355:4,19 356:9            | <b>dollars</b> 294:4 314:5 | 365:18                                      | error 295:1,17,18                      |
| determination             | direction 360:8           | <b>double</b> 358:3        | election 364:24                             | essentially 322:3                      |
| 362:11                    | directionally             | <b>Doumit</b> 287:4        | 367:7                                       | 330:1 340:24                           |
| determine 299:2           | 324:10 360:8              | 290:9,18,23 301:2          | <b>electric</b> 341:1 345:5                 | estimate 317:23                        |
| 333:24                    | directly 323:5            | 306:2 327:23               | 345:25 346:15                               | 322:10,16                              |
| determining               | 355:6,10,16 356:1         | 328:2 331:8,16             | electrification                             | estimates 302:8                        |
| 308:15                    | 356:4,5 359:4             | 338:21 342:24              | 339:6,10,16,20,22                           | 312:14 322:7                           |
| develop 302:7             | disadvantaged             | <b>Dr</b> 294:1,7 310:19   | 340:6,12,14                                 | estimating 317:22                      |
| 325:6                     | 307:22                    | 310:21 316:13              | 341:13,16 342:10                            | estimation 312:7                       |
| developers 340:12         | disagreed 347:6           | 328:4 330:4,5              | 342:14                                      | evaluation 301:21                      |
| developments              | disagreement              | <b>driven</b> 329:8 333:8  | electrified 338:25                          | 304:12                                 |
| 340:11 367:22             | 346:17                    | driving 334:12,13          | 339:13                                      | evening 331:14                         |
| deviate 296:25            | disappointed              | <b>due</b> 294:2 301:7     | electrifying 340:25                         | 367:22                                 |
| deviation 296:21          | 363:18                    | 310:24 318:16              | elicit 316:12                               | evidence 300:23                        |
| dex@smxblaw.co            | discovery 297:21          | 328:11 364:2,22            | <b>email</b> 309:6                          | evidentiary 286:17                     |
| 289:7                     | 298:1 318:11              | duly 292:20 300:12         | emergency 336:9                             | 292:12 370:8                           |
| diameter 323:13           | 328:21                    | 309:21 327:4               | emphasize 304:5                             | examination 290:1                      |
| 346:19 347:4,10           | discuss 296:15            | 335:10 343:17              | emphasized 355:22                           | 290:2,4,5,6,8,9,10                     |
| 347:17 356:17,22          | 356:15 364:11             | duplicative 336:11         | <b>employed</b> 310:7,8                     | 290:11,13,15,17                        |
| 358:9                     | 367:24                    | 336:14                     | 327:14 344:2                                | 290:18,19,21,22                        |
| difference 315:5          | discussed 363:3           | dynamic 330:20             | energy 286:7,11                             | 290:23 291:1,2,4                       |
| 331:19 332:6              | 364:8                     |                            | 287:8 288:21                                | 293:1,12 296:2                         |
| differences 294:3         | discussion 296:14         | E                          | 292:15 297:13                               | 300:16 301:1                           |
| different 299:10,10       | dismissed 300:1           | <b>E</b> 287:1,1,6 288:1,1 | 302:4 304:6                                 | 306:5 308:10                           |
| , -                       |                           |                            |   |  |
|                           | •                         | •                          | •   | •                                      |

|                       | _                                     | -                          | _                         |                                       |
|-----------------------|---------------------------------------|----------------------------|---------------------------|---------------------------------------|
| 310:1 325:19          | 297:25 298:3,19                       | 347:19 348:5               | flexibility-type          | framework 332:16                      |
| 327:9 328:1           | <b>expensive</b> 332:19               | Fantastic 366:25           | 333:10                    | Francisco 288:13                      |
| 331:12 335:14         | experience 338:7                      | <b>far</b> 340:18          | <b>flexible</b> 303:25    | 288:24                                |
| 336:1 338:20          | 342:1                                 | faulty 353:7               | 333:1                     | <b>Fred</b> 289:8 366:19              |
| 342:7 343:21          | experiencing                          | Fax 289:6,17               | flow 318:7 320:21         | <b>Free</b> 293:23 295:14             |
| <b>example</b> 295:7  | 342:20                                | <b>feasible</b> 337:17     | 321:9 323:7,8             | 299:13                                |
| 296:24 314:3          | experts 359:2                         | Federal 288:10             | 332:11                    | <b>front</b> 339:17                   |
| 339:12 354:10,15      | <b>expires</b> 370:18                 | 366:15                     | flux 299:7,15             | further 296:15                        |
| 354:18                | <b>explain</b> 298:3 306:8            | feel 316:13 340:15         | focus 346:24              | 299:24 306:3                          |
| exception 362:15      | 315:5 351:12                          | 365:7 367:25               | Focusing 351:1,23         | 318:22 325:9                          |
| excluded 331:3        | explained 353:21                      | 368:10                     | folks 349:20              | 329:23 363:5                          |
| 347:3,10,16           | explaining 294:2                      | feelings 334:9             | follow 296:4 350:14       | furthermore                           |
| exclusive 356:7       | explanation 294:9                     | 365:9                      | <b>follow-up</b> 299:20   | 321:22                                |
| excuse 301:18         | <b>explode</b> 368:11                 | feels 366:6                | 331:11                    | <b>future</b> 331:5                   |
| 308:2 330:5           | <b>explore</b> 351:10                 | feet 313:9,12,17,22        | <b>follow-ups</b> 304:25  | futures 336:22,22                     |
| excused 300:2         | extent 352:22                         | 313:23 314:24              | 306:4 331:8               | ~                                     |
| 309:2 326:15          | 358:21 362:25                         | 323:17                     | followed 322:18,19        | G                                     |
| 343:1                 |                                       | fewer 363:1                | following 345:10          | <b>G</b> 290:16 313:20,24             |
| EXECUTIVE             | F                                     | <b>fifty</b> 314:4         | follows 292:21            | 314:8 327:4                           |
| 288:10                | <b>F</b> 313:9,25 370:1               | fifty-three 314:4          | 300:13 309:22             | Gafken 287:16                         |
| exemption 358:21      | face 349:23                           | figure 298:15 323:8        | 327:5 335:11              | 290:4,14 291:5                        |
| 358:21                | facet 337:3                           | file 311:12,16             | 343:18                    | 293:2,7 310:16,18                     |
| exhibit 294:1 311:5   | facilities 345:6                      | 365:24 366:10              | footage 321:18            | 317:11 325:8                          |
| 311:6,10,11 312:7     | 355:5 356:1                           | filed 294:12,18            | forecast 301:5,16         | 344:11 349:4,19                       |
| 312:20 313:3          | facility 303:19,21                    | 301:9 328:13               | 305:5,13,19,23,24         | 350:1,5 355:21                        |
| 315:23,24,24          | 332:20 334:3                          | 364:20                     | 306:11 308:2              | 363:4 365:4                           |
| 316:6 317:1,19        | 338:14 355:9,11                       | filing 293:19,21           | 328:9 330:7               | 368:16                                |
| 318:7 319:1,9         | 355:16,24                             | 365:23                     | forecasted 293:22         | <b>gas</b> 302:19 311:20              |
| 322:17 324:4          | fact 297:23 298:18                    | filings 344:24             | 294:4 298:20              | 318:8,21 320:3,16                     |
| 343:10 353:9          | 298:23 299:14                         | <b>fill</b> 329:11         | forecasting 295:18        | 320:21 321:4,9                        |
| 356:10,25 357:2,8     | 323:24 326:2                          | <b>find</b> 305:25 319:12  | 295:19 330:14             | 323:7,8,12 324:24                     |
| 357:22 358:6          | 361:17,22                             | <b>fine</b> 367:1,11,20    | forecasts 295:24          | 338:9 340:25                          |
| 364:15,18,19          | <b>factor</b> 313:20,21               | <b>fire</b> 302:19         | 296:24 305:16             | 341:8 342:15                          |
| exhibits 293:7        | 314:8,23 315:13                       | <b>firm</b> 344:4          | 307:2                     | 345:3,9,14,22,25                      |
| 300:23 310:11         | 315:15,16 351:5                       | <b>first</b> 292:20 300:12 | foregoing 370:8           | 346:7,11,15                           |
| 311:7 327:19          | 351:14,17,17                          | 309:21 311:11              | forget 367:3              | 347:12,18 351:8                       |
| 335:21 344:6          | 354:5 360:13,17                       | 316:19 327:4               | <b>forma</b> 299:18       | 352:9 354:10                          |
| existing 340:6        | 360:21,25 361:23                      | 328:8 331:15               | <b>formula</b> 313:14     | 359:13 361:2,16                       |
| expect 326:1 366:1    | 362:3,18                              | 335:10 340:1               | formulas 314:22           | gas-integrated                        |
| expecting 298:15      | <b>factors</b> 315:11                 | 343:17 361:11,18           | forth 338:1 339:4         | 338:7                                 |
| expects 295:9         | <b>fair</b> 318:21 345:17             | 362:1                      | 340:19                    | <b>gate</b> 315:8 319:22<br>325:4     |
| expenditures          | 346:10,13,13,16                       | firsthand 359:7            | forward 327:2             |                                       |
| 338:18 342:23         | 347:22 365:16<br><b>fairly</b> 341:17 | five 342:2 367:24          | <b>found</b> 301:14 319:9 | <b>general</b> 287:17<br>308:4 328:24 |
| <b>expense</b> 298:20 | <b>familiar</b> 316:24                | 368:5,7,21                 | 345:25                    | 333:5 340:13                          |
| 299:1,9               | 319:25 345:24                         | fives 339:2                | four 314:3,4              | 341:14,16 345:10                      |
| expenses 286:15       | 517.25 545.24                         | <b>fleet</b> 304:16        | fraction 324:25           | 341.14,10 343.10                      |
|                       |                                       |                            |                           | I                                     |

| Page 377 |
|----------|
|----------|

| r                         |                            |                      |                        | Page 377               |
|---------------------------|----------------------------|----------------------|------------------------|------------------------|
| 345:11 349:16             | 343:23 344:12,13           | hear 309:9 328:3     | 309:23 310:14          | 294:1 312:20           |
| 353:12                    | 365:25 366:9,12            | 349:20,24            | 325:10,16 326:14       | 322:2 350:17           |
| <b>General's</b> 287:22   | ,                          | heard 297:8 338:25   | 326:17,25 327:6        | including 299:9        |
|                           | 366:15,19,22<br>368:25     | 339:5                | 335:2,4,9,12           | incorrect 321:11,12    |
| <b>generally</b> 330:1    |                            |                      |                        | ,                      |
| 333:12 334:1              | <b>Gorman</b> 309:4,5,10   | hearing 286:17       | 343:1,6,13,19          | <b>increase</b> 301:7  |
| 338:7 350:15              | 363:14                     | 292:13 297:6         | 344:8 363:7,9,13       | 328:11,19 360:5,7      |
| 354:20                    | gray 324:8 325:21          | 357:3 364:3,9,12     | 363:17 364:4,16        | increased 301:5        |
| generation 302:20         | <b>GRC</b> 294:5 295:6     | 368:20,23 369:6      | 365:9,21,25 366:4      | 328:9                  |
| getting 332:16            | 305:17 306:11,13           | 370:9                | 366:8,12,15,19,22      | increases 301:12       |
| <b>give</b> 294:21 297:10 | 307:3,12,13 308:5          | heat 339:15          | 366:25 367:3,13        | 328:16                 |
| 304:1 305:1               | great 306:2 330:3          | <b>held</b> 337:8,11 | 368:1,18               | independent 325:3      |
| 316:23 338:5,22           | 334:23 339:12              | Hello 309:18         | Huizi 297:8            | index 290:1 291:1      |
| 368:18                    | 344:5                      | help 350:1,4         | <b>Huizi's</b> 297:9   | 333:23,24 334:21       |
| <b>given</b> 306:18       | greater 303:24             | helpful 296:1 308:8  | hundred 314:4,5        | <b>indicate</b> 325:11 |
| 314:20                    | green 319:13 324:8         | helps 307:12         | hundreds 321:2         | 344:19                 |
| <b>go</b> 313:3 316:15    | <b>Greg</b> 309:11         | 349:24               | hydro 303:21,23        | indicated 293:24       |
| 338:18 339:3              | 363:14                     | hereunto 370:11      | 304:4 308:19,20        | indicates 298:18       |
| 341:1 343:11              | <b>gross</b> 360:7         | Higgins 291:3        | 308:24 328:25          | indicating 311:18      |
| 344:15 352:7              | <b>group</b> 325:3         | 343:2,15,17,23,25    | 329:19 332:1,20        | indication 299:15      |
| 353:9 356:10,12           | growing 342:21             | 344:7,12             | 333:8 334:2,13         | individual 312:25      |
| 359:19 369:2              | growth 360:25              | Higgins' 344:5       | hydrocarbon 332:4      | 317:15 318:9           |
| goals 340:4,17            | guess 294:11               | high 361:20          | hypothetical 355:9     | 354:11                 |
| goes 322:10 361:3         | 306:23 345:19              | higher 294:3         |                        | industrial 350:21      |
| going 300:8 302:3         | 367:10                     | 351:20               |                        | <b>industry</b> 330:20 |
| 303:3 307:9,10,11         |                            | historical 352:25    | idea 325:24 347:9      | <b>infer</b> 347:20    |
| 307:15 308:3,3            | H                          | 363:2                | 347:15,23              | information 298:22     |
| 315:2 316:16              | <b>H</b> 314:3,7,13        | historically 347:24  | identified 294:19      | 302:2                  |
| 322:22,23 324:9           | <b>H-i-g-g-i-n-s</b> 344:1 | 351:2                | 298:9,13 299:2         | informational          |
| 324:10 325:22             | Haines 308:13              | hitting 314:25       | identify 293:17        | 296:16                 |
| 332:18 334:3              | half 303:8,8,9             | holiday 364:5        | identifying 296:23     | informed 367:23        |
| 338:15 344:21             | 322:24,24 323:2            | Honor 309:17         | <b>II</b> 287:6 292:11 | <b>initial</b> 344:1   |
| 349:15 351:18             | 323:18                     | 325:14 335:3         | <b>III</b> 286:18      | initiatives 367:8      |
| 356:12 357:8              | hand 292:19                | 343:3 363:8          | <b>impact</b> 323:19   | insert 294:11          |
| 358:4 363:13              | 300:11 309:20              | 366:14,16,20,23      | 349:14 360:11,12       | integrated 341:25      |
| 364:24 367:7              | 327:3 335:9                | hope 359:10          | 361:3,6 364:24         | integrative 336:20     |
| 368:11                    | 343:16 370:11              | hoping 357:1         | impacts 367:9,25       | interconnection        |
| GOLDMAN                   | Hang 325:18                | hourly 333:23,23     | implementation         | 320:20                 |
| 288:23                    | happen 305:12              | 334:21               | 297:14                 | interests 359:3        |
| good 292:4 293:3          | 306:15 307:1,2,4           | House 336:11,14      | implementations        | interpretation         |
| 293:14,16 299:15          | happens 296:19             | 336:16               | 339:11                 | 341:14                 |
| 300:14 303:15             | 306:9 307:1                | housing 340:10       | important 360:3        | interrupt 333:20       |
| 307:8 308:23              | hard 341:19                | huge 328:23          | inaccurately           | interrupted 332:8      |
| 309:23 310:3,19           | Hasselman 288:3            | Hughes 287:7         | 295:14                 | intersection 320:19    |
| 310:20 327:6              | 290:21 335:15,20           | 292:4,7,22 293:10    | include 305:19         | 322:20 323:4           |
| 331:14 335:4,7,8          | 365:23                     | 300:1,4,6,8,11,14    | 344:23                 | interstate 354:12      |
| 335:12 336:3,4            | Hayes 288:24               | 309:2,4,8,14,19      | included 293:21        | intervenors 306:21     |
| , í                       |                            | ,                    |                        |                        |
| L                         | •                          | •                    | •                      | -                      |

| Pag | е | 37 | 8 |
|-----|---|----|---|
|     |   |    |   |

|                           |                           |                        |                            | 1 490 010                |
|---------------------------|---------------------------|------------------------|----------------------------|--------------------------|
| 307:7,20                  | <b>Joint</b> 288:2 338:23 | 336:19 341:13          | lack 333:14                | 366:3 367:19             |
| introduce 292:22          | 365:22                    | 342:6                  | Lance 290:12               | limited 365:15           |
| 300:14 327:6              | judge 292:4,8,11          | <b>King</b> 340:9      | 309:15,18,21               | line 309:16 324:8        |
| 335:12 343:19             | 292:22 293:10             | know 295:18,19         | 310:6                      | 331:9 356:12,13          |
| <b>investment</b> 337:14  | 300:1,4,6,8,11,14         | 298:17 304:14,16       | Landers 336:10             | 357:13,18 366:5          |
| investments 336:8         | 309:2,4,8,14,19           | 304:20 305:2,10        | 338:25 339:5               | lines 314:13 315:3       |
| 337:6,11 338:2            | 309:23 310:14             | 305:11,11,12,22        | language 353:25            | 319:13 325:21            |
| <b>involving</b> 346:17   | 325:10,16 326:14          | 307:20 308:1,3         | large 323:13 328:19        | 344:15,16 353:11         |
| <b>issue</b> 294:12,13,18 | 326:17,25 327:6           | 316:14,16 323:11       | 345:2,6,7 346:19           | 358:6,12                 |
| 294:25 295:3,5,15         | 335:2,4,9,12              | 325:4,5,22,24          | 347:2,3,9,15,15            | <b>LIOTTA</b> 288:11     |
| 296:6,17,18,19            | 343:1,6,13,19             | 326:4 328:19,21        | 350:21 351:13              | 366:16                   |
| 297:4,11 299:4            | 344:8 363:7,9,13          | 328:22,23 329:2,4      | 352:16,22 359:20           | liquidated 329:17        |
| 326:23 329:4              | 363:17 364:4,16           | 329:5,6,7,9,10,11      | 360:1,18 361:7,12          | 332:10,21 333:13         |
| 331:1,7 332:22            | 365:9,21,25 366:4         | 329:12,12,13,15        | 361:24 362:2,18            | 333:18,21 334:8          |
| 346:10 350:3              | 366:8,12,15,19,22         | 329:12,12,13,13        | 362:20,25 365:5            | LISA 287:16              |
| 352:2                     | 366:25 367:3,13           | 330:19,19,20,21        | largely 295:1              | list 302:11              |
| <b>issues</b> 297:9 307:6 | 368:1,18                  | 330:25 331:6,6         | larger 346:17 362:8        | little 294:11 301:23     |
| 307:13,25,25              | JUDGES 287:5              | 332:2,3,4,4,6,8,11     | lateral 319:22             | 322:18 338:22            |
| 331:4 346:21              | judgment 308:23           | 332:13,14,18,19        | Latimer 289:21             | 339:23 349:21            |
| 364:21 365:6,15           | 308:24                    | 332:24,25 333:1,2      | LAURA 289:4                | 363:18                   |
| item 296:13               | justification 303:3       | 333:3,4,7,8,9,10       | law 287:5 292:7,11         | <b>LLP</b> 287:11 288:23 |
| items 299:10              | justify 302:25            | 333:17,20,22,23        | <b>LD</b> 317:19           | <b>LNG</b> 338:14        |
| 363:21                    | justifying 329:2          | 333:25 334:1,2,3       | LD 317.19<br>LDK-10X 311:5 | load 351:5,14,17,17      |
| 505.21                    | <b>JUSTINA</b> 289:20     | 334:4,4,7,9,10,10      | 312:7 313:3                | 354:5 360:13,17          |
| J                         | JUSTINA 209.20            | 334:12,14,21           | <b>LDK-11CX</b> 315:24     | 360:21 361:23            |
| <b>J</b> 289:9            | K                         | 336:5,9 341:3,4,8      | 316:6 317:20               | 362:3,18                 |
| <b>James</b> 287:6        | K-a-u-f-m-a-n             | 341:24 342:4,7,8       | 319:1,9 324:4              | located 318:1            |
| 292:11                    | 310:6                     | 347:19 350:16          | <b>LDK-3C</b> 312:20       | location 320:8,13        |
| <b>JAN</b> 288:3          | <b>K-e-v-i-n</b> 343:25   | 351:18,20,20           | LDX-3C 312.20<br>LDX 311:8 | 320:18,24                |
| jcaviglia@parso           | <b>Kaufman</b> 290:12     | 352:19,25 354:19       | LDX-11CX 318:7             | locations 324:22         |
| 289:23                    | 309:15,18,21              | 359:5,7,9,9 360:9      | leads 303:11               | logic 355:17             |
| Jefferson 289:5           | 310:3,6,19,19,21          | 360:22,23 361:16       | leaving 349:5              | logically 303:23         |
| <b>JESSICA</b> 287:21     | 316:13                    | 361:24 362:6           | left 292:16 319:10         | long 308:6 329:13        |
| jessica.johanson          | Kaufman's 329:2           | 363:1 365:18           | 320:8,14 325:11            | 334:4 337:8              |
| 287:25                    | kboehm@bkllaw             | 367:14,23,25           | legal 338:5                | 342:16 363:23            |
| jhasselman@ear            | 289:12                    | <b>knowledge</b> 338:4 | length 317:22,23           | 366:17                   |
| 288:6                     | KCH-11X 357:2             | 370:10                 | 324:17 364:24              | longer 322:22            |
| <b>JIM</b> 288:7          | KCH-1T 344:14             | <b>known</b> 299:16,17 | 365:7                      | 332:14                   |
| jim.dennison@si           | 353:9 356:10              | <b>Kroger</b> 345:5    | let's 292:4 307:16         | look 296:12 301:13       |
| 288:8                     | keep 309:8 330:13         | <b>KURT</b> 289:9      | 309:8 313:2                | 311:22 312:6             |
| Johanson-Kubin            | Kensok's 299:12           | Kurtz 289:9            | 343:11,13 361:10           | 313:14 316:21            |
| 287:21 290:8              | <b>Kevin</b> 291:3 343:2  |                        | 368:18                     | 317:2 324:4              |
| 300:17,22 309:5           | 343:17,25                 | L                      | letter 317:7               | 349:24 358:6             |
| 309:12 326:19             | kilowatt 304:3            | L 286:25 370:6,16      | level 293:20 295:9         | looking 319:8            |
| 363:16 364:1,6,11         | kind 323:10 328:21        | <b>L-a-n-c-e</b> 310:6 | Liberty 289:21             | 322:17 323:7,16          |
| 366:6                     | 329:5,16 333:5            | Lacey 286:22 292:1     | limit 318:20 365:19        | 338:9,16,17 342:5        |
|                           | ,                         |                        | <b>mmt</b> 510.20 305.17   | 550.7,10,17 5+2.5        |
|                           |                           | I                      | I                          | I                        |

|                          |                          |                       |                           | Fage 379                   |
|--------------------------|--------------------------|-----------------------|---------------------------|----------------------------|
| 342:22                   | 222.1 16 17              | merits 329:13         | mistake 295:8,10          | <b>MW</b> 327:15           |
| <b>looks</b> 339:19      | 323:1,16,17<br>325:11    | meter 317:24          | 295:11,13,20,22           | IVI VV 527:15              |
| loses 307:17             |                          | metering 319:23       | <b>mistakes</b> 296:24    | N                          |
|                          | market 332:23            | 0                     |                           | N 287:1 288:1              |
| lot 329:6,6 333:7        | 333:6 340:4,12           | <b>method</b> 305:7   | misunderstanding          | 289:1                      |
| lots 365:6               | materially 321:15        | 330:9,22 348:6,13     | 318:17                    | name 292:7 293:4,5         |
| low 303:20               | 321:20 322:16            | 348:16,17,23          | <b>mixed</b> 334:9 357:21 | 293:5 300:18,19            |
| <b>low-income</b> 307:21 | materials 302:24         | 349:1,2 350:9,10      | <b>Mm-hm</b> 341:2,6      | · · · ·                    |
| lower 293:21             | <b>math</b> 350:24       | 350:11,12 360:22      | <b>model</b> 322:25 323:2 | 300:20 310:4               |
| 349:17,21 350:16         | <b>matter</b> 286:9      | 361:1,11,11,19,25     | 324:23 331:3              | 311:12,16 327:12           |
| 351:19,22 352:24         | 292:10 296:5             | 362:1                 | <b>modest</b> 340:4       | 335:17,18 343:24           |
| 362:4                    | 297:23 349:16            | methodologies         | modification              | 343:25                     |
| Lowry 289:9              | Mattheis 289:4           | 305:5,8 308:16        | 353:21                    | names 311:20               |
|                          | McGuire 290:3            | 330:7,10              | moment 364:10             | NASH 287:16                |
| M                        | 292:17,20 293:5          | methodology           | month 303:6               | nash.callaghan@            |
| <b>M</b> 288:11          | 293:15                   | 301:24 302:5          | morning 292:5             | 287:19                     |
| M-c-G-u-i-r-e            | McGuire's 293:7          | 305:10,11,23          | 293:3,15,16 310:3         | <b>natural</b> 345:9,14,22 |
| 293:6                    | <b>mean</b> 298:16       | 306:25 360:15         | 310:19,20 334:24          | 345:25 346:7,11            |
| M-u-l-l-i-n-s            | 308:19,20 315:13         | methods 330:14,17     | 335:7,8 336:3,4           | 347:11,18 352:9            |
| 327:13                   | 329:12,21 331:23         | 345:13 346:7          | 343:23 344:12,13          | Navy 288:11                |
| magnitude 360:3          | 341:10 347:21            | 361:15                | 366:9                     | <b>NE</b> 287:11           |
| main 312:3 314:12        | 356:3 361:15             | <b>Meyer</b> 289:8    | <b>Moser</b> 288:16       | near 303:19 324:9          |
| 321:18,19 323:9,9        | 365:12                   | 309:11 363:14         | 290:13,17 309:16          | nearest 315:8              |
| 323:10 324:17            | means 318:6              | 366:19                | 309:25 310:2,10           | necessarily 328:23         |
| 346:24 356:17,22         | 351:20 355:25            | <b>Michael</b> 309:4  | 325:14 327:8,10           | 341:18 342:6               |
| mains 312:5,8,11         | 360:25 362:16            | Microsoft 289:13      | 327:21 335:3              | 355:2 365:14               |
| 312:16,17,18,18          | meant 306:14             | 366:25 367:2          | 366:1                     | necessary 316:14           |
| 312:24 313:7             | 330:11                   | middle 343:25         | <b>move</b> 309:14        | 316:16                     |
| 321:8 326:1,2,3          | <b>measurable</b> 299:16 |                       |                           | <b>need</b> 304:15,16,17   |
| 345:14,22 346:7          |                          | Mihaly 288:23         | 329:16 360:8              | 305:2 337:2                |
| 346:11,19 347:4          | <b>measure</b> 360:19    | <b>Mike</b> 363:14    | moved 297:15              | 338:11,14,24               |
| 347:10,17,25             | measurement              | mile 322:24,25        | 298:19                    | 363:24 365:8,15            |
| , ,                      | 314:23                   | 323:2,18              | <b>movement</b> 334:14    | · · · · · ·                |
| 348:6,12,13,22,23        | mechanism 297:15         | mileage 312:8         | moving 309:4,9            | 366:24 367:22,25           |
| 350:17 353:22            | 298:20 306:12            | <b>miles</b> 313:6,10 | 327:2 332:17              | 368:4,24                   |
| 354:2,7,11,17,20         | medium 346:19            | 315:7                 | 334:7 348:19              | <b>needing</b> 296:25      |
| 354:25 359:13,20         | 362:15                   | million 293:21        | <b>Mueller</b> 301:4      | <b>needle</b> 342:16       |
| 359:22 360:10            | meet 299:17 304:7        | 294:4 314:3           | 305:1,3 328:9             | needs 329:11               |
| making 322:14            | 304:9                    | 339:20,20             | 330:4,5                   | 337:14 340:17              |
| 337:7 355:3              | meeting 296:5,9          | <b>Milt</b> 287:4     | Mullins 290:16            | negative 360:11            |
| Mall 339:12 340:20       | meets 299:2              | <b>mind</b> 300:7     | 327:2,4,11,13             | negligible 360:12          |
| 340:21                   | <b>memo</b> 296:16       | minimum 365:18        | 328:3 331:14              | neighborhood               |
| manage 338:15            | <b>memory</b> 353:7      | <b>minute</b> 316:23  | <b>multiple</b> 307:7     | 340:22                     |
| management               | mention 331:25           | minutes 328:6         | 320:16 326:10             | net 302:22                 |
| 297:22 299:5             | mentioned 321:25         | 343:5                 | 354:21,21,25              | Nevada 289:22              |
| 342:12                   | 323:21 333:9             | miscommunication      | 356:4                     | <b>never</b> 297:19 298:4  |
| <b>map</b> 315:9 318:16  | 334:18 357:25            | 326:20                | multiplying 306:19        | 300:7                      |
| 320:20 321:13,14         | 367:8                    | misspoke 307:3        | 313:13 314:8              | nevertheless 342:4         |
|                          |                          |                       |                           |                            |
|                          | 1                        | 1                     | 1                         | 1                          |

|                         |                        |                          |                      | 3                         |
|-------------------------|------------------------|--------------------------|----------------------|---------------------------|
| <b>new</b> 301:7 302:17 | observation 337:10     | 350:7 365:20             | 316:18,22 317:2,4    | parts 348:19              |
| 304:15 308:1            | <b>observe</b> 319:12  | 368:19                   | 317:15 365:2,12      | party 338:13              |
| 325:5,6 328:11          | observed 341:21        | opposed 348:16           | 365:17,19 366:2,7    | 358:20 367:4              |
| 338:11 340:8,10         | obviously 332:2        | 349:2 350:9,11           | 366:10,17,20,24      | path 321:9 322:18         |
| non-pipeline 336:7      | occurs 351:8,17        | optional 368:21          | 367:24 368:4,7,20    | 322:19,22,23              |
| 337:16                  | <b>Office</b> 287:22   | order 286:13             | paid 304:13,21       | 323:7                     |
| north 321:17            | <b>oh</b> 300:4 350:12 | 353:12,16 355:22         | paint 338:23         | paths 320:23              |
| 322:22 323:5            | 365:21                 | 358:17                   | paired 339:7         | 321:20 323:13             |
| 325:11                  | <b>Ohio</b> 289:11     | ordered 339:15           | 341:13,18 342:14     | pay 301:19 304:18         |
| northeast 322:19        | okay 294:9 300:7       | ordering 339:19          | <b>Palms</b> 288:12  | 332:9 333:21              |
| Northwest 318:2         | 304:23 306:2           | <b>Oregon</b> 288:19     | paper 311:4 312:4    | <b>PC</b> 288:17 289:4,15 |
| 319:21                  | 309:8,14 311:9,17      | 289:16                   | 313:2 324:11         | <b>PCA</b> 305:20,20      |
| note 298:25             | 311:19,23,24           | original 316:7           | papers 298:14        | <b>PCORE</b> 305:17       |
| noted 319:14            | 313:2,20 314:2         | 317:12,20 318:15         | 299:11,12,13         | 306:12 307:15,17          |
| <b>notice</b> 325:10    | 315:17,22 316:3        | 318:15                   | 311:4,25             | 308:1,4                   |
| November 286:24         | 317:10,11 318:21       | originally 319:5         | paragraph 353:18     | peak 315:15 338:15        |
| 292:1,5 364:4,14        | 318:25 324:2,6,15      | outcome 367:8            | 353:21               | 347:23 348:1,5,6          |
| 364:17 370:9,12         | 325:8 326:6,13,14      | outside 366:5            | parentheses 311:13   | 348:12,14,16,23           |
| NPAs 342:9,15           | 327:2,3 329:25         | over-allocating          | <b>Parson</b> 289:21 | 348:25 349:1,7,9          |
| Nucor 289:2 345:8       | 330:3 338:23           | 321:24                   | part 329:3 341:19    | 350:9 351:1,3,6           |
| 366:12                  | 343:6,15,23            | over-assignment          | 341:25 342:6         | 351:14,23,24,25           |
| Nucor's 358:23          | 344:19 347:22          | 322:8                    | 361:4,5              | 352:14,15 354:4           |
| number 298:2            | 349:11,14,15           | overall 350:22           | partially 302:11     | 360:14,15,22              |
| 307:23 311:11,16        | 350:5,11,13 351:1      | overestimate             | 347:25 348:1,6,7     | 361:1,10,17               |
| 313:9,12,16             | 353:18 356:12,14       | 323:22                   | 348:13,14,24,24      | 362:11,12,22              |
| 314:24 315:7            | 356:15 358:2,5         | overestimating           | participate 307:23   | peaks 342:17              |
| 319:12 348:1,14         | 363:4,13,17 364:4      | 321:24                   | 353:3 359:4          | <b>Pearl</b> 339:12       |
| 348:24 352:25           | 364:16 365:21          | overstated 302:23        | participated 345:4   | 340:20,21                 |
| 357:7,8 362:5           | 366:4,8 367:13         |                          | 353:1                | <b>PEPPLE</b> 289:14      |
| 364:19                  | 368:1,18,25            | P                        | participating 345:8  | percent 301:5,6           |
| numbers 294:22          | <b>OLSON</b> 288:17    | <b>P</b> 287:1,1 288:1,1 | particular 299:4     | 303:19 313:21             |
| 299:8,10,14             | <b>Olympia</b> 287:18  | 289:1,1                  | 301:11 302:7         | 321:22 322:5              |
| 313:18 316:25           | once 368:23            | page 290:2 291:2         | 328:14 349:15        | 323:22 328:10,10          |
| 317:1 321:15            | one-off 341:11         | 316:25 317:1,11          | 352:21 361:4         | 350:20 351:18,19          |
| 339:17 357:1,21         | ones 339:2             | 317:12,19 318:6          | particularly 307:21  | 360:5,7 362:5,8           |
| <b>NW</b> 289:5         | open 296:9             | 318:25 319:9,10          | 341:22 355:22        | percentage 350:22         |
|                         | operate 337:2          | 319:15,15,17             | 366:2                | perception 334:1          |
| 0                       | operations 337:18      | 320:8,9,13,14            | parties 298:15       | Perfect 353:11            |
| <b>O'NEILL</b> 287:22   | opinion 338:6          | 324:3,5 344:15           | 306:18 328:22        | 357:7,12                  |
| <b>O&amp;M</b> 297:20   | opportunities          | 353:9 356:10,13          | 330:17,23 345:13     | performed 331:6           |
| 298:20 299:1,9          | 298:2 340:11           | 357:7,8,10,16,17         | 346:6 347:1,6,24     | period 303:5              |
| <b>000-</b> 292:3       | 342:5,7,11,12,22       | 357:18,19,21,22          | 348:3 351:2,4        | 346:24 363:2              |
| <b>object</b> 307:11    | opportunity 296:8      | 357:23,25 358:2,5        | 365:2,7,10,13,14     | Perkins 287:11            |
| objections 368:19       | 296:15 301:10,11       | 358:12 365:19            | 365:17 366:4         | permitted 354:7           |
| objective 299:1         | 306:18 328:14,15       | 366:3                    | 367:18,24 368:3      | perspective 294:25        |
| obligation 341:23       | 329:24 330:23          | pages 286:19             | 368:22,25            | 296:18 322:7              |
|                         |                        |                          |                      |                           |
| L                       |                        |                          |                      |                           |

| <b></b>                    |                           |                            |                           | Faye Sol                            |
|----------------------------|---------------------------|----------------------------|---------------------------|-------------------------------------|
| 323:14 332:7               | 338:8                     | power 286:14               | probably 329:22,22        | <b>provide</b> 295:7                |
| 334:12 368:15              | plans 293:22              | 301:3,5,7,15,15            | 338:12 346:13,22          | 351:18 361:23                       |
| pertained 297:23           | 340:14                    | 305:4,7,15,16,19           | problem 302:18            | 362:3                               |
| 298:4,24                   | <b>plant</b> 293:18,20    | 305:24 306:12,24           | 326:24 367:16             | provided 294:10                     |
| <b>pertaining</b> 356:17   | 295:9 296:20              | 306:24 307:2,4,10          | <b>problematic</b> 305:25 | 299:13 312:24                       |
| petition 286:9             | <b>platform</b> 316:23    | 307:16 308:2,4             | 306:7 307:5               | 315:9 316:7                         |
| 325:5                      | plays 332:3               | 328:4,9,12,19              | <b>problems</b> 302:10    | 317:21                              |
| <b>Petitioner</b> 286:12   | please 292:19,22          | 330:7,9,14,18              | 302:13 337:5,6            | <b>providing</b> 340:13             |
| <b>PG&amp;E</b> 342:2      | 293:3 300:11,14           | 331:18,21,22               | <b>proceed</b> 310:15     | - 0                                 |
| <b>PGE</b> 318:16          | 300:18 309:19,23          | 332:10,23 333:20           | 316:17 344:9              | <b>provisional</b> 293:18 296:5     |
| <b>Phase</b> 340:1,2,3,3   | 310:4 311:6 312:6         | 334:18                     | 363:18                    | <b>provisions</b> 333:13            |
| <b>Phil</b> 308:13         | 316:14 317:19             | <b>Powerdex</b> 333:23     | proceeding 297:16         | provisions 355.15<br>prudence 305:7 |
|                            |                           |                            | 305:13 306:23             | 306:9                               |
| <b>phonetic</b> 357:20     | 318:25 324:3              | 334:18,20<br>DDA 208:12 14 |                           |                                     |
| <b>physical</b> 320:20,20  | 327:3,6,11 335:9          | <b>PPA</b> 308:13,14       | 321:17 327:17             | <b>prudency</b> 305:4,22            |
| <b>pick</b> 303:1          | 335:12,16 343:15          | <b>PPAs</b> 301:11,13,15   | 363:25 367:9              | 330:6,9<br><b>DSE</b> 202:22 205:14 |
| <b>picture</b> 329:5       | 343:19,24 344:8           | 305:4 328:15               | <b>proceedings</b> 306:19 | <b>PSE</b> 293:23 295:14            |
| <b>pieces</b> 336:16       | 344:16 347:13             | 330:7                      | 345:3                     | 297:9 301:4 305:1                   |
| <b>Pilianas</b> 357:20     | 348:18 353:8              | practical 354:3            | process 298:2 306:1       | 307:1 313:23                        |
| <b>pilot</b> 340:3,3       | 356:9 359:17              | <b>practices</b> 337:19    | 306:9 336:25              | 319:2,20 320:4                      |
| <b>pilots</b> 340:1        | plural 294:17             | preferable 307:9           | procurement 338:9         | 321:4,8 328:8,21                    |
| <b>pipe</b> 312:12 313:4,7 | <b>plus</b> 307:25 368:21 | <b>preference</b> 366:11   | professionalism           | 330:4,5 331:21                      |
| 313:24 314:2               | <b>PO</b> 287:17          | prefiled 310:10            | 369:1                     | 333:7 344:23                        |
| 315:4,6,7,10,20            | point 296:17 306:1        | 327:19 344:5               | program 331:17            | 365:10,11,12,17                     |
| 317:22,23 320:6            | 318:22 319:21             | prematurely 343:7          | 341:17                    | <b>PSE's</b> 297:15                 |
| 320:11 321:14,17           | 322:14 337:12             | prepare 309:23             | programs 340:14           | 308:13 318:22                       |
| 321:23 322:5,6,8           | 359:10                    | presentation               | 341:15                    | 324:16 368:15                       |
| 322:20,20,25               | <b>points</b> 311:1,2     | 341:25                     | <b>project</b> 288:21     | <b>public</b> 287:20                |
| 323:3,4,5,18,23            | <b>Pool</b> 331:18        | presented 351:2            | 293:19 339:10             | 301:10 305:6                        |
| 323:24 324:1,21            | portfolio 296:20,22       | presiding 292:9            | 366:8,10                  | 306:20 308:14                       |
| 339:7 356:3,17,22          | 296:25                    | Presumably 318:4           | projection 295:8,22       | 326:18 328:4                        |
| 358:9,14 359:22            | <b>portion</b> 319:8,14   | <b>pretty</b> 326:20       | <b>projects</b> 329:20    | 363:23,23,24                        |
| pipeline 318:3             | 321:9,13                  | 330:20 340:3               | <b>proof</b> 298:23 336:6 | 364:9,12 366:6                      |
| 319:21 336:8               | <b>Portland</b> 288:19    | 365:13                     | 337:22                    | <b>Puget</b> 286:7,11               |
| 337:10 338:10,12           | 289:16                    | previously 310:11          | <b>propane</b> 338:14     | 287:8 292:15                        |
| 342:11 354:13              | <b>position</b> 295:15    | 363:3                      | proposal 336:11,13        | 294:10 302:4                        |
| <b>pipes</b> 321:3 323:13  | 344:3                     | <b>price</b> 302:7         | 339:23 340:15             | 304:5 307:17                        |
| 323:14                     | possibility 296:23        | prices 302:5               | 359:12                    | 312:14,19,24                        |
| place 319:23 336:6         | possible 325:2            | primarily 336:23           | proposals 339:11          | 315:25 316:3,6                      |
| 361:11,18 362:1            | 326:7,8,10 352:9          | primary 299:1              | 351:2,11                  | 317:4,20 318:1,8                    |
| placed 295:9               | 352:11                    | principal 327:15           | <b>propose</b> 339:9      | 318:16,17 336:7                     |
| plan 296:6 336:18          | possibly 296:25           | 344:4                      | proposed 305:24           | 337:1 338:12                        |
| 336:20 339:15,16           | 323:12 329:8              | <b>principle</b> 355:21,23 | 324:23 336:6              | 339:9 340:5,10,17                   |
| 340:6                      | 338:14                    | 359:10                     | 346:7                     | 342:20 344:20                       |
| <b>planner</b> 297:14      | post-hearing              | prior 294:15 346:5         | proposing 360:4           | 345:4,10 346:21                     |
| <b>planning</b> 336:17,20  | 364:22                    | 352:3                      | protection 333:14         | 352:3 356:16                        |
| 336:23 337:3,18            | potentially 368:6         | <b>pro</b> 299:18          | protesting 341:7          | 362:14 367:11                       |
|                            |                           | l                          | l                         | l                                   |
|                            |                           |                            |                           |                                     |

|                               |                    |                            |                         | 1 ugo 002                 |
|-------------------------------|--------------------|----------------------------|-------------------------|---------------------------|
| pull 316:20 342:17            | raised 296:9       | 351:11                     | <b>refund</b> 295:12,16 | 299:17 324:25             |
| pulled 339:17                 | random 341:17      | received 363:24            | regard 325:21           | 350:22                    |
| pulling 338:10                | range 342:3 359:2  | receiving 317:16           | regarding 293:24        | representatives           |
| purchase 301:8                | rate 301:6,6 307:7 | 322:3                      | 314:19 346:18           | 369:1                     |
| 328:12                        | 310:22 312:5       | recess 343:8,9,12          | 351:3 363:25            | representing              |
| purchased 286:14              | 328:10,10 336:17   | recognize 311:24           | regulator 317:24        | 307:21 357:14             |
| purpose 295:3,7               | 338:1 344:23       | 358:24                     | 318:5,23 319:14         | 359:2                     |
| 361:12                        | 345:10 346:6       | recognizing 323:24         | 321:21 322:11,21        | represents 358:24         |
| pursuant 286:15               | 360:5              | recollection 345:11        | regulators 318:1,20     | request 293:25            |
| pursuing 331:22               | ratemaking 299:3   | 345:15,19 353:24           | regulatory 315:8        | 294:6,10 298:13           |
| pursuing 331.22<br>push 329:7 | 336:25             | recommend 359:21           | reimburse 332:12        | 311:14 312:15,20          |
| put 340:18                    | ratepayers 295:16  | recommendation             | reiterate 323:16        | 312:23 315:25             |
| <b>put</b> 540.10             | rates 297:16       | 358:22                     | reject 359:20           | 316:4,8 317:5             |
| Q                             | RCW 286:15         | recommended                | rejected 359:13         | 318:18,19 319:6           |
| qualified 338:5               | re-ask 347:14      | 325:7                      | rejecting 337:24        | 358:8,17,20,23            |
| question 304:24               | reach 345:13       | recommending               | related 293:19,19       | requested 318:11          |
| 308:12 320:10                 | 358:25             | 360:10                     | 297:25 299:9            | 356:16                    |
| 329:21 330:4                  | reached 358:25     | reconsider 359:11          | 307:13,25 345:14        | requesting 318:18         |
| 331:7,15 334:17               | 359:8              | record 292:4 293:4         | relatively 338:18       | 318:19                    |
| 347:14 348:18                 | read 353:16 368:10 | 293:8 298:18               | reliable 334:2          | requests 326:23           |
| 349:4,5,13 361:3              | ready 300:24       | 300:19 304:11              | relies 321:4            | 363:19 365:11             |
| 362:7                         | real 328:6 342:19  | 310:5,12 327:12            | rely 324:16 354:16      | required 338:3            |
| questioning 300:24            | realize 365:5      | 327:20 335:17,21           | remembering             | 358:22                    |
| 331:9                         | really 299:21      | 343:11,14,24               | 342:9                   | requirements              |
| questions 293:9,11            | 303:15,16 304:1    | 369:4                      | <b>Rendahl</b> 287:3    | 336:14 337:1              |
| 299:21,24 301:3               | 307:7 332:6        | recovering 336:8           | 290:6,10,19 296:3       | requires 336:17           |
| 312:2 316:11                  | 334:11 336:20      | recovery 298:19            | 290.0,10,19 290.3       | 340:18                    |
| 325:9,16 327:22               | 342:17 359:9       | 338:1                      | 308:7 317:6,9           | reserve 297:4,12,22       |
| 328:3,7 335:22                | 361:9              | red 322:18                 | 331:10,13 334:23        | 297:24 298:3,6,8          |
| 363:5,10 367:6                | reason 303:15,16   | redirect 300:3,5           | 364:8 367:10,14         | 298:8,15,24 299:5         |
| 368:22                        | 303:16,23 304:2    | 325:13,14 335:2            | 368:2                   | 298.8,15,24 299.5         |
| quickly 349:19                | 307:5 308:21,25    | 363:7                      | <b>Reno</b> 289:22      | reserves 297:22           |
| quite 330:11                  | 323:6 359:5        | <b>refer</b> 303:1 311:3,5 | reorient 336:24         | 299:5                     |
| 345:15 359:16                 | reasonable 321:1   | 311:9 313:2                | repair 342:11           | residential 325:4         |
| quote 294:2 353:11            | 322:24 323:1,7     | 317:19 329:1               | repairing 340:25        | 325:23 326:7              |
|                               | 337:24             | 356:25 357:7               | repealed 365:1          | 340:8 350:19              |
| R                             | reasonably 323:14  | reference 297:10           | repeat 320:10           | resolution 345:21         |
| <b>R</b> 287:1,21 288:1       | rebuttal 293:23    | 358:2                      | 348:18                  | resolved 294:19           |
| 289:1 319:14                  | 297:9,18,21,24     | referenced 294:7           | replace 336:19          | 295:1                     |
| 370:1                         | 301:4 328:8        | referred 347:11,17         | replicable 341:11       | <b>resource</b> 331:17,24 |
| <b>R-o-b-e-r-t</b> 300:20     | 336:10             | 358:8                      | reply 365:20            | 332:4,22 333:2            |
| <b>R599</b> 353:12            | recall 292:9 345:8 | referring 295:21           | <b>REPORTED</b>         | 334:2 336:20              |
| raise 292:19 296:19           | 345:20,23 351:23   | 316:25 333:17              | 286:25                  | 338:8,9                   |
| 300:11 309:19                 | recalling 364:10   | 349:9 357:13,22            | <b>reporter</b> 334:19  | resources 329:7           |
| 327:3 331:1,5                 | receive 321:4      | 359:16                     | 370:7                   | 332:1                     |
| 335:9 343:15                  | 349:17 350:16      | reflects 314:3             | represent 297:13        | respect 294:13            |
|                               | 577.17 550.10      | 1011003514.5               | represent 277.13        | 100pcci 274.15            |
|                               | I                  | I                          | 1                       | I                         |

|  |  |  |  | 1 ago 000                 |
|--|--|--|--|---------------------------|
| respond 365:12,13                                | 320:7,13 324:5                               | <b>S</b>                                     | 332:17 344:18                                  | <b>shorter</b> 365:24     |
| responded 293:23                                 | 325:17 326:13                                | <b>S</b> 287:1 288:1 289:1                   | 345:12 357:13,25                               | 366:2                     |
| 293:25   | 327:3 332:24                                 | safety 336:9                                 | seeing 292:18 329:6                            | <b>show</b> 312:7 317:4   |
| Respondent 286:8                                 | 335:6,9,23 336:25                            | <b>San</b> 288:13,24                         | 329:16 331:20                                  | 318:7 337:16,22           |
| responding 358:1                                 | 337:15 338:13,15                             | <b>satisfaction</b> 294:20                   | 333:6  | <b>shown</b> 314:8        |
| response 293:17                                  | 338:17 339:7,24                              | satisfied 294:9                              | seen 322:8 339:10                              | 318:12                    |
| 294:6 297:17                                     | 339:25 340:9,22                              | saying 295:16                                | 340:2 341:7                                    | shows 313:4,9             |
| 312:15,19,23                                     | 341:15,18,20,23                              | 304:7,8,10,20                                | selection 332:3                                | 317:11,12                 |
| 315:25 316:4,7,14                                | 342:3,10,16                                  | 305:18,21,22                                 | self-referential                               | <b>Shute</b> 288:23       |
| 317:5 318:11,14                                  | 343:16 347:7                                 | 330:12,16 337:20                             | 302:12   | side 318:17 319:10        |
| 331:15 336:5                                     | 349:10 352:7                                 | 337:21                                       | send 358:3                                     | 319:17 320:7,8,13         |
| 356:21 367:11                                    | 357:6,16 367:5                               | says 308:13                                  | sense 295:18,20                                | 320:14 324:5              |
| responses 297:20                                 | right-hand 357:9                             | scale 315:9 340:16                           | 319:22 330:21                                  | 338:9 342:12              |
| 298:14 316:12                                    | 357:19                                       | scaled 339:23                                | 368:14,16                                      | 345:5 350:3,3             |
| responsive 294:12                                | <b>risk</b> 342:18,20                        | scarson@perkins                              | sensitive 352:19,20                            | <b>Sierra</b> 288:8       |
| 294:18 295:4                                     | <b>risks</b> 336:21                          | 287:13                                       | 352:23 362:24                                  | <b>signed</b> 301:8 312:4 |
| restaurants 341:5                                | <b>RITA</b> 288:11                           | schedule 312:8                               | 363:1  | 328:12                    |
| result 329:15                                    | rita.m.liotta.civ                            | 313:6,22 317:16                              | separate 294:14                                | significant 293:18        |
| 345:21 360:6                                     | 288:14                                       | 325:1,3,6 329:17                             | 331:7  | 368:6                     |
| resulted 346:5                                   | <b>Robert</b> 290:7 300:8                    | 331:18,20 332:8                              | <b>serious</b> 326:20                          | similar 328:7             |
| 353:4  | 300:12,20                                    | 332:18 333:16                                | seriously 367:19                               | 362:17                    |
| results 352:24                                   | ROBINSON                                     | Schedule-C-type                              | serve 312:8 318:8                              | <b>simpler</b> 298:11     |
| revealing 302:2                                  | 287:22                                       | 329:10 332:5                                 | 341:23 352:13,20                               | simply 302:22             |
| revenues 302:19                                  | roll 340:5                                   | scheduled 336:19                             | 354:20,25                                      | 303:1 307:3,6             |
| 331:1,2  | <b>room</b> 366:5                            | Schedules 310:22                             | served 320:22                                  | 359:9 360:24              |
| reverse 360:5                                    | roughly 303:9                                | 312:5 314:12                                 | 322:1 323:25                                   | simultaneously            |
| review 293:21                                    | round 364:22                                 | 315:18 360:6                                 | 324:15   | 355:12                    |
| 294:15 297:20                                    | routes 320:16                                | scheduling 326:24                            | serves 354:12                                  | <b>Sinclair</b> 301:18    |
| 298:25 301:11                                    | 323:12                                       | schematic 317:12                             | service 295:9                                  | 302:9,25 303:10           |
| 305:15,20,22,24                                  | routine 342:6                                | 317:13,20 318:6                              | 310:22 311:1,2                                 | 303:13,18 304:2           |
| 306:9,19,22 307:8                                | row 313:3,4,21                               | 319:3  | 317:16 345:25                                  | 308:13,20,25              |
| 307:16 328:15                                    | 314:2<br>Barra 214:21-21                     | schematics 312:24                            | 346:15 353:2,13                                | single 354:2              |
| 329:23,25 330:9                                  | <b>Rows</b> 314:21,21                        | 315:2 316:7,8                                | 356:16   | <b>single-page</b> 311:20 |
| <b>reviewed</b> 294:6                            | <b>RPR</b> 286:25 370:16                     | screen 292:18                                | <b>serving</b> 312:24<br><b>session</b> 316:15 | sir 293:14                |
| 328:17,18  | <b>rule</b> 354:8 357:2                      | 349:23 357:6                                 | set 339:4 359:12                               | sit 349:22<br>site 322:11 |
| <b>reviewing</b> 306:24<br><b>reviews</b> 296:20 | <b>rulemaking</b> 342:1<br>346:5 352:4 353:2 | scrutiny 337:11                              | 370:11   | situation 341:11          |
| 297:1 305:4 307:4                                | 353:4,13 356:17                              | SE 288:18 289:15                             | <b>SETH</b> 288:23                             | Sixty 367:1               |
| 330:6  | 357:3 358:25                                 | seal 370:12                                  | sets 316:18,21,21                              | size 312:8 315:19         |
| revised 316:4,8                                  | <b>rules</b> 299:18 345:24                   | <b>Seattle</b> 287:24                        | Seventh 289:10                                 | 351:11 358:14             |
| 317:12 322:17                                    | 346:3 353:13                                 | 288:5  | share 323:24                                   | 359:22                    |
| right 292:19 293:14                              | 356:21 358:20                                | second 316:20                                | <b>SHEREE</b> 287:9                            | sized 346:19 347:17       |
| 295:25 297:3                                     | running 324:21                               | section 321:7,16                             | shielded 355:12                                | sizes 314:12 320:7        |
| 300:6,11 303:5                                   | 338:11                                       | 322:1 339:13                                 | shift 334:6 360:24                             | 320:12                    |
| 305:9 309:1,20                                   | <b>runs</b> 303:20                           | <b>see</b> 309:5 313:20<br>316:9 319:2,14,17 | <b>short</b> 324:7,7,16,17                     | sjm@dvclaw.com            |
| 311:10 319:17                                    |  | 323:10 324:7,14                              | 343:4  | 288:20                    |
|  |  | 525.10 524.7,14                              |  |                           |
| L  | •  | •  |  | •                         |

|                       | I                         | I                      | I                      |                           |
|-----------------------|---------------------------|------------------------|------------------------|---------------------------|
| skeletonization       | south 322:21,23           | stated 315:1 330:1     | 366:7                  | table 302:8 303:1         |
| 347:11,18,20          | 324:9,11 325:22           | states 301:4 305:3     | sufficiently 340:5     | 354:1                     |
| skill 370:10          | speaker 357:14            | 330:5 354:1            | 349:20                 | <b>TAD</b> 287:22         |
| slice 329:19 332:19   | 367:1                     | 358:13                 | suggest 301:25         | take 295:11 301:13        |
| slightly 314:21       | speaking 303:9            | station 315:8,8        | 326:22                 | 302:18 320:17             |
| 322:22 341:3          | 350:15 354:20             | 318:12 319:18,20       | Suite 287:12,23        | 343:4 361:10              |
| small 323:19          | specific 298:12           | 319:22,24 320:3,4      | 288:5,12,18            | <b>TAKEN</b> 286:24       |
| 324:25 338:18         | 320:25 359:9              | 320:7,12,17,23         | 289:10,16,22           | takes 319:23              |
| 339:25 346:19         | specifically 293:20       | 321:21 322:13,15       | summarized             | talk 326:25 347:22        |
| 347:3,16 348:15       | 295:5 298:7               | 322:21 323:23          | 356:20                 | 350:7                     |
| 348:25 352:16         | specified 331:22          | 324:4,9,17,22          | summed 314:13          | talked 362:17             |
| 359:20 360:2,12       | 332:23                    | stations 318:19,20     | 315:19                 | talking 331:16            |
| 360:19 361:8          | <b>spell</b> 293:3 300:18 | 325:5                  | <b>supplies</b> 342:15 | 339:6 342:1,8             |
| 362:15,21             | 310:4 327:11              | Staying 314:2          | supply 338:10          | 368:8                     |
| smaller 315:2         | 335:16 343:24             | steel 289:2 312:12     | <b>suppose</b> 355:14  | targeted 339:6,10         |
| 324:24 326:1,2,8      | <b>spelled</b> 293:6      | 313:4,7,7,24           | supposed 298:16        | 341:13 342:10             |
| 339:8 345:6           | 327:13                    | <b>STEELE</b> 287:10   | sure 296:13 297:5      | targeting 340:6,8         |
| 346:17 347:10         | <b>spend</b> 294:3 339:19 | <b>step</b> 361:10     | 302:1,1 308:18         | targets 342:19            |
| 349:7,16 350:8,15     | <b>split</b> 307:6        | <b>Sticking</b> 339:14 | 317:3 318:13           | <b>TB</b> 319:18          |
| 350:22                | splits 323:11             | stipulation 344:6      | 320:11 330:11          | tcp@dvclaw.com            |
| smoothly 369:2        | spreadsheet 311:20        | Stokes 357:14          | 338:5 347:14           | 289:18                    |
| <b>sole</b> 362:14    | <b>spur</b> 354:12,15     | 358:1,8,13             | 350:2,6 357:16         | <b>teal</b> 319:12        |
| someplace 358:4       | <b>spurs</b> 324:7,8,16   | <b>Stone</b> 289:4     | 359:16,18 362:1        | <b>tech</b> 303:20 350:3  |
| somewhat 298:1        | staff 287:15 296:17       | <b>stop</b> 323:3      | <b>surprise</b> 298:1  | <b>teed</b> 294:13        |
| <b>SOMMER</b> 288:16  | 310:14 337:4              | Strategies 344:4       | 328:24                 | <b>ten</b> 365:12         |
| sorry 294:21 308:6    | 344:8 365:3               | Street 287:11          | surprised 341:3        | <b>tends</b> 339:8 352:16 |
| 309:13 314:4          | 368:16                    | 288:18,24 289:5        | switching 332:15       | 352:18                    |
| 318:13,16 321:19      | staff's 293:25            | 289:10,15,21           | <b>sworn</b> 292:20    | <b>tens</b> 339:16,21     |
| 343:7 348:10          | 294:19,25 296:18          | 339:12 340:20,21       | 300:12 309:21          | term 295:17 347:20        |
| sort 302:12 330:21    | 356:21                    | stretches 320:6,11     | 327:4 335:10           | <b>terms</b> 303:24 306:8 |
| 332:15 334:9          | standard 299:3            | strict 296:25          | 343:17                 | 362:17 368:3              |
| 340:22 360:24         | 336:21 337:25             | stripped 296:21        | system 318:2,8,22      | territory 346:21          |
| <b>Sound</b> 286:7,11 | 360:21 361:1,5,6          | <b>strong</b> 365:9    | 319:2 320:4 321:5      | test 352:15 362:12        |
| 287:8 292:15          | 365:4                     | strongly 365:7         | 324:16 336:17          | 362:22 363:2              |
| 302:4 304:5           | standards 299:3           | structured 333:18      | 338:17,19 340:25       | testified 292:21          |
| 307:17 312:14,19      | <b>STARKEY</b> 287:10     | <b>study</b> 349:15    | 342:1 347:12,18        | 293:20 299:6              |
| 312:24 315:25         | start 339:24 365:10       | 356:17                 | 351:5,14,16,17         | 300:13 309:22             |
| 316:3,7 317:4,21      | 368:13                    | <b>stuff</b> 343:10    | 352:10,12,19           | 327:5 335:11              |
| 318:2,8,16 340:10     | started 314:25            | submitted 318:11       | 354:4,17 360:13        | 343:18 344:20             |
| 344:20 345:4,10       | starting 322:18           | 318:16                 | 360:17,21 361:16       | 356:20                    |
| 346:21 356:16         | 332:17 365:2              | substantial 361:12     | 361:23 362:3,18        | testifies 297:12          |
| 362:14 367:11         | state 293:3 300:18        | 361:19 362:2           | system-wide            | <b>testify</b> 297:8      |
| Sound's 318:17        | 310:4 327:11              | succeeded 302:13       | 313:23                 | testimony 293:8,17        |
| sounds 349:21         | 335:16 337:1              | success 339:1          | T                      | 293:24 294:12,18          |
| source 331:2          | 338:8 343:24              | successful 303:11      | <b>T</b> 370:1,1       | 295:4 297:10,17           |
| 332:23                | 370:3,7                   | sufficient 365:5,8     | 1 3/0.1,1              | 297:21 300:22             |
|                       | I                         | I                      | I                      | I                         |

|                                    |                            |                                  |                                   | 1 uge 666                   |
|------------------------------------|----------------------------|----------------------------------|-----------------------------------|-----------------------------|
| 301:8,19 302:10                    | 361:21 362:6               | traditional 329:17               | U                                 | 343:5 352:23                |
| 310:11 327:19                      | 364:19 365:4,6,8           | traditionally 364:2              |                                   | 355:5,24 356:22             |
| 328:12 329:2                       | 365:16,16,18               | transactions                     | <b>UE-230810</b> 286:10           | 360:13 361:17               |
| 335:20 336:5                       | 366:16 367:11              | 334:22                           | <b>UE-240004</b> 286:5            | 362:10                      |
| 344:6,14 353:8,19                  | 368:5,14                   | transcript 357:2,23              | 292:13<br><b>UE-240779</b> 294:17 | <b>user</b> 351:21          |
| 356:9                              | thinking 337:6             | 370:8                            | 294:23                            | users 326:10 347:2          |
| thank 292:22                       | 368:9                      | transfer 319:21                  | UG-240005 286:6                   | 352:16,17,22                |
| 293:10,14 294:24                   | <b>third</b> 288:4 319:10  | transformation                   | 292:13                            | 361:7,8,13,20,24            |
| 295:25 297:2                       | 338:13                     | 340:13                           | UG-240780 294:17                  | 362:2,20,21,25              |
| 299:19,22,25                       | <b>Thomas</b> 289:5        | transmission                     | 294:23                            | <b>uses</b> 302:17          |
| 300:1,10 304:23                    | thought 353:1              | 338:12                           | unable 299:8                      | usually 333:22              |
| 306:2,17,17 308:9                  | thoughts 368:3             | transparency                     | uncertain 336:22                  | 352:24                      |
| 309:1,2,3,8,25                     | thousand 314:4,5           | 310:24                           | unconvinced                       | utilities 286:2,3           |
| 310:10,14,16                       | thousands 321:2            | Transportation                   | 298:17                            | 292:8,14 333:7              |
| 317:9 324:2 325:8                  | 338:17 339:16,21           | 286:2,4 292:8,14                 | <b>uncovered</b> 295:10           | 342:15                      |
| 325:10,15,17                       | throughput 348:7           | travel 323:12                    | understand 296:4                  | utility 342:19              |
| 326:13,14,16                       | 351:22 354:4               | traveled 322:21                  | 297:11 305:6                      | 354:17                      |
| 327:1,23 334:16                    | throwing 349:3             | tread 302:3                      | 330:8 358:19                      | utility's 350:20            |
| 334:23 335:1,2,3                   | Thursday 296:6             | treatment 286:14                 | understanding                     | <b>utilize</b> 313:6        |
| 335:23 342:24                      | <b>THURSTON</b> 370:4      | <b>true</b> 346:14 370:9         | 296:11 305:21                     | utilizing 321:3             |
| 343:1,5,19 344:8                   | time 292:5 302:9           | <b>try</b> 309:6                 | 307:2 318:10                      |                             |
| 350:2,3 363:4,6,9                  | 303:5,20 329:13            | trying 302:1                     | 320:2 340:21                      |                             |
| 363:11,12 366:11                   | 340:6 342:16               | Tuesday 292:5                    | 346:22 349:12                     | <b>v</b> 286:6              |
| 366:14,18,20,23                    | 346:23                     | <b>turn</b> 311:6 315:22         | 353:3 358:16,19                   | <b>valuable</b> 333:1,2     |
| 367:2 368:25                       | <b>timing</b> 294:2        | 316:19 318:25                    | understood 306:10                 | valuation 304:22            |
| 369:3,4                            | today 299:22               | 324:3 344:14                     | 318:13                            | <b>value</b> 302:8,18,22    |
| <b>Thanks</b> 330:3                | 326:21 364:24              | 353:8 356:9 357:9                | Unfortunately                     | 302:25 303:8,9,23           |
| 342:24                             | 368:24                     | 358:5                            | 326:19 349:23                     | 304:3 308:15,17             |
| theoretically 334:3                | top 357:8,9                | turning 297:4                    | UNIDENTIFIED                      | <b>values</b> 303:2         |
| thing 308:19 356:2                 | total 313:23 314:11        | <b>twelve</b> 314:5              | 367:1                             | Van 288:17 289:15           |
| things 303:18 309:9                | 315:20 321:18              | <b>twice</b> 303:13 304:3        | unpersuaded 298:6                 | <b>variance</b> 293:18,24   |
| 346:23 351:21                      | totals 315:19              | 308:20,22                        | unspecified 331:21                | 294:2 295:1,17,19<br>295:23 |
| think 295:14                       | touch 309:7                | <b>two</b> 299:11 301:6          | 332:5,23                          | various 302:8               |
| 297:11 298:21                      | town 319:18,20             | 303:17 311:12                    | update 307:11                     | 312:8 323:11                |
| 302:1,3 306:16,19                  | 320:3,7,12,17,23           | 314:3 315:17                     | 327:1 330:18                      | 336:21 351:10               |
| 307:5,17,20 311:9<br>311:19 314:25 | 322:12,15 324:17<br>324:22 | 316:21,21 317:15                 | <b>updates</b> 330:13             | varying 320:6,12            |
| 316:15 328:18,21                   | <b>trace</b> 321:13        | 324:7,7,15 325:21<br>330:1 332:7 | 331:5,6                           | vehicle 304:15              |
| 328:24 329:5,6,8                   | 322:12                     | 341:15 351:11                    | <b>upper</b> 357:19               | version 318:15              |
| 329:21 330:12                      | traced 321:9,16            | 355:15                           | <b>upstream</b> 318:5,23          | versus 332:5,23             |
| 329.21 350.12<br>331:4,23,24       | 322:15                     | <b>TYLER</b> 289:14              | 319:23                            | 349:8 351:14                |
| 332:16,16 333:5                    | tracing 321:20             | type 319:23 326:5                | <b>urges</b> 358:13               | view 306:1 319:2            |
| 333:17 334:10,11                   | 323:3                      | 332:22                           | <b>usage</b> 352:5                | 362:9                       |
| 336:17 340:16                      | track 299:8                | <b>types</b> 303:17              | <b>use</b> 295:17 296:20          | <b>vision</b> 339:4         |
| 341:21 349:3,4                     | tracker 297:15             | 329:19                           | 302:16,22,22,25                   | visual 320:19               |
| 350:1 360:3                        | tracks 342:16              | <b>typically</b> 355:19          | 303:3 308:24                      | <b>volume</b> 286:18        |
|                                    |                            | -J F                             | 315:11 329:22                     |                             |
|                                    | 1                          | 1                                | 1                                 |                             |

| <b></b>              |                     |                            |   |                           |
|----------------------|---------------------|----------------------------|---|---------------------------|
| 324:24 345:2,7       | way 319:10 352:7    | 336:10 338:25              | yearly 305:20                                 | <b>1510</b> 289:10        |
| 347:2,3,9,15         | 355:20 360:10,21    | 339:5 343:20               | years 346:12                                  | <b>1589</b> 336:12,15,17  |
| 348:15,25 349:21     | 365:16              | 349:20,22 363:6            | 351:24  | 338:3,6                   |
| 350:2,8,15,21        | ways 315:17         | 363:12 370:11              | yesterday 292:16                              | <b>16</b> 315:10          |
| 351:13,20 352:16     | we'll 309:9 316:14  | witnesses 299:11           | 297:5 339:1                                   | <b>16-</b> 315:4          |
| 352:16,22 359:21     | 335:6 363:18        | 309:15 326:18              | <b>YOCHI</b> 288:22                           | 16-inch 312:12,17         |
| 360:1,2,18,20        | 365:24 366:24       | 369:1                      |   | <b>161</b> 288:12         |
| 361:7,8,13,20,24     | we're 292:12 303:2  | wonder 303:12              | Z   | <b>17</b> 356:12 357:13   |
| 362:2,18,20,21,25    | 328:24 329:6,16     | wondering 343:3            | <b>ZAKAI</b> 288:22                           | 357:18 358:5              |
| volumetric 361:13    | 332:15,16 333:6     | word 326:17                | 366:9   | <b>18</b> 358:12          |
| 361:22               | 356:12 358:4        | 347:13 350:13              | <b>zero</b> 332:4                             | <b>18.5</b> 301:5 328:10  |
|                      | 365:6 368:8         | words 303:20               |   | <b>19</b> 313:3,21 314:2  |
| W                    | we've 339:10 341:7  | 313:24 348:11              | 0   | 314:13,21 357:13          |
| <b>WAC</b> 346:1,6   | weather 352:19,20   | work 298:14                | <b>0.83</b> 313:21                            | 357:18 370:19             |
| 353:5 354:1          | 352:23 362:25       | 299:11,12,13               | 1   |                           |
| 358:18,24 359:13     | weatherization      | 311:3,4,24 312:4           | $\frac{1}{1288:12311:13}$                     | 2                         |
| 361:4                | 342:14              | 313:2 340:11               |   | <b>2</b> 319:12 321:4,10  |
| <b>wait</b> 309:9    | week 364:2          | 368:5                      | 328:10 340:1,3<br>360:7 364:19                | 321:16,24 322:5           |
| walk 312:3           | weigh 351:3,3       | working 330:22             |   | 322:19 323:23             |
| Walmart 289:19       | weighted 361:23     | 337:4                      | <b>1,000</b> 340:4                            | 328:11 340:2,3            |
| 366:22               | weighting 351:4,6   | works 313:18               | <b>1:00</b> 326:21 363:15                     | 344:15                    |
| want 295:21 297:10   | 351:13,15 360:14    | worried 366:3              | <b>1:30</b> 326:21<br><b>10:25</b> 343:12     | <b>20</b> 315:10 346:12   |
| 298:22 305:16,18     | 360:25              | worries 357:24             |   | 353:11 358:12             |
| 305:22 306:10,14     | Weinberger 288:23   | worth 342:9                | <b>10:30</b> 343:4                            | <b>20-inch</b> 312:12,17  |
| 308:12 311:4         | welcome 292:19      | <b>WRAP</b> 302:17,17      | <b>10:35</b> 343:9                            | 315:4                     |
| 312:3 316:18         | 299:23 300:9        | 329:8,15 331:16            | <b>10:41</b> 343:12,13                        | <b>200,000</b> 338:24     |
| 317:2 338:22         | 309:19 335:7        | 332:15 333:8,12            | <b>100</b> 303:19 321:22                      | <b>2000</b> 287:23        |
| 341:12 346:24        | went 346:3          | 334:7,15                   | 322:5 323:22<br><b>1025</b> 289:5             | <b>20007</b> 289:5        |
| 349:19 350:6         | weren't 341:7       | written 326:23             |   | <b>2001</b> 344:21        |
| 351:10 356:25        | West 289:21         | 363:18                     | <b>107</b> 288:18 289:15                      | <b>2007</b> 345:10        |
| 357:16 358:3         | Western 310:8       |                            | <b>10885</b> 287:11                           | <b>2008</b> 345:9,20      |
| 365:18 367:23        | 331:17,17 357:15    | X                          | <b>10X</b> 311:11                             | <b>202.342.0800</b> 289:6 |
| wanted 325:3         | WHEREOF             | <b>Xcel</b> 339:12         | <b>11:19</b> 369:6                            | <b>202.342.0807</b> 289:6 |
| wanting 341:8        | 370:11              | <b>Xcel's</b> 339:14       | <b>112</b> 339:20                             | <b>2020</b> 346:3         |
| 362:7                | wide 359:2          | Xenopoulos 289:3           | <b>12</b> 315:10 344:15                       | <b>2022</b> 294:5         |
| wants 307:1          | wider 319:2         | 289:4 366:13               | 344:17 353:11                                 | <b>2024</b> 286:24 292:1  |
| warrant 296:21       | willing 305:3 330:6 |                            | 356:13  | 364:23 370:9,12           |
| Washington 286:1     | witness 292:17,23   | <u>Y</u>                   | <b>12-</b> 315:4                              | <b>2025</b> 339:20,24     |
| 286:3,22 287:12      | 293:23 295:14       | yeah 294:23 299:24         | <b>12-inch</b> 312:12,17                      | 370:19                    |
| 287:18,22,24         | 297:8,9 299:13,23   | 311:19 331:23              | 321:18,18 323:4,9                             | <b>2026</b> 339:21        |
| 288:5,18 289:5,15    | 300:15 301:4        | 332:24 333:16              | <b>12th</b> 364:4,14,17<br>364:20             | <b>2030</b> 338:25        |
| 292:1,8,14 370:3     | 305:1 308:9,13      | 340:23 348:21              |   | <b>206.343.7340</b> 288:6 |
| 370:7                | 309:3,24 310:12     | 367:16                     | <b>132.6</b> 293:21<br><b>14</b> 310:21 311:1 | <b>20th</b> 370:12        |
| <b>wasn't</b> 295:17 | 326:16 327:7,21     | <b>year</b> 294:16 301:6,6 |   | <b>21</b> 314:21          |
| 300:6 328:23         | 328:4,8 329:1       | 307:16 328:10,11           | 357:10,17,18,19<br>357:23                     | <b>22</b> 314:21          |
| 350:2                | 330:5 335:1,13      | 352:15 362:12,22           | <b>15</b> 357:22 358:6                        | <b>24</b> 314:14,21       |
|                      |                     |                            | 15 337:22 338:0                               |                           |
| L                    |                     |                            |   |                           |

|                           |  |                           |  | : |
|---------------------------|--|---------------------------|--|---|
| <b>286</b> 286:19         | 287:13                                       | 368:8,20                  |  |   |
|                           |  | ,                         |  |   |
| <b>293</b> 290:4,5        | <b>430</b> 288:18 289:16                     | <b>75-page</b> 367:19     |  |   |
| <b>296</b> 290:6          | <b>45202</b> 289:11                          | <b>750</b> 289:22         |  |   |
| 3                         | <b>47</b> 294:1                              | 77 353:18                 |  |   |
| <b>300</b> 290:8          | <b>480-85</b> 346:1,6                        | 775.323.1601              |  |   |
| <b>301</b> 290:9          | 353:5<br><b>480-85-060</b> 354:1             | 289:23                    |  |   |
| <b>3041</b> 286:25 370:16 | 358:18,24 359:13                             | 8                         |  |   |
| <b>306</b> 290:10         | <b>4th</b> 287:11 364:23                     | <b>8</b> 316:19 317:3,11  |  |   |
| <b>308</b> 290:11         | <b>411</b> 207.11 304.23                     | 317:19 318:6              |  |   |
| <b>310</b> 290:13,14      | 5  | 319:9,15 344:15           |  |   |
| <b>325</b> 290:15         | <b>5</b> 286:24 292:1                        | 344:17                    |  |   |
| <b>327</b> 290:17 294:1,7 | 353:9 370:9                                  | 8-inch 312:11,16          |  |   |
| <b>328</b> 290:18         | <b>5,280</b> 313:13                          | 315:3,6 321:17,19         |  |   |
| <b>331</b> 290:19         | <b>50</b> 289:21 351:18                      | 322:1,20,25 323:4         |  |   |
| <b>335</b> 290:21         | 351:19 362:5,8                               | 323:9,10,18               |  |   |
| <b>336</b> 290:22         | <b>50/50</b> 351:6,15                        | <b>8.7</b> 301:6 328:10   |  |   |
| <b>338</b> 290:23         | 503.241.7242                                 | <b>80,000</b> 304:18      |  |   |
| <b>34</b> 316:20 317:3    | 288:19 289:17                                | <b>80.28.410</b> 286:15   |  |   |
| <b>343</b> 291:4          | 503.241.8160                                 | <b>800</b> 287:23         |  |   |
| <b>344</b> 291:5          | 289:17                                       | <b>810</b> 288:4          |  |   |
| <b>35</b> 316:20 317:3,12 | 513.421.2255                                 | <b>87</b> 310:22 312:5,8  |  |   |
| 318:25 319:15             | 289:11                                       | 313:6,22 314:12           |  |   |
| 324:3                     | 5th 287:23 292:5                             | 315:18 317:16             |  |   |
| <b>36</b> 289:10          |  | 322:9 360:6,11            |  |   |
| 360.753.6200              | 6  | <b>87T</b> 310:23 312:5,9 |  |   |
| 287:24                    | <b>6</b> 356:10                              | 313:6,22 314:13           |  |   |
| 360.915.4521              | <b>6-</b> 315:3,6                            | 315:19 317:16             |  |   |
| 287:18                    | 6-inch 312:11,16                             | 322:9 360:6,11            |  |   |
| <b>370</b> 286:19         | <b>60</b> 365:4,8,11 366:2                   | <b>89501</b> 289:22       |  |   |
| <b>396</b> 288:24         | 366:6,10,17,20,24                            |                           |  |   |
|                           | 367:18                                       | 9                         |  |   |
| 4                         | <b>60-page</b> 365:24                        | <b>9:02</b> 292:2,6       |  |   |
| <b>4</b> 354:1            | <b>60,000</b> 304:18                         | <b>90</b> 350:20          |  |   |
| <b>4-</b> 315:3,6         | <b>610</b> 288:5                             | <b>94102</b> 288:24       |  |   |
| <b>4-inch</b> 312:11,16   | <b>63</b> 312:15,20,23                       | <b>94130</b> 288:13       |  |   |
| 313:4,6,23 314:2          | 316:1,4 317:5                                | <b>97214</b> 288:19       |  |   |
| 321:17,19 322:1           | <b>66</b> 339:13                             | 289:16                    |  |   |
| 322:20 326:2,3            | <b>67</b> 360:5                              | <b>98004</b> 287:12       |  |   |
| <b>4.4</b> 313:6,10,13    | 7  | <b>98104</b> 287:24 288:5 |  |   |
| <b>40128</b> 287:17       | ·  | <b>98504</b> 287:18       |  |   |
| 415.552.7272              | <b>7</b> 316:19 317:3                        |                           |  |   |
| 288:25                    | 356:13 358:6<br>7 500 330:24                 |                           |  |   |
| 415.671.9187              | <b>7,500</b> 339:24                          |                           |  |   |
| 288:13                    | <b>700</b> 287:12<br><b>75</b> 339:20 365:18 |                           |  |   |
| 425.635.1422              | 367:11,12,17                                 |                           |  |   |
|                           | 507.11,12,17                                 |                           |  |   |
|                           |  |                           |  |   |