

**PECO ENERGY COMPANY
STATEMENT NO. 3**

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION
v.
PECO ENERGY COMPANY – ELECTRIC DIVISION

DOCKET NO. R-2018-3000164

DIRECT TESTIMONY

WITNESS: BENJAMIN S. YIN

SUBJECT: PRESENTING PECO'S OVERALL REVENUE
REQUIREMENT AND SUPPORTING CERTAIN
RATEMAKING ADJUSTMENTS

DATED: MARCH 29, 2018

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1 **DIRECT TESTIMONY**
2 **OF**
3 **BENJAMIN S. YIN**

4 **I. INTRODUCTION AND PURPOSE OF TESTIMONY**

5 **1. Q. Please state your full name and business address.**

6 A. My name is Benjamin S. Yin, and my business address is PECO Energy
7 Company, 2301 Market Street, Philadelphia, Pennsylvania 19103.

8 **2. Q. By whom are you employed and in what capacity?**

9 A. I am employed by PECO Energy Company (“PECO” or the “Company”) as
10 Manager of Revenue Policy. In that capacity, I am responsible for managing
11 certain regulatory filings, audits and specific segments of larger regulatory
12 proceedings, including evaluating, analyzing and supporting the Company’s
13 requests for changes in revenue related to its regulated electric distribution and
14 transmission businesses and its gas distribution business. I am also responsible
15 for providing expert testimony and coordinating the preparation of testimony by
16 other witnesses on behalf of the Company with respect to various regulatory
17 issues.

18 **3. Q. Please describe your educational background.**

19 A. I received a Bachelor of Economics degree in International Trading from South-
20 western University of Economics and Finance, Chengdu, China in 1995 and an
21 MBA, with dual concentrations in Finance and Management Information
22 Systems, from Drexel University in 2001.

1 **4. Q. Please describe your work experience in the energy industry.**

2 A. Upon graduation from Drexel in 2001, I was hired by PECO as a Senior Financial
3 Analyst in the Finance Department. Thereafter, I was promoted to Principal
4 Financial Analyst in 2007. I assumed my current position in 2009.

5 **5. Q. What is the purpose of your direct testimony in this proceeding?**

6 A. The principal purpose of my direct testimony is to explain the preparation and
7 presentation of data supporting PECO's request for a general base rate increase
8 for its electric distribution operations. More specifically, I explain how the
9 components of the Company's overall revenue requirement were developed. This
10 includes certain portions of the claimed measures of value and the pro forma
11 ratemaking adjustments that were made to calculate the Company's revenue
12 requirement based on data for a fully projected future test year ending December
13 31, 2019 ("FPFTY"), a future test year ending December 31, 2018 ("FTY") and
14 an historic test year ended December 31, 2017 ("HTY"). For purposes of
15 supporting PECO's proposed increase in base rate distribution operating revenue
16 under its proposed rates, the Company is relying principally upon data for the
17 FPFTY. In addition, I am sponsoring the Company's calculation of the revenue
18 requirement effect for 2018 of the changes in the federal income tax law made by
19 the Tax Cuts and Jobs Act ("TCJA").

20 **6. Q. Are you sponsoring all or portions of any exhibits in this proceeding?**

21 A. Yes. I am sponsoring PECO Exhibits BSY-1, BSY-2, BSY-3 and BSY-4.

1 PECO Exhibits BSY-1, BSY-2 and BSY-3 comprise PECO's principal
2 accounting exhibits for the FPFTY, the FTY and the HTY, respectively. As
3 explained by Mr. Phillip S. Barnett (PECO Statement No. 2), PECO's Chief
4 Financial Officer and Treasurer, the base data for the FPFTY that I used to
5 develop PECO Exhibit BSY-1 were derived, for the most part, from PECO's
6 capital and operating budgets for the twelve months ending December 31, 2019,
7 while the corresponding data for the FTY used to develop PECO Exhibit BSY-2
8 were derived from PECO's capital and operating budgets for the twelve months
9 ending December 31, 2018. The data for the HTY used to develop PECO Exhibit
10 BSY-3 are the data actually recorded in PECO's books of account for the twelve
11 months ended December 31, 2017.

12 PECO Exhibit BSY-4 shows the calculation of the effects of the TCJA on
13 PECO's revenue requirement for 2018.

14 In addition to sponsoring the exhibits described above, I am responsible for
15 responses to certain of the Pennsylvania Public Utility Commission's (the
16 "Commission") standard data filing requirements.

17 **7. Q. Will you discuss separately PECO Exhibit BSY-1, PECO Exhibit BSY-2 and**
18 **PECO Exhibit BSY-3?**

19 A. Yes, I will. However, because PECO is basing its proposed rate increase on the
20 adjusted FPFTY data, most of my direct testimony is devoted to explaining PECO
21 Exhibit BSY-1. My testimony regarding PECO Exhibits BSY-2 and BSY-3,

1 which are essentially identical in format to PECO Exhibit BSY-1, will briefly
2 address the pro forma adjustments that were made to 2018 budget data and
3 historic actual data, respectively, because the nature of those adjustments is the
4 same or similar to adjustments that I will have already discussed in the context of
5 PECO Exhibit BSY-1. However, I will specifically address any additional
6 adjustments or other differences among those exhibits.

7 **8. Q. How is the balance of your testimony structured?**

8 A. In Section II, I present an overview of PECO's FPFTY revenue requirement and
9 explain, in summary fashion, how the claimed measures of value, pro forma
10 present rate revenues, operating expenses, depreciation and taxes were
11 determined. Section III of my testimony provides a more detailed description of
12 the individual components comprising PECO's requested measures of value for
13 the FPFTY, while Section IV discusses the derivation, including appropriate
14 ratemaking adjustments, of PECO's revenue and expense claims for the FPFTY.
15 Section V briefly describes the FTY and the HTY data. Section VI introduces,
16 and explains the content of, PECO Exhibit BSY-4.

17 **II. OVERVIEW OF PECO'S FULLY PROJECTED FUTURE TEST YEAR**
18 **REVENUE REQUIREMENT**

19 **9. Q. Please provide an overview of how the Company's FPFTY measures of value**
20 **were determined.**

21 A. PECO's measures of value, as presented in PECO Exhibit BSY-1, consist of eight
22 principal components: (1) the depreciated original cost of utility plant in service
23 (original cost less accumulated depreciation); (2) accumulated deferred income

1 taxes (“ADIT”); (3) the unamortized balance of Automated Meter Reading
2 (“AMR”) investment related to legacy meters that are being retired and replaced
3 with advanced metering infrastructure (“AMI”) meters, pursuant to Commission-
4 approved plans developed to comply with Act 129 of 2008; (4) a pension asset,
5 which I will discuss hereafter; (5) customer deposits; (6) customer advances for
6 construction; (7) material and supplies; and (8) cash working capital. Each is
7 described briefly below.

8 **Depreciated Original Cost of Utility Plant in Service.** To determine utility
9 plant in service as of the end of the FTY, I began with the closing plant balances
10 actually recorded on the Company’s books of account at December 31, 2017,
11 including allocated common plant. To those balances, I added the budgeted
12 capital expenditures for PECO projects that are scheduled to close to plant in
13 service during the FTY and subtracted the anticipated plant retirements. The
14 same process was used to develop utility plant in service balances as of the end of
15 the FPFTY, beginning with the projected balances of plant in service at December
16 31, 2018, adding projected capital expenditures projected to be closed to plant in
17 service by the end of the FPFTY and subtracting anticipated retirements. The
18 Company’s claim for accumulated depreciation was determined in a similar
19 fashion, starting with the accumulated depreciation at December 31, 2017
20 assigned to each plant account, and bringing those data forward to reflect
21 additional depreciation accruals, plant retirements, and cost of removal net of
22 salvage for 2018 and 2019. Accumulated depreciation at December 31, 2019, was

1 then deducted from the projected balance of utility plant as of that date to derive
2 the Company's claimed FPFTY year-end net utility plant of \$ 5.2 billion.

3 **ADIT.** The credit balance of ADIT includes the liability for deferred federal
4 income taxes, net of an offset (debit) for the ADIT assets related to federal
5 income tax paid by the Company in advance of recognizing the associated tax
6 determinants for financial reporting purposes, which consist principally of
7 contributions-in-aid-of-construction ("CIAC") recognized as income for income
8 tax purposes and cash contributions to other post-employment benefit ("OPEB")
9 trusts in excess of the amount deductible for federal income tax purposes. Due to
10 the reduction in the Federal corporate tax rate that became effective on January 1,
11 2018, pursuant to the TCJA, there is "excess ADIT." "Excess ADIT" represents
12 taxes that were deferred prior to January 1, 2018 at the then-applicable 35% tax
13 rate but will be paid to the Federal government, after January 1, 2018, at the
14 current 21% tax rate. The "excess ADIT" is to be returned to customers over
15 periods that correspond to the periods over which the ADIT would have been paid
16 to the government if the Federal corporate tax rate had not been reduced. To
17 reflect that obligation, the Company has transferred its "excess ADIT" from the
18 Company's ADIT account to a new regulatory liability account. The sum of the
19 Company's ADIT account and its regulatory liability for "excess ADIT" at
20 December 31, 2019 is deducted from the Company's measures of value.

21 **Unamortized AMR Investment.** By its final Order at Docket No. M-2009-
22 2123944, the Commission approved a ten-year amortization, commencing

1 January 1, 2011, of PECO’s investment in legacy AMR meters. To determine the
2 balance of PECO’s unamortized AMR investment as of the end of the FPFTY, I
3 started with the balance of unrecovered AMR investment at December 31, 2017
4 and deducted the annual amortization amounts for the FTY and FPFTY.

5 **Pension Asset.** As I will explain in more detail hereafter, PECO has included a
6 pension asset in measures of value that consists of the portion of PECO’s actual
7 historic cash pension contributions that it neither recovered as an operating
8 expense nor capitalized to utility plant because the capitalized amounts are based
9 on costs determined pursuant to Financial Accounting Standards Codification
10 Topic 715 (“ASC 715”), which was formerly Statement of Financial Accounting
11 Standards 87 or “SFAS 87”.

12 **Customer Deposits, Customer Advances for Construction and Material and**
13 **Supplies.** The claimed levels of customer deposits and customer advances for
14 construction (both are deducted in determining the measures of value) and
15 material and supplies (which are added) are based on 13-month historic averages
16 for the period ended December 31, 2017, consistent with Commission precedent.

17 **Cash Working Capital.** Cash working capital was calculated using a lead-lag
18 study and includes elements that are consistent with past practice and
19 Commission precedent.

1 The components of the measure of value described above are shown in PECO
2 Exhibit BSY-1 on Schedule A-1 at lines 1 to 13 and are discussed in more detail
3 in Section III of my testimony.

4 **10. Q. How were the revenues at present rates derived?**

5 A. Revenues at present rates were developed by adjusting the budgeted revenues for
6 PECO's electric operations for the FPFTY to: (1) remove revenues related to
7 portions of the Company's business that are not subject to the jurisdiction of the
8 Commission; (2) remove revenues billed under the surcharge (i.e., non-base rate
9 revenue) that recovers the cost of implementing the Company's energy efficiency
10 and conservation programs pursuant to Act 129; (3) reverse the revenue credit
11 associated with the Company's tax repair allowance catch-up adjustment, which
12 is being provided pursuant to the terms of the settlement of PECO's 2010 electric
13 base rate case; (4) annualize revenues related to changes in number of customers
14 to reflect year-end levels as of the end of the FPFTY; (5) normalize revenues to
15 reflect 365.25 days; and (6) reflect various pro forma revenue adjustments, which
16 are summarized on Schedule D-5 of PECO Exhibit BSY-1 and are discussed in
17 more detail later in my testimony.

18 **11. Q. How were PECO's claimed operating expenses for the FPFTY determined?**

19 A. The pro forma FPFTY expenses were determined using PECO's 2019 budget as a
20 starting point. Budgeted expenses, which were prepared based on business
21 activities and related cost elements such as payroll, employee benefits, etc., were
22 distributed to FERC accounts based upon the distribution experienced by the

1 Company during the HTY. The budget data were then annualized or normalized
2 in accordance with established Commission ratemaking practices, and other
3 appropriate adjustments were made, all of which are included in Schedule D of
4 PECO Exhibit BSY-1. The necessary adjustments were made to the appropriate
5 FERC accounts.

6 **12. Q. Please describe how the taxes-other-than-income were determined for the**
7 **FPFTY.**

8 A. Those amounts were determined using budgeted amounts for the FPFTY, with pro
9 forma adjustments to payroll taxes to reflect the impact of the increase to FPFTY
10 salaries and wages and other adjustments to reflect known and measurable
11 changes, as shown on Schedule D-16 of PECO Exhibit BSY-1.

12 **13. Q. Please describe the calculation of depreciation expense for the FPFTY.**

13 A. The development of annual depreciation for electric and common plant is set forth
14 on pages 1 and 2 of Schedule D-17 of PECO Exhibit BSY-1. With respect to
15 electric distribution plant annual depreciation shown on page 1, the annual
16 depreciation expense budgeted by the Company of \$209.2 million, shown in
17 column 4 by plant account, was developed by Scott A. Bailey and is shown in
18 PECO Exhibit SAB-3. The budgeted depreciation expense includes depreciation
19 expense related to utility plant that will be in service at December 31, 2018, as
20 shown in column 2, and the depreciation expense related to 2019 plant additions,
21 as shown in column 3.

1 As Mr. Bailey explains (PECO Statement No. 4), the budgeted annual
2 depreciation amounts for both plant in service at December 31, 2018 and for 2019
3 additions were calculated using depreciation rates that reflect the service life
4 parameters developed in the Company's most recent service life study (PECO
5 Exhibit SAB-4). The annual depreciation for 2019 plant additions is based on
6 their expected actual in-service dates and, therefore, reflects less than twelve
7 months of depreciation for that plant. Accordingly, column 5 adjusts the total in
8 column 4 to annualize the annual depreciation on 2019 additions.

9 The total pro forma depreciation expense for electric operations is reduced by
10 depreciation expense attributable to transmission operations, as shown on lines 43
11 to 45. Depreciation expense does not include Asset Retirement Obligations
12 (“AROs”). The resulting pro forma FPFTY depreciation expense of \$184.2
13 million related to electric distribution plant is shown on line 48 in column 6. To
14 that amount must be added the electric distribution operations’ allocable share of
15 depreciation on common plant of \$36.2 million as shown on line 49 of page 1
16 (column 6) and detailed on page 2 of Schedule D-17 (column 6). The resulting
17 figure, \$220.4 million, is shown on line 50, in column 6, and on Schedule D-2, in
18 column 3.

19 **14. Q. How were income taxes calculated?**

20 A. Income taxes were calculated using procedures normally followed by the
21 Commission. Federal income tax expense was calculated at the 21% Federal
22 corporate tax rate that became effective on January 1, 2018, pursuant to the TCJA.

1 To maintain a consistent presentation across all of the test periods, the currently-
2 applicable 21% tax rate was used to calculate PECO's revenue requirement for
3 the HTY as well. The interest expense deduction was synchronized with the
4 Company's measures of value and claimed weighted average cost of long-term
5 debt. The normalization method was used to reflect the tax-book timing
6 differences associated with the use of accelerated methods of tax depreciation to
7 the extent permitted by the Commission and appellate precedent. Tax expense
8 was reduced to reflect the amortization of the unamortized investment tax credits.
9 Tax expense was also reduced to reflect the flow-back of "excess" ADIT that
10 results from the TCJA's reduction of the Federal corporate tax rate. The income
11 tax expense claims for the FPFTY at present rate and proposed rate revenue levels
12 are shown on PECO Exhibit BSY-1, Schedule D-18.

13 **15. Q. Please describe how the pro forma revenue increase and revenues at**
14 **proposed rates were established.**

15 A. Schedule A-1 of PECO Exhibit BSY-1 shows the calculation of PECO's claimed
16 revenue requirement and its requested rate increase. Column 3, lines 1 to 13,
17 summarize the pro forma measures of value.

18 Column 3, line 14a, shows the Company's electric distribution base rate revenue
19 at present rates. Column 4, line 14a, shows the increase over revenues at present
20 rates needed to recover the Company's FPFTY revenue requirement, which is
21 \$71.9 million. However, the Company's present base rates do not reflect the
22 effects of the TCJA for 2018, which the Company is proposing to return to
23 customers through a reconcilable Federal Tax Adjustment Credit ("FTAC"). The

1 amount of the reduction in PECO's revenue requirement for 2018 attributable to
2 the TCJA is set forth in PECO Exhibit BSY-4. The FTAC is explained by
3 Richard A. Schlesinger in PECO Statement No. 8. The tax effects of the TCJA
4 for 2019 have been fully incorporated in the development of the Company's
5 revenue requirement for the FPFTY. Therefore, to compare the results of current
6 operations to the pro forma FPFTY revenue requirement on a consistent basis,
7 revenues at present base rates were adjusted by \$70.6 million to reflect the effects
8 of the TCJA. That adjustment is shown in columns 3 and 4 on line 14b. As
9 shown in column 4, on line 14, the difference between present rate revenue
10 adjusted for the effects of the TCJA and pro forma revenue at proposed rates is
11 \$142.5 million.

12 Lines to 17 to 31 of column 3 set forth the calculation of the increase above
13 present rate revenue required to provide the Company the opportunity to earn the
14 overall rate of return of 7.79 percent calculated on Schedule B-7, and supported
15 by Mr. Moul (PECO Statement No. 5). The resulting required increase in net
16 operating income on line 27 was increased by the Gross Revenue Conversion
17 Factor ("GRCF"), shown on line 28, to provide for Late Payment Charge ("LPC")
18 revenue, uncollectible accounts expenses, gross receipts taxes, regulatory fees and
19 income taxes on the increased revenues requested. The revenue increase shown
20 on line 29 of column 3 is the difference between present rate revenue adjusted for
21 the effects of the TCJA and revenues at proposed rates. Line 30 reverses the
22 TCJA-related adjustment to present rate revenue. The increase in unadjusted
23 present rate revenue of \$71.9 million is shown on line 31 of column 3 and line

1 14a of column 4. Column 4, lines 14a through 22, also contain the calculation of
2 the revenue and expenses related to the proposed revenue increase.

3 Measures of value, revenues and expenses at proposed rates are shown in column
4 5, with the resulting overall rate of return of 7.79 percent shown on line 23 of
5 column 5.

6 **16. Q. What is the overall required increase in annual revenues for the Company’s**
7 **jurisdictional distribution operations for the FPFTY?**

8 A. As shown on line 14 of PECO Exhibit BSY-1, Schedule A-1, the proposed
9 increase in annual operating revenues is approximately \$142.5 million reflecting
10 the effects of the TCJA on a consistent basis for both present and proposed rate
11 revenue. When that figure is adjusted to remove the pro forma adjustment to
12 present rate revenue for the effects of the TCJA and to remove \$10 million of
13 additional 2019 Distribution System Improvement Charge (“DSIC”) revenue that
14 was also included on a pro forma basis in present rate revenue, the increase is
15 approximately \$82 million.

16 **17. Q. What is contained in Schedule B?**

17 A. Schedule B consists of a balance sheet for the total Company at December 31,
18 2019 reflecting the Company’s budget for 2019 (Schedule B-1); a statement of
19 Pennsylvania jurisdictional net operating income for the year ending December
20 31, 2019 (Schedule B-2); a statement of Pennsylvania jurisdictional operating
21 revenue for the year ending December 31, 2019 (Schedule B-3); a statement of
22 Pennsylvania jurisdictional operating and maintenance expense for the year

1 ending December 31, 2019 (Schedule B-4); a detailed breakdown of Pennsylvania
2 jurisdictional taxes other than income for the year ending December 31, 2019
3 (Schedule B-5); PECO's projected composite cost of long-term debt at December
4 31, 2019 (Schedule B-6); and the calculation of PECO's claimed overall rate of
5 return for the FPFTY (Schedule B-7). Schedules B-6 and B-7 reflect information
6 derived from the exhibits sponsored by PECO's rate of return witness, Paul R.
7 Moul (PECO Statement No. 5).

8 **III. MEASURES OF VALUE**

9 **A. Summary Of Measures Of Value**

10 **18. Q. Please describe Schedule C-1 of PECO Exhibit BSY-1.**

11 A. Schedule C-1 summarizes the measures of value for the FPFTY for the
12 Company's total Electric Division and its Pennsylvania jurisdictional operations.
13 Column 2 identifies the schedule where each of the measures of value elements is
14 derived, and columns 3 to 5 show the Company's total Electric Division, non-
15 Pennsylvania and Pennsylvania jurisdictional amounts, respectively. The
16 Company's claimed measures of value for the FPFTY, as shown in column 5, on
17 line 13, is approximately \$4.8 billion.

18 **B. Plant In Service**

19 **19. Q. Please describe Schedule C-2 of PECO Exhibit BSY-1.**

20 A. Schedule C-2 contains five pages and presents the Company's claimed FPFTY
21 utility plant in service.

22

1 **20. Q. What is shown on Schedule C-2, page 1?**

2 A. Schedule C-2, page 1, is a summary of estimated year-end plant in service
3 balances for the FPFTY by functional plant category. Column 2 shows the total-
4 Company electric plant in service balance, and column 3 reflects the removal of
5 transmission-related plant. Column 4 reflects the Company's estimated electric
6 distribution plant in service at the end of the FPFTY of \$7.2 billion (line 10),
7 which is shown on PECO Exhibit BSY-1, Schedule A-1, at column 3, line 1.

8 **21. Q. How was total utility plant in service for the Electric Division of \$9.0 billion,**
9 **shown on Schedule C-2, page 1, column 2, line 10, determined?**

10 A. The amount of \$9.0 billion represents the estimated plant in service balance at
11 December 31, 2019 for the Electric Division, including distribution and
12 transmission plant, and is based on utility plant in service at December 31, 2017,
13 including distribution and transmission, plus budgeted capital expenditures
14 estimated to be closed to plant in service the FTY and FPFTY, less the estimated
15 retirements in the FTY and FPFTY.

16 **22. Q. Please describe Schedule C-2, page 2.**

17 A. Page 2, column 2, shows the plant in service balances budgeted as of the end of
18 the FPFTY by FERC account for the total Electric Division. Column 3 sets forth
19 the adjustments needed to remove intangible plant assigned to transmission (line
20 3), transmission plant included in the transmission accounts (line 14), and the
21 portion of general plant allocated to transmission operations (line 41). The

1 calculation of the intangible plant and general plant allocated to transmission is
2 described in connection with page 5 of Schedule C-2.

3 **23. Q. What is shown on page 3 of Schedule C-2?**

4 A. Page 3 sets forth the Company's estimated additions to be closed to plant in
5 service during the FTY and FPFTY. These data were developed based on the
6 FTY and FPFTY capital budgets. The total-Company additions of \$514.0 million
7 and \$586.2 million are shown on line 42, columns 6 and 7, respectively.

8 **24. Q. What is shown on Schedule C-2, page 4?**

9 A. Page 4 of Schedule C-2 presents the estimated plant retirements for the FTY and
10 the FPFTY, based on the average of actual retirements for the years 2015 – 2017.

11 **25. Q. What is contained on page 5 of Schedule C-2?**

12 A. Page 5 details the adjustments necessary to remove all transmission-related
13 intangible, general and transmission plant recorded in transmission accounts
14 under FERC jurisdiction from the account balances, as shown in columns 2 and 3.
15 As shown in column 3, 11.31% of intangible (FERC Account 302) and general
16 plant was allocated to the transmission function. The allocation factor is based on
17 salaries and wages actually recorded in PECO's transmission accounts as a
18 percentage of its total actual salaries and wages in 2016. Most of the intangible
19 plant recorded in FERC account 303 was directly assigned to the transmission and
20 distribution functions, with the balance being allocated using the same salaries
21 and wages factor discussed above.

1 **C. Accumulated Depreciation**

2 **26. Q. What is the purpose of Schedule C-3 of PECO Exhibit BSY-1?**

3 A. This schedule, consisting of 4 pages, presents the provision for accumulated
4 depreciation at December 31, 2019 by FERC account, as developed by Mr. Bailey
5 (PECO Statement No. 4), and adjustments related to transmission plant and cost
6 of removal net of salvage, as explained more fully below. PECO's accumulated
7 depreciation of approximately \$2.0 billion is summarized on page 1 of Schedule
8 C-3 and then carried forward to line 2 of Schedule A-1.

9 **27. Q. Please describe page 1 of Schedule C-3.**

10 A. This page shows the accumulated depreciation balance for the FPFTY by account
11 category, including the accumulated depreciation balance for total electric
12 operations, as shown in column 2, and the adjustments, as shown in column 3, to
13 remove the transmission-related accumulated depreciation, in order to derive the
14 Pennsylvania jurisdictional pro forma accumulated depreciation, as shown in
15 column 4.

16 **28. Q. What is contained on pages 2 and 3 of Schedule C-3?**

17 A. Page 2 shows the accumulated depreciation balance by FERC account at the end
18 of the FPFTY, including the accumulated depreciation balance for total electric
19 operations, as shown in column 2, and the adjustments, as shown in column 3, to
20 remove the transmission-related accumulated depreciation, in order to derive the
21 Pennsylvania jurisdictional pro forma accumulated depreciation shown in column
22 4. To determine the accumulated depreciation balance at the end of FPFTY, the

1 Company started with the accumulated depreciation balance at December 31,
2 2017 and added depreciation expense, less retirements and cost of removal net of
3 salvage, for the FTY and FPFTY. Page 3 of Schedule C-3 shows the cost of
4 removal net of salvage included in the FPFTY accumulated depreciation
5 calculations.

6 **29. Q. What is contained on page 4 of Schedule C-3?**

7 A. Page 4 details the adjustments necessary to remove all transmission-related
8 intangible and general plant and plant recorded in transmission accounts under
9 FERC jurisdiction from the account balances. As shown in column 3, 11.31% of
10 accumulated depreciation for intangible (FERC account 302) and general plant
11 was allocated to the transmission function. The allocation factor was developed in
12 the same manner as the allocation factor I described in connection with Schedule
13 C-2 (i.e., salaries and wages actually recorded in PECO's transmission accounts
14 as a percentage of its total actual salaries and wages in 2016). Consistent with
15 Schedule C-2, most of the intangible plant recorded in FERC account 303 was
16 directly assigned to the transmission and distribution functions, with the balance
17 being allocated using the same salaries and wages factor discussed above.

18 **D. Cash Working Capital**

19 **30. Q. What is set forth on Schedule C-4, page 1, of PECO Exhibit BSY-1?**

20 A. This is a summary of the Cash Working Capital ("CWC") calculations, which are
21 detailed on pages 2 to 10 of this schedule. The total of \$149.1 million shown on

1 line 5 is included in PECO's claimed measures of value as shown on PECO
2 Exhibit BSY-1, Schedule A-1, columns 3 and 5, line 4.

3 **31. Q. Please describe page 2 of Schedule C-4.**

4 A. Page 2 summarizes the derivation of PECO's revenue collection lag and overall
5 operating expense payment lag. The revenue lag of 47.25 days is shown on line
6 1. The expense lag days for each of the components of operating and
7 maintenance expenses appear on lines 2 to 8 and are totaled on line 9. Line 10
8 shows the lag associated with payments to electric generation suppliers ("EGSs")
9 for the purchase of receivables ("POR") from EGSs pursuant to the Company's
10 Commission-approved POR program. The composite operating and maintenance
11 expense and POR lag of 33.17 days is shown on line 12. The net lag of 14.08
12 days (47.25 – 33.17) shown on line 13 is multiplied by the average daily operating
13 expense balance on line 14 to arrive at the base CWC amount of \$93.7 million for
14 operating expenses shown on line 15. The average daily operating expense
15 balance of \$6.7 million on line 14 was determined by dividing the total pro forma
16 annual operating expenses, excluding uncollectible accounts expense, of \$2.4
17 billion on line 11, column 2, by the number of days in a year, 365. The other
18 components of CWC are shown on lines 16 to 18 and will be described in
19 connection with my discussion of related supporting schedules.

20 **32. Q. Please describe the revenue lag calculation shown on Schedule C-4, page 3.**

21 A. The total revenue lag days shown on line 21 of 47.25 days consist of three parts.
22 First, the average of the month-end accounts receivable balances for the thirteen
23 months ended December 31, 2017 (shown in column 2 on line 17) was divided

1 into the annual revenue billed during the twelve months ended December 31,
2 2017, (column 3 on line 17) to calculate the accounts receivable turnover rate of
3 11.76 (column 4, line 17). A turnover rate of 11.76 is equivalent to 31.04 revenue
4 lag days (365 days divided by 11.76 accounts receivable turnover rate), as shown
5 in column 5 on line 17. This is referred to as the collection lag or the payment
6 portion of the revenue lag. The payment portion of the revenue lag is added to:
7 (1) the 1.0-day lag between the meter reading date and the day bills are recorded
8 as revenue and accounts receivable by the Company; and (2) the 15.21 day period
9 from the mid-point of the service period until the meter reading date, to calculate
10 the total revenue lag of 47.25 days, as shown on line 21.

11 **33. Q. How does the total revenue lag of 47.25 days compare to the total revenue lag**
12 **presented in the Company's 2015 base rate proceeding?**

13 A. The Company's total revenue lag has decreased significantly since its 2015 base
14 rate filing. In that case, the Company's total revenue lag was 52.89 days. The
15 reduction to 47.25 days is primarily attributable to the full deployment of
16 Advanced Metering Infrastructure. This reduction in revenue lag days translates
17 into a reduction in cash working capital in this case of approximately \$37.5
18 million.

19 **34. Q. How was the mid-point of the service period calculated?**

20 A. The mid-point of the service period is equal to the days in an average month (365
21 days divided by 12, or 30.42 days) divided by 2, or 15.21 days.

22

1 **36. Q. Please describe page 4 of Schedule C-4.**

2 A. Schedule C-4, page 4, shows the calculation of the expense lags used in the CWC
3 calculation. Lines 1 to 4 reflect the payroll expense lag. The payroll amounts for
4 the FPFTY are developed on Schedule D-6. The lag periods for the payment of
5 union and non-union payroll are combined because all employees are paid on the
6 same schedule. The lag days reflect PECO's actual payment cycles. Lines 5 to 8
7 show the lag in the payment of pension costs during the FPFTY. The lag period
8 is calculated using a mid-point of July 1 and the payment dates shown in column
9 1. This results in an average payment lead of 167 days, which was applied to the
10 pro forma pension expense derived from Schedule D-9, line 12 and shown on
11 Schedule C-4, page 2, line 3.

12 **37. Q. How did you develop the lag days associated with the purchased energy costs**
13 **shown on line 13 of Schedule C-4, page 4?**

14 A. Effective January 1, 2011, PECO started to purchase power for its default service
15 customers through a Supply Master Agreement. To calculate its CWC
16 requirements, the Company determined, on a monthly basis for the FPFTY, the
17 number of days between the midpoint of the applicable service month and the
18 payment date, which is estimated to be the first business day after the 19th
19 calendar day of the following month. This procedure yields a composite expense
20 lag of 35.71 days as shown on Schedule C-4, page 10, line 13.

1 **38. Q. Does the Company plan to purchase 100 percent of its energy requirements**
2 **from contract suppliers?**

3 A. No, it does not. Based on the Commission’s final Order in the Company’s most
4 recent default service proceeding (Docket No. P-2016-2534980), the Company
5 purchases 0.8 percent of the energy requirements of its residential default service
6 customers on the spot market and will continue to do so through May 31, 2021.

7 **39. Q. Have you calculated a separate expense lag for spot market purchases?**

8 A. Yes. The spot market purchases will be paid weekly, on Friday, for purchases
9 made through the week ended the previous Tuesday. This results in a payment
10 lag of 12.5 days, consisting of 3.5 days from the mid-point to the end of the
11 seven-day service period, and 9 days for the period between the end of the service
12 period and the payment date. Since the payments will be made by wire transfer,
13 the total lag days will be 12.5 as calculated on page 10, lines 16 to 17.

14 **40. Q. Please address the transmission service charges paid to the PJM**
15 **Interconnection LLC (“PJM”) for transmission service provided by PJM.**

16 A. PJM transmission service charges are paid on the same schedule as the spot
17 market purchases. Consequently, the total lag days for PJM transmission service
18 charges are also 12.5 days.

1 **41. Q. How was the expense lag of 38.21 days for POR payments determined?**

2 A. PECO pays EGSs 20 days after the billing date for commercial and industrial
3 accounts and 25 days after the billing date for residential accounts. The weighted
4 average payment lag for all accounts is 22.00 days as shown on page 10, line 20.
5 Bill processing takes one day (page 10, line 21), and there is an average of 15.21
6 days from the midpoint of a service period to the meter reading date (page 10, line
7 22). The total payment lag, therefore, is 38.21 days (page 10, line 23).

8 **42. Q. Please describe how you determined the payment lag associated with other**
9 **operating and maintenance expenses.**

10 A. The average payment lag for all remaining expenses, as set forth on lines 12 to 15
11 of page 4 of Schedule C-4, was derived from data for the four months shown in
12 detail on page 5 of Schedule C-4. More specifically, the Company obtained a
13 listing of all cash disbursements during each of the four months displayed in a
14 format that shows the payee, the date of service or the invoice receipt date, the
15 amount of the disbursement, the date the payment cleared the bank, the account to
16 which the disbursement was charged and certain other data. Each month contains
17 thousands of cash disbursements.

18 **43. Q. How did you utilize the data?**

19 A. I used the data in the column showing the number of days it took each
20 disbursement to clear the bank from the invoice receipt date or service date to
21 calculate the dollar days (the amount of the disbursement times the number of
22 days the payment took to clear the bank) and sorted the disbursements by amount.

1 I then eliminated disbursements that should not be included in a CWC calculation
2 or that are included elsewhere in the CWC calculation.

3 **44. Q. What disbursements did you eliminate from the balances used on page 5 of**
4 **Schedule C-4?**

5 A. First, I eliminated all disbursements related to capital charges because they are not
6 part of the Company's claimed operating expenses. Second, I eliminated all
7 disbursements under \$1,000 since those amounts, while significant in number,
8 would not have a meaningful impact on the overall lag-day calculation. Third, I
9 removed all commodity purchases since those are reflected in separate CWC
10 calculations, as I previously described. Fourth, I removed all amounts charged to
11 non-expense accounts and any charitable contributions. This process was
12 completed for each of the four months shown on page 5, lines 1 to 9. The total
13 cash disbursements for all four months of \$69.4 million, as shown in column 2, on
14 line 9, of page 5 of Schedule C-4, and the related dollar-days of \$2.6 billion,
15 shown in column 3, were used to calculate the payment lag for general expenses
16 of 37.63 days shown in column 4. The 37.63 lag days for Other Disbursements
17 were then brought forward to Schedule C-4, page 2, line 16.

18 **45. Q. Please explain how the average prepayments of \$7.0 million shown on line 16**
19 **of Schedule C-4, page 2, were determined.**

20 A. That amount is calculated on page 9 of Schedule C-4 and represents the thirteen-
21 month average of actual amounts at the end of each month from December 2016
22 to December 2017. As shown on page 9, the prepayments in question comprise
23 10 different items.

1 **46. Q. How did you determine the lag days for the tax expense component of**
2 **working capital shown on page 6 of Schedule C-4 and brought forward to**
3 **page 2 on line 17?**

4 A. The calculations on page 6 of Schedule C-4 use the pro forma tax expense at
5 proposed rates shown in column 2 and the net revenue lag days for each tax as
6 shown in column 3. The product of multiplying those components is shown in
7 column 4 and is used as the working capital related to the taxes paid by the
8 Company. The net payment lag days for each of the taxes are calculated on page
9 7 of Schedule C-4.

10 **47. Q. Describe what is shown on page 7 of Schedule C-4.**

11 A. As noted previously, this page provides the calculations of the net payment lag
12 days for the tax expense components of PECO's CWC allowance. The type of
13 tax and the payment schedule for that tax are shown in the description column.
14 The payment dates are reflected in column 1. The payment lead or (lag) from the
15 midpoint of the year is shown in column 3. The pro forma amount of the payment
16 for each tax is shown in column 4 on the line with the name of the tax and
17 payment date. For example, the pro forma federal income tax amount at proposed
18 revenue levels of \$57.8 million is shown on line 1 in column 4. The payment
19 amounts required are reflected for each tax on the dates shown in column 1, and
20 the weighted lead (lag) amount for each payment is calculated in column 5 for
21 each tax. The payment lead (lag) days are calculated and shown on the total line
22 in column 6 for each tax. These days are netted against the revenue lag days

1 shown in column 7, and the net payment lag is shown in column 8 and reflected
2 on page 6 of Schedule C-4.

3 **48. Q. Why are separate calculations made for the various categories of tax**
4 **expense?**

5 A. This is necessary because each of the tax expense items has separate payment
6 dates. For example, as shown on page 7 of Schedule C-4, 25 percent of the
7 estimated federal income tax liability is due on April 15, June 15, September 15
8 and December 15 of each year. The tax payment dates and percent due for other
9 tax expense items are not the same. Using a separate calculation for each tax
10 expense matches the cash requirement for payment of those expenses with the
11 anticipated cash from revenues for the equivalent service period.

12 **49. Q. Please describe the calculation of the interest expense lag shown on page 8**
13 **and included on page 2 of Schedule C-4.**

14 A. This calculation measures the lag associated with the semi-annual payment of
15 interest on outstanding debt. The pro forma interest expense is the amount
16 resulting from the synchronized interest calculation using the pro forma measures
17 of value and the weighted cost of debt included in PECO's requested rate of
18 return. The daily interest expense amount, calculated on line 5, is multiplied by
19 the net payment lag of 44 days for a reduction to the working capital allowance of
20 \$11.3 million, as shown on line 9 and on page 2 at line 18.

1 **50. Q. What is shown on Schedule C-4, page 9?**

2 A. This page shows the calculation of the average prepaid expenses included in the
3 CWC. The Company reviewed its prepaid accounts and selected only those
4 prepaid expenses that were related, in whole or in part, to its electric delivery
5 operations. The resulting prepaid accounts are shown in columns 2 to 13. The
6 monthly totals are shown in column 1. Note that the EPRI dues shown in column
7 2 are related to electric operations, and the total and average monthly amounts
8 were allocated to eliminate the portion related to electric transmission. Where
9 items related entirely to the electric operations, such as the PUC Assessment in
10 column 5, the total and average monthly amount were charged entirely to electric
11 distribution, as shown on line 15 in columns 3 to 6. Where the account related to
12 both electric and gas operations, the total and average were distributed using an
13 appropriate allocation factor that eliminates both gas-related expenses and non-
14 jurisdictional expenses, as shown on line 15 in columns 7 to 10. Finally, where
15 the prepaid expense is related to electric distribution and gas operations, a factor
16 was used to isolate only electric distribution operations, as shown on line 15 in
17 columns 11 to 13. The thirteen-month average for prepaid expenses for the
18 electric distribution operations is \$7.0 million as shown on line 19 of Schedule C-
19 4, page 9 and on Schedule C-4, page 1, line 4.

20 **51. Q. What is the total amount of CWC included in the claimed measures of value?**

21 A. That amount is the \$149.1 million shown on Schedule C-4, page 1, line 5 and on
22 Schedule A-1, page 1, line 4.

1 **E. Pension Asset**

2 **52. Q. Please describe Schedule C-5.**

3 A. Schedule C-5 shows the calculation of the pension asset of \$95.2 million (column
4 4, line 6) that the Company has included in measures of value. The asset
5 represents the portion of the Company’s net aggregate total of pension costs
6 incurred to date, calculated in the manner required for ratemaking purposes, that
7 was not recovered in operating expenses and was also not capitalized to its plant
8 accounts. This asset represents the difference between the manner in which
9 pension expense is calculated for ratemaking purposes and the manner in which
10 pension costs are determined for purposes of calculating the labor loading rate
11 used to capitalize a portion of pension costs under applicable Generally Accepted
12 Accounting Principles (“GAAP”). Specifically, for ratemaking purposes,
13 consistent with Commission policy and practice, PECO has historically claimed
14 for recovery its actual cash contributions to its pension fund. However, also
15 consistent with Commission policy and practice, the amount of the total cash
16 contribution included in operating and maintenance expenses was determined by
17 reducing the total cash contribution by the capitalization rate used for ratemaking
18 purposes to separate labor-related costs between amounts that are expensed and
19 amounts assigned, on a pro forma basis, to capital. Using 2019 as an example, as
20 shown on Schedule D-9, PECO’s total pension cash contribution will be \$23.8
21 million, of which 72.98% is attributable to electric distribution. PECO’s
22 capitalization rate is 36.74%. Therefore, \$6.4 million ($\$23.8 \text{ million} * 72.98\% * 36.74\%$)
23 was assumed to be capitalized and included in applicable plant accounts.

1 However, in 2019 – in fact, every year – the amount PECO included in applicable
2 plant accounts for capitalized pension costs was calculated on the basis of ASC
3 715, as GAAP and applicable financial reporting mandates require. For 2019, the
4 amount of pension cost actually capitalized would be only \$3.3 million. As a
5 consequence, there was a gap of \$3.1 million of pension costs. As shown on
6 Schedule C-5, the pension asset balance at the end of the FPFTY will be \$95.2
7 million for electric distribution.

8 **F. ADIT and Regulatory Liability for Excess ADIT**

9 **53. Q. What is the purpose of Schedule C-6?**

10 A. Schedule C-6 shows the December 31, 2019 balances of ADIT and of the
11 regulatory liability for “excess ADIT” that are deducted in determining the
12 measures of value. The ADIT shown on line 20 of \$537.4 million reflects the
13 federal income tax that must be deferred in compliance with the normalization
14 provisions pertaining to the use of accelerated tax depreciation for federal income
15 tax purposes on test year plant balances and other tax/book timing differences that
16 have been normalized. The accelerated tax depreciation used in the determination
17 of taxable income for federal and state income tax expense calculations is
18 reflected on Schedule D-18. The regulatory liability shown on line 8 of \$336.5
19 million is the “excess ADIT” that is being returned to customers and reflects the
20 difference between taxes deferred prior to January 1, 2018 at the Federal
21 corporate tax rate of 35% and what those deferred taxes would have been at the
22 current Federal corporate tax rate of 21%. As I previously explained, “excess
23 ADIT” was transferred from the Company’s ADIT account to the regulatory

1 liability for “excess ADIT.” “Excess ADIT” recorded in the regulatory liability
2 account that is related to utility plant for which tax/book timing differences are
3 subject to a normalization requirement will be amortized, and the balance of the
4 regulatory liability will be ratably reduced, over a period determined in
5 accordance with the Average Rate Assumption Method (“ARAM”) set forth in
6 the Internal Revenue Service’s (“IRS”) regulations.

7 **54. Q. Have you made an adjustment for the federal income tax on CIAC?**

8 A. It was not necessary to make a separate adjustment for CIAC. CIAC is treated as
9 a capital contribution for ratemaking purposes, but is treated as taxable income for
10 federal income tax purposes. PECO pays the federal income tax due on CIAC in
11 the year the CIAC is received and included in taxable income. The associated tax
12 payment is recorded as a debit to the ADIT account, which normally carries a
13 credit balance. Consequently, the net effect of the calculation of ADIT properly
14 reflects the tax-book timing difference related to taxes paid on CIAC as shown on
15 line 16.

16 **55. Q. Please describe ADIT related to OPEB contributions shown on lines 7, 11,
17 and 15?**

18 A. The Company’s actual cash contributions to OPEB trusts are based on OPEB
19 expense. PECO’s actual cash contributions (equal to its OPEB costs) have
20 exceeded the amounts it was entitled to deduct for federal income taxes purposes
21 in each year. Consequently, PECO established a deferred tax asset related to its
22 OPEB contributions in excess of the tax-deductible amounts, as shown on
23 Schedule C-6.

1 **56. Q. What is the amount of ADIT used in the measures of value?**

2 A. The amount for electric distribution operations is \$537.4 million, as shown on line
3 20 of Schedule C-6 and on line 6 of Schedule A-1, in columns 3 and 5.

4 **G. Customer Deposits**

5 **57. Q. Please explain how you determined the amount of customer deposits on**
6 **Schedule C-7 that was deducted from the claimed measures of value on**
7 **Schedule A-1.**

8 A. The customer deposits shown in column 1 (lines 1-13) reflect the average of the
9 month-end balances for the thirteen months ended December 2017. The
10 Company maintains a joint customer deposit account because many of its
11 customers use both its electric and natural gas services. Total Company customer
12 deposits were allocated between electric and gas operations based on electric and
13 gas customer class revenues. Schedule C-7 shows the customer deposits related
14 solely to the Company's electric distribution operations.

15 **58. Q. Where are these amounts of customer deposits and interest shown?**

16 A. The total of customer deposits for all classes of electric distribution customers is a
17 deduction to measures of value of \$50.6 million, as shown on line 20 of Schedule
18 C-7 and on Schedule A-1, line 7 columns 3 and 5. The calculated interest
19 expense related to these customer deposits of \$1.3 million, as shown in Schedule
20 D-12, is included in the Company's operating expenses as shown on PECO
21 Exhibit BSY-1, Schedule D-3, page 2, column 11, line 62.

1 **H. Common Plant**

2 **59. Q. Please describe Schedule C-8.**

3 A. Schedule C-8 shows the calculation of the amount of common plant and related
4 accumulated depreciation that are properly allocated to PECO's electric
5 distribution operations. Lines 1 to 8 reflect the components of the common plant
6 balances at December 31, 2019, and lines 9 to 15 reflect the associated
7 components of accumulated depreciation on such plant as of that date. Total
8 common plant and accumulated depreciation are presented in column 1, and the
9 percent allocated to electric distribution operations is shown in column 2. The net
10 common plant amount shown on line 18, in column 3, of \$326.1 million is
11 included in the Company's measures of value on Schedule A-1, line 8, columns 3
12 and 5. The total common plant amount reflects the original cost of plant used in
13 both electric and gas operations. The accumulated depreciation and amortization
14 reflect the use of the Company's depreciation and amortization procedures and
15 appropriate depreciation rates, as I previously explained. As discussed by Mr.
16 Bailey (PECO Statement No. 4), the allocation between electric distribution,
17 electric transmission and gas operations is based on recorded data for three
18 factors, consisting of Plant in Service, Total Revenue and Total Customers. This
19 three-factor method is frequently used to distribute common costs between utility
20 services.

1 **I. Customer Advances For Construction**

2 **60. Q. What is contained on Schedule C-9?**

3 A. This schedule shows the average monthly balance of customer advances for
4 construction of \$1.0 million on line 15, which is deducted in calculating the
5 measures of value on Schedule A-1, line 9, columns 3 and 5.

6 **61. Q. How were the monthly balances determined?**

7 A. The Company was able to identify the specific amounts attributable to its electric
8 distribution operations based on a review of its accounting records.

9 **J. Unamortized AMR Investment**

10 **62. Q. Please describe Schedule C-10.**

11 A. Schedule C-10 shows the unamortized AMR investment at the end of the FPFTY
12 of \$11.6 million, which is included in the determination of measures of value. In
13 accordance with the final order in PECO’s Smart Meter Technology Procurement
14 and Installment Plan at Docket M-2009-2123944, the Company was allowed to
15 recover its unamortized AMR investment over a 10-year period ending December
16 31, 2020. The unamortized investment amount as of the end of 2017 is \$34.7
17 million, as shown on line 1. The remaining amortization period is 3 years (from
18 2018 to 2020), and the associated annual amortization is \$11.6 million, as shown
19 on lines 3 and 5. The resulting unamortized AMR investment balance is \$23.1
20 million at the end of FTY, as shown on line 4 and \$11.6 million at the end of
21 FPFTY, as shown in line 6. The amount of \$11.6 million is brought forward to
22 Schedule A-1 line 10.

1 **K. Materials And Supplies**

2 **63. Q. Please describe Schedule C-11.**

3 A. Schedule C-11 shows the derivation of PECO’s claim for materials and supplies
4 and undistributed stores expense. The materials and supplies balances in column
5 1 were specifically identified as electric distribution-related amounts and,
6 therefore, 100 percent of those amounts is shown on line 17 in column 1. The
7 undistributed stores expense shown in column 2 reflects amounts attributable to
8 PECO’s total utility operations and, therefore, the electric distribution allocation
9 factor of 69.9% was applied to determine the thirteen-month average of monthly
10 balances, as shown on line 17, in column 2. The claimed amount of \$15.9 million
11 reflected in column 3 is based on the thirteen-month average for the period ended
12 December 31, 2017 and is shown on line 17, columns 3 and 5, of the measures of
13 value on Schedule A-1.

14 **64. Q. What is the Company’s claimed measures of value in this proceeding?**

15 A. PECO’s claimed measures of value, or rate base, equals \$4.8 billion, as shown on
16 line 13 of Schedule A-1.

17 **IV. REVENUES AND EXPENSES**

18 **65. Q. What is shown on Schedule D-1 of PECO Exhibit BSY-1?**

19 A. Schedule D-1 is a summary income statement that depicts PECO’s claimed
20 electric revenues, expenses and taxes at present and proposed rate levels. The
21 derivation of most of the individual line items will be discussed in connection

1 with the remaining schedules in Section D. Schedule D-1 also shows the revenue
2 increase of \$142.5 million on line 3 in column 2.

3 **66. Q. What is the indicated net operating income at proposed rates?**

4 A. As shown on line 29, column 3, of Schedule D-1, and also on Schedule A-1, line
5 22, column 5, that amount is \$377.3 million.

6 **67. Q. Please describe Schedule D-2.**

7 A. Schedule D-2 shows the derivation of the various line items on Schedule D-1.
8 Lines 15 to 19 adjust for TCJA tax effects by customer class. Schedule D-2
9 begins with the Company's budgeted revenues and expenses for its Pennsylvania
10 jurisdictional electric operations for the FPFTY, in column 1, and then annualizes
11 and/or normalizes those figures through adjustments summarized in column 2.
12 The pro forma data in column 3 are summarized and brought forward to Schedule
13 D-1 and used in the determination of the required revenue increase. The various
14 revenue adjustments in column 2 are summarized on Schedule D-3 and listed by
15 adjustment on Schedule D-5, and the expense adjustments are summarized on
16 Schedule D-3 and described in more detail on the separate adjustment schedules
17 beginning with Schedule D-6 and continuing through Schedule D-16.

18 **68. Q. Please describe Schedule D-3.**

19 A. Schedule D-3 summarizes the various adjustments that were made to the budgeted
20 revenue and expense data to derive the pro forma amounts at present rates that
21 appear in column 3 of Schedule D-2 and are included in the adjusted amounts that
22 are carried forward to column 1 of Schedule D-1. The FPFTY budgeted amounts

1 are shown in column 1 on page 1 and the revenue adjustment totals are shown in
2 column 2 on page 1. The various expense adjustments are reflected in columns 3
3 to 8 of page 1 and in columns 11 to 17 of page 2 of Schedule D-3. Each of the
4 pro forma adjustments will be described in connection with the specific schedule
5 supporting the adjustment.

6 **69. Q. Please describe Schedule D-4.**

7 A. Schedule D-4 contains two pages and presents a summary of the pro forma
8 revenues and operating expenses shown on Schedule D-3 by FERC account.

9 **A. Revenue Adjustments**

10 **70. Q. Please describe Schedule D-5.**

11 A. Schedule D-5 presents a summary of the separate pro forma adjustments to
12 revenue for the FPFTY. Each of these adjustments will be described in detail in
13 connection with the separate calculation of the adjustment shown on Schedules D-
14 5A to D-5F.

15 **71. Q. How did you calculate the revenue adjustment shown on Schedule D-5A?**

16 A. This adjustment annualizes distribution revenues for the projected number of
17 customers at the end of the FPFTY. As shown on lines 1 to 4, for all customer
18 classifications this calculation determines the pro forma test year distribution
19 revenues, excluding reconcilable surcharges, at present rates for the FPFTY. The
20 average distribution revenues on line 4 were divided by the average number of
21 customers for the year included in the 2019 budget on line 5 to determine the
22 average distribution revenue per customer on line 6. The average distribution

1 revenue, or margin, per customer for the FPFTY on line 6 was then multiplied by
2 the difference between the average number of customers (line 5) and the number
3 of customers at the end of the FPFTY (line 7), which difference is shown on line
4 8, yielding additional revenue of approximately \$3.0 million for the residential,
5 residential heating and small C&I customer classes, as shown on line 9 by
6 customer classification. This pro forma adjustment is then reflected on Schedule
7 D-5, column 5 by customer classification.

8 **72. Q. Please describe the adjustment calculated on Schedule D-5B.**

9 A. This adjustment annualizes the cost of the discounts provided to customers
10 enrolled in PECO's Customer Assistance Program ("CAP") in the form of a bill
11 credit, reflecting the number of CAP customers at the end of the FPFTY. As
12 shown in line 3, the average CAP discount per CAP customer is determined by
13 dividing the total budgeted CAP discount on line 1 by the average number of CAP
14 customers shown on line 2. The average CAP discount per CAP customer is then
15 multiplied by the difference between FPFTY year-end CAP customers on line 4
16 and the average number of CAP customers shown on line 2. This yields a
17 decrease in the CAP discount of \$258,000, which is offset for uncollectible
18 accounts and CWC factors as shown on line 7. Thus, the net decrease of
19 \$188,000 is shown on line 8, which is brought forward to column 6 in Schedule
20 D-5.

21 **73. Q. Please describe the adjustment on Schedule D-5C.**

22 A. This adjustment shows the reductions in revenue that the Company expects to
23 experience related to the reductions in load that the Company must achieve in

1 order to comply with the energy efficiency and conservation provisions of Act
2 129 of 2008. The Company's implementation of its approved programs has
3 yielded considerable benefits for customers by helping them to save energy and,
4 in some cases, to reduce demand. The energy savings, however, have caused and
5 will continue to cause substantial reductions in the Company's distribution
6 revenues. The Company is proposing to recognize those distribution revenue
7 reductions by reducing budgeted FPFTY distribution revenues by the average of
8 the projected incremental revenue losses to be experienced in 2020 and 2021 over
9 revenue losses included in the 2019 budget, as adjusted to normalize the sales
10 reductions for the seven months from June 1 through December 31, 2021. The
11 normalization adjustment is required because PECO plans to implement a new
12 energy efficiency and conservation plan as of June 1, 2021, and, as a result, there
13 will be a "ramp up" period during the first seven months of the new plan before
14 the normal, steady-state level of monthly usage reductions is achieved. The
15 Company's normalization adjustment removes the "ramp-up" reductions
16 projected for each month during the "ramp-up" period and replaces them with the
17 average of the monthly reductions for each corresponding month during the years
18 2017 to 2020. For example, the adjusted reduction for June 2021 is the average of
19 the monthly reductions for the month of June for the years 2017 through 2020.

20 **74. Q. What is the total amount of the pro forma revenue adjustment the Company**
21 **is proposing?**

22 A. As shown on Schedule D-5C, column 6, line 36, the Company is proposing a pro
23 forma revenue adjustment to its FPFTY budgeted revenue of \$19.1 million, which

1 will allow the Company to recover its lost revenue for 2020 and 2021 through the
2 rates established in this proceeding.

3 **75. Q. In your opinion, is it reasonable for PECO to request that these energy**
4 **savings be recognized in the determination of its revenue requirement?**

5 A. Yes, for primarily two reasons. First, Act 129 specifically contemplates that
6 revenue reductions attributable to the mandated energy efficiency programs be
7 taken into account in establishing base rates. My adjustments are designed to
8 achieve that end by setting rates based on sales levels that reflect the incremental
9 lost revenues related to mandatory Act 129 usage reductions in 2020 and 2021.
10 Second, it would be unfair to require PECO to implement these programs, or be
11 subjected to possible penalties for non-compliance with legislatively imposed
12 energy-reduction goals, and then deny it rate recovery of the lost revenues,
13 particularly given the tremendous benefits that inure to customers. This
14 adjustment aligns the customer and Company interests in promoting energy-
15 conservation, providing significant savings to the customers and permitting PECO
16 to recover lost revenues during the same period that the customers are receiving
17 the benefits of reduced bills from the legislatively-mandated and Commission-
18 approved programs.

19 **76. Q. Please describe the adjustment shown on Schedule D-5D.**

20 A. This adjustment removes the budgeted revenues associated with the recovery of
21 costs associated with developing and implementing PECO's energy-efficiency
22 and conservation programs. Act 129 allows such costs to be recovered through a
23 separate Section 1307 reconcilable adjustment clause. PECO will continue to

1 utilize its EE&C surcharge mechanism for the recovery of these costs in the
2 future. Therefore, the associated surcharge revenues have been removed from
3 base rate revenue.

4 **77. Q. What is contained in Schedule D-5E?**

5 A. This adjustment eliminates the effect, at the FPPTY budgeted level, of the bill
6 credit provided to flow-through to customers the effect of the tax repair catch-up
7 adjustment. Consistent with the terms of the Commission approved Joint Petition
8 for Partial Settlement of PECO's 2010 electric base rate case,¹ in 2011, PECO
9 notified the Joint Petitioners in that case of its decision to implement the tax repair
10 method change consistent with the IRS' issuance of an Industry Issue Resolution
11 and Industry Directive for the electric industry. As a result of this change, PECO
12 received a one-time tax repair catch-up deduction that reduced its federal income
13 tax liability by \$82.6 million. The Company deferred the tax benefit attributable
14 to the catch-up adjustment and commenced refunding the benefit to its customers
15 over a seven-year period through a bill credit that was appropriately adjusted in
16 order to convert the tax amount into revenue requirement. In the settlement of the
17 Company last base rate case, it agreed to accrue interest on the remaining balance
18 of the catch-up deduction beginning January 1, 2016. Consequently, the balance
19 being amortized reflects that accrued interest. The Company will continue the
20 refund through the bill credit and expects that it will be completed in 2018.
21 Because the revenue effect of the credit is occurring apart from base rates, its
22 effect on base rate revenue is appropriately eliminated when determining base rate

¹ The background of this matter is set forth in detail in the Joint Petition for Partial Settlement at Docket No. R-2010-2161575, pp. 7-8.

1 revenue for this case. Because the revenue effect was not included in the budget,
2 no adjustment is needed for the FPFTY.

3 **78. Q. Please describe the adjustment shown on Schedule D-5F.**

4 A. This adjustment normalizes revenue the Company budgeted for the Residential
5 and Residential Heating classes for the FPFTY by increasing variable distribution
6 service charge revenue (revenue excluding customer charge and non-reconcilable
7 surcharge distribution revenue) to reflect an additional 0.25 days. The
8 Company's budgeted revenue for the FPFTY is based on 365 days, reflecting the
9 28 calendar days in February 2019. This adjustment normalizes revenue to reflect
10 the average number of days in the month of February over a four-year cycle that
11 includes one leap year. The customer and reconcilable surcharge distribution
12 revenue does not change irrespective of the number of days in a year and,
13 therefore, is not adjusted in this schedule. Additionally, only the Residential and
14 Residential Heating classes have variable distribution service charges that apply
15 to kilowatt hours of usage and, therefore, are sensitive to the number of days of
16 usage in the test year. Column 1 of Schedule D-5F shows the non-customer and
17 non-reconcilable surcharge distribution revenue of the Residential and Residential
18 Heating classes for February 2019. Columns 2 and 3 show the number of days in
19 February 2019 and the normalized number of days in that month over a four-year
20 cycle. The difference is shown in column 4. The adjustment necessary to
21 normalize revenues for 0.25 days is shown, by class and in total, in column 4.

1 **B. Operating Expense Adjustments**

2 **79. Q. Does the Company budget its operating expenses by FERC account?**

3 A. No, as I mentioned previously, it does not. Rather, the Company budgets its
4 operating expenses by cost element or business activity, such as payroll,
5 employee benefits, rent, etc.

6 **80. Q. How were the FPFTY data restated by FERC account for purposes of
7 preparing the Company’s supporting data in this case?**

8 A. The amounts recorded in FERC accounts as of the end of the HTY were analyzed
9 to develop a chart showing charges for each cost element within each FERC
10 account in the transmission function, the distribution function, the Administration
11 and General (“A&G”) transmission function, the A&G distribution function and
12 the A&G general function. After this process was completed, I then distributed
13 the forecasted FPFTY charges by cost elements in those cost categories to the
14 corresponding FERC accounts based upon the ratios experienced in the HTY. For
15 example, I determined how much of the salaries and wages (“S&W”) expensed in
16 the HTY was charged to each FERC account in the HTY distribution function and
17 then distributed the FPFTY forecasted distribution S&W to distribution FERC
18 accounts based on those ratios. This process was used for each cost element
19 category of each function to transform the FPFTY expense by cost element
20 forecast to a FERC-based forecast. This FERC-based forecast is brought forward
21 to Schedule B-4 column 1 to eliminate the non-Pennsylvania jurisdictional
22 amounts, as shown in column 2, in order to isolate the Pennsylvania jurisdictional
23 amounts shown in column 3.

1 **81. Q. Why was it necessary to transform the FPFTY cost-category forecast to a**
2 **FERC-account based forecast?**

3 A. Essentially for two basic reasons. First, the Company's annual reports to the
4 Commission are presented on a FERC-account basis and, therefore, having the
5 FPFTY forecast presented in the same format facilitates a comparison of the
6 FPFTY forecast data to prior years' experience. Second, it was necessary to have
7 the FPFTY data available by FERC account for use by Ms. Ding (PECO
8 Statement No. 6) in her cost of service study.

9 **82. Q. In your opinion, does this process result in a fair presentation of the**
10 **Company's FPFTY forecast expenses by FERC account?**

11 A. Yes, it does.

12 **83. Q. Were each of the pro forma adjustments reflected on Schedule D-3 also**
13 **charged to the appropriate FERC accounts?**

14 A. Yes, they were.

15 **84. Q. Are the various pro forma expense adjustments presented on Schedule D-3**
16 **shown by the type of expense and also by the FERC account distribution?**

17 A. Yes, they are. The expense categories are identified in the headers of the columns
18 on pages 1 and 2 of Schedule D-3, and each adjustment is described in connection
19 with a separate schedule showing its derivation. These adjustments are shown by
20 FERC expense category on Schedule D-4 and also on the Section D summary
21 schedules.

1 **85. Q. Please describe Schedule D-6.**

2 A. Schedule D-6 consists of two pages and shows the calculation of the FPFTY
3 annualization adjustments for S&W. Page 1 contains the forecasted data for the
4 FPFTY summarized by FERC account categories showing a total to be expensed
5 of \$141.7 million on line 14, columns 2 and 4. Column 5 shows the annualization
6 adjustment of \$5.1 million distributed to the FERC expense categories, while
7 column 6 lists the pro forma amounts for S&W expense totaling \$146.8 million,
8 as shown on line 14, and an annualization adjustment to increase S&W by 3.6
9 percent as shown on line 15. The adjustment of \$5.1 million is reflected on
10 Schedule D-3, column 3, on lines 24 to 29.

11 **86. Q. How was the annualization adjustment derived?**

12 A. The calculation is shown on page 2 of Schedule D-6. In short, the adjustment
13 annualizes budgeted S&W expense to reflect the number of employees at the end
14 of the FPFTY and certain wage increases to become effective during the FPFTY
15 or shortly after the FPFTY. More specifically, I have annualized: (1) the 2.5
16 percent wage increase forecasted to be effective on March 1, 2019 (lines 5 to 7 in
17 column 3); (2) the projected 2.5 percent wage increase for union employees to be
18 effective on January 1, 2020 (lines 9 to 11 in column 2); and (3) the projected 2.5
19 percent wage increase for non-union employees to be effective on March 1, 2020
20 (lines 9 to 11 in column 3).

1 **87. Q. Please explain the adjustment shown on lines 12 to 14.**

2 A. This adjustment normalizes a one-item cash payment to union employees that is
3 made in connection with the ratification of new union contracts on an
4 approximately six-year basis. The portion of the payment that was expensed
5 (\$1.1 million) was split between electric distribution, transmission and gas
6 operations, and the amount allocated to electric distribution operations (\$822,000)
7 was divided by six to reflect the six-year term of the contract. The resulting
8 amount of \$137,000 shown on line 14, column 5, was added to the pro forma
9 adjustment for S&W.

10 **88. Q. Please explain the calculations shown on lines 17-21 of Schedule D-6, page 2.**

11 A. These calculations annualize an increase in the number of employees during the
12 FPFTY. As shown in line 17, column 3, the projected number of Company
13 employees at the FPFTY year-end is 1,898. The average number of employees
14 during the FPFTY is 1,884, and it was the latter figure that the Company included
15 as S&W in its budget as shown on line 4. The detailed calculation of the average
16 number of employees included in the budget expense level is shown on page 1 of
17 Schedule D-8, in lines 7 to 18. The increase in employees of 14 on line 19 was
18 then multiplied by average annual S&W per employee on line 20 to determine the
19 total annualization adjustment to S&W due to the increase in number of
20 employees of \$1.1 million as shown on line 21.

1 **89. Q. What is the total pro forma adjustment for S&W expense for the FPFTY?**

2 A. The total amount is \$5.1 million, which is an increase of 3.6 percent from the
3 Company's S&W budget for FPFTY, as shown on lines 23 and 24, respectively.

4 **90. Q. Please describe Schedule D-7 of PECO Exhibit BSY-1.**

5 A. Schedule D-7 shows the adjustment to normalize rate case expense. The
6 Company expended approximately \$159,000 on this filing during 2017 (line 4)
7 and has budgeted an additional \$2.4 million (line 8) during 2018. This total, \$2.6
8 million (line 9), is normalized over a period of three years as shown on line 10,
9 column 1, which results in a total estimated normalized annual cost for this case
10 of approximately \$867,000, as shown on line 10, column 4.

11 **91. Q. Please describe Schedule D-8 of PECO Exhibit BSY-1.**

12 A. The top half of Schedule D-8 annualizes the non-pension employee benefits
13 expense to reflect the full year's level of costs associated with the number of
14 employees during the FPFTY. The annualization, reflecting an increase of
15 \$144,000 in non-pension benefit expense, was derived by using the increase in the
16 number of employees of 14, on line 4, and the budgeted average non-pension
17 benefit expense per employee of \$10,000 on line 3.

18 **92. Q. Please explain how you calculated the change in number of employees to a
19 year-end level on Schedule D-8.**

20 A. I calculated a twelve-month average of employees reflected in the Company's
21 budget (1,884) and compared it to the number of employees reflected in the

1 budget at December 31, 2019 (1,898). The difference of fourteen employees is
2 shown on line 21.

3 **93. Q. What is contained in PECO Exhibit BSY-1 Schedule D-9?**

4 A. Schedule D-9 shows the calculation of the Company's claim for pension expense,
5 which is based on a five-year average of actual contributions to its pension plan.
6 The portion of the pension cost assigned to electric distribution operating expense
7 in the FPFTY is \$13.1 million, as shown on line 12. Accordingly, an adjustment
8 of \$7.4 has been made to the Company's FPFTY budget amount, as shown on line
9 14, and the adjustment amount was brought forward to Schedule D-3, column 6,
10 line 29.

11 **94. Q. What is presented on Schedule D-10 of PECO Exhibit BSY-1?**

12 A. Schedule D-10 calculates an adjustment to the Company's budgeted uncollectible
13 accounts expenses. Lines 1 to 4 calculate net uncollectible accounts charged off,
14 excluding CAP in-program arrearage write-offs, as a percentage of total tariff
15 revenue, based on an average of annual data for the period 2015-2017. That
16 percentage was used to adjust the amount of uncollectible accounts expense in the
17 budget to conform to the method historically used by the Commission for this
18 expense. The resulting 0.89 percent shown on line 4, column 4, of Schedule D-10
19 is applied to the pro forma revenues at present rates for the FPFTY to calculate
20 the general pro forma uncollectible accounts expense of \$28.6 million shown in
21 column 5 on line 8. A three-year average of pre-program arrearages ("PPA")
22 associated with the CAP program, which are not included in other accounts, was
23 added to the general uncollectible accounts expense. The PPA average is \$8.2

1 million, as shown on line 12 in column 5. The total pro forma amount for
2 uncollectible account expenses at present rates for the FPFTY is \$36.7 million,
3 which is a net increase of \$11.7 million, as shown on line 15 and brought forward
4 to page 1 of Schedule D-3 (column 7, line 26). In addition, the 0.89 percent
5 write-off rate is used in determining the level of uncollectible accounts expense at
6 proposed rates, as shown in the reference column on line 17 of Schedule D-2.

7 **95. Q. Please describe Schedule D-11.**

8 A. Schedule D-11 shows PECO's claim to recover a portion of the in-program
9 arrearage ("IPA") forgiveness approved in the Company's CAP Design
10 Proceeding at Docket No. M-2012-2290911. The amount the Company is
11 claiming for recovery was calculated in accordance with the terms of the
12 settlement of its 2015 base rate case, which provides, in broad summary, that
13 PECO may, in this case, recover from all residential customers one-third of the
14 IPA amounts that are forgiven. The IPA forgiveness program and the formula for
15 calculating the amount PECO may claim for recovery in this case are explained in
16 more detail in the direct testimony of Mark Kehl (PECO Statement No. 7).

17 **96. Q. Please describe the pro forma adjustment on Schedule D-12.**

18 A. The adjustment shown on Schedule D-12 captures the interest expense that the
19 Company must pay on customer deposits. Since the average balance of customer
20 deposits is a reduction to measures of value, the interest expense is included as a
21 pro forma expense for the FPFTY. The interest for residential customer deposits
22 was calculated using an annual rate of interest of 4.0 percent and a monthly rate of
23 0.33%. An annual rate of 1.41 percent (a monthly rate of 0.12%) was used for

1 commercial and industrial customers. The total pro forma expense of \$1.3 million
2 is shown on Schedule D-12, line 29 and brought forward to Schedule D-3, page 2.

3 **97. Q. Please describe the pro forma adjustment on Schedule D-13.**

4 A. This adjustment shown on line 11 reflects an increase of \$15.9 million to FPFTY
5 budget expenses for storm damage restoration expenses. PECO is proposing, for
6 ratemaking purposes, to normalize storm damage expense based on a sixty-month
7 rolling average of historic storm damage expense. A sixty-month rolling average
8 includes a period long enough to reflect appropriate levels of expense associated
9 with normal storm events, major storms and extraordinary storms. In both its
10 2010 and 2015 base rate cases, the Company claimed storm damage expenses that
11 were normalized on the basis of a sixty-month historical average of actual storm
12 expenses.

13 **98. Q. Please explain what is shown on Schedule D-14.**

14 A. This Schedule was left blank intentionally.

15 **99. Q. Please explain what is shown on Schedule D-15.**

16 A. Schedule D-15 shows PECO's claim to amortize over three years its allocable
17 share of the costs to achieve the merger savings that were produced by the merger
18 of PECO's parent, Exelon Corporation, with Pepco Holdings, Inc. in 2016. As
19 explained by Mr. Barnett in PECO Statement No. 2, the merger produced
20 significant savings and PECO received and continues to receive its allocable share
21 of those savings, which are reflected in the budget data that were used to develop
22 its claims in this case. However, costs were also incurred by Exelon to integrate

1 the merged companies in order to produce the merger savings flowing through to
2 PECO. And, as Mr. Barnett also explains, the merger savings substantially
3 exceed the costs to achieve. Because PECO – and its customers – receive the
4 benefit of PECO’s allocable share of merger savings, it is appropriate that PECO
5 should bear (and recover in electric distribution rates) the costs to achieve those
6 savings that were properly allocated to it.

7 **C. Taxes – Other Than Income Taxes**

8 **100. Q. Please describe Schedule D-16 of PECO Exhibit BSY-1.**

9 A. Schedule D-16 contains 3 pages. Page 1 is a summary showing the budgeted
10 amounts for the FPFTY (column 2) for the total Company, adjustments to
11 eliminate the non-Pennsylvania jurisdictional amounts (column 3), the total pro
12 forma adjustments (column 5), and the pro forma expenses claimed in this case
13 (column 6). The calculations for payroll-related changes are made on Schedule D-
14 16, page 2, while the changes in the gross receipts tax (“GRT”) are shown on page
15 3. The increase in payroll taxes, shown on page 2, lines 1 to 4, was calculated
16 using the ratio of tax expense to payroll expense in the FPFTY forecast applied to
17 the payroll tax expense for the FPFTY, which is an increase of \$364,000, as shown
18 on line 4. This amount is then reflected on page 1 in column 5, line 9. The
19 adjustment to decrease GRT by \$7.3 million shown on line 15, in column 5 of page
20 1, is calculated on page 3. Total pro forma taxes other than income are \$140.7
21 million, as shown on Schedule D-16, page 1, line 12, column 6.

1 **101. Q. Did you make an adjustment to recognize the additional GRT attributable to**
2 **the revenue increase allowed by the Commission in this proceeding?**

3 A. Yes. As will be described in connection with PECO Exhibit BSY-1, Schedule D-
4 19, the incremental GRT is recovered through the application of the Gross
5 Revenue Conversion Factor (“GRCF”) used to determine the amount of revenue
6 required to provide the increase in net income claimed by PECO.

7 **D. Depreciation Expense**

8 **102. Q. Please describe PECO Exhibit BSY-1, Schedule D-17, pages 1 to 2.**

9 A. The Company’s budgeted depreciation expense was developed and is presented by
10 Mr. Bailey (PECO Statement No. 4). The adjustment set forth on Schedule D-17
11 annualizes FPFTY depreciation expense levels to reflect a full year’s depreciation
12 for plant added during the FPFTY. PECO’s total depreciation expense
13 annualization adjustment for electric distribution plant (including allocated general
14 plant) is \$11.2 million, as shown on Schedule D-17, page 1, line 50, column 5.
15 Included in that amount is the FPFTY annualization adjustment for the
16 depreciation of common plant of \$2.9 million, as shown in column 5 on line 49 of
17 page 1, which is calculated on page 2 of Schedule D-17. The adjustments for the
18 electric distribution plant depreciation and the common plant depreciation are
19 shown on Schedule D-3 page 2, column 17 on line 67. As indicated at the bottom
20 of page 1 of Schedule D-17, lines 43 to 45, I have removed the \$1.0 million of the
21 depreciation expense annualization adjustment attributable to transmission
22 operations.

1 **E. Income Taxes**

2 **103. Q. Please describe the income tax calculation shown on PECO Exhibit BSY-1,**
3 **Schedule D-18, page 1.**

4 A. This schedule calculates the pro forma income tax expense for the FPFTY at
5 present and proposed rates, as set forth in columns 3 and 5, respectively. Line 1
6 shows the revenue at present rates, the revenue increase (with the related late
7 payment charge increase) and revenue at proposed rates. Line 2 shows the total
8 operating expenses at present rates, changes related to the revenue increase and at
9 the proposed rates from Schedule D-1. Line 3 shows the operating income before
10 income taxes. Synchronized interest expense is calculated on lines 4 to 6 using the
11 total measures of value for the FPFTY on line 4 and the weighted cost of debt
12 recommended by Mr. Moul (PECO Statement No. 5) on line 5. The resulting
13 interest expense on line 6 is used to reduce the taxable income to the amount
14 shown on line 7.

15 In compliance with Commission practice, the difference between accelerated tax
16 depreciation (line 8) and pro forma book depreciation (line 9) is used to adjust the
17 state taxable income as shown on line 10 to reflect the fact that the effects of
18 accelerated depreciation are flowed through for state income tax purposes. In
19 addition, there are adjustments to other tax-book differences and flow-through
20 amounts as shown on lines 11 to 16. These adjustments result in the net reduction
21 of state taxable income from line 7 to line 17. The statutory state income tax rate
22 of 9.99 percent was used to determine the pro forma current state income tax
23 expense shown on line 18. Federal income tax expense is calculated on lines 21

1 to 31 with a Federal income tax rate of 21%. Line 33 shows the total current State
2 and Federal income tax expense before the amount for deferred income taxes is
3 calculated. Lines 34 to 40 reflect the Federal and State deferred income taxes.

4 The total income tax expense before other adjustments is shown on line 41 at
5 present and proposed rates in columns 3 and 5 respectively, including the flow-
6 back of “excess” ADIT resulting from the lower Federal corporate income tax rate
7 under the TCJA. The other adjustments include the amortization of the
8 investment tax credit (“ITC”) for electric distribution plant and for the electric
9 distribution portion of the common plant, as shown on lines 43 and 44,
10 respectively.

11 **104. Q. Please explain the nature and calculation of the ITC amortization.**

12 A. The ITC reflects tax credits used by the Company in years prior to 1987, the
13 amortization of which will not have been completed by the end of the FPFTY.
14 While the availability of the ITC ended in 1987, the credit has been amortized over
15 the useful lives of the assets that generated it. The amortization for 2019 reduces
16 income tax expense at both present and proposed rates, shown on Schedule D-18,
17 page 4, and brought forward to Schedule D-18, page 1, lines 43 and 44.

18 **105. Q. Please explain the adjustment to flow-back “excess” ADIT.**

19 A. As I previously explained, the TCJA reduced the Federal corporate income tax
20 rate from 35% to 21% effective January 1, 2018, and the Company’s ADIT
21 balances as of December 31, 2017 reflect taxes that were deferred at the higher

1 corporate income tax rates in effect prior to January 1, 2018. For ADIT that
2 relates to tax-book timing differences associated with utility plant subject to the
3 normalization requirements of the Internal Revenue Code, PECO is required to
4 flow-back the difference between its ADIT balance and what its ADIT balance
5 would have been if the deferrals had been made at the current 21% corporate tax
6 rate (the so-call “excess” ADIT) over the remaining lives used in its books of
7 account for the property that gave rise to the reserve for deferred taxes. As
8 previously explained, the Company used the ARAM, as defined by applicable
9 IRS regulations, for this purpose. Shorter flow-back periods are permissible for
10 property that is not subject to normalization requirements. As I also explained
11 previously, PECO has recorded “excess ADIT” in a regulatory liability account.
12 Schedule D-18, page 1, line 37, reflects the annual amount of the regulatory
13 liability to be flowed-back.

14 **106. Q. Has PECO included a consolidated income tax adjustment (“CTA”) in its**
15 **calculation of Federal income tax expense?**

16 A. No, it has not, because such an adjustment is no longer authorized under Section
17 1301.1(a), which was added to the Public Utility Code by Act 40 of 2016. Act 40
18 became law on June 12, 2016 and was effective sixty days later (August 11, 2016)
19 to “all cases where the final order is entered after the effective date of [Section
20 1301.1].” Consequently, Section 1301.1 applies to this case. Section 1301.1(a)
21 specifies how the Commission is to compute income tax expense for ratemaking
22 purposes. Section 1301.1(b) states how any incremental internally-generated

1 funds produced by the application of Section 1301.1(a) should be used by an
2 affected utility pending the December 31, 2015 “sunset” of Section 1301.1(b).

3 **107. Q. What does Section 1301.1 direct the Commission to do in calculating income**
4 **tax expenses for ratemaking purposes?**

5 A. In summary, Section 1301.1(a) provides that current and deferred income taxes of
6 a Pennsylvania utility are to be calculated for ratemaking purposes based only on
7 the income, deductions and credits of the utility itself. Therefore, the
8 Commission may not take into account income, deductions (including taxable
9 losses) or credits of the utility’s parent or affiliated companies with which it joins
10 in filing a consolidated Federal income tax return. This is generally referred to as
11 a “stand-alone” computation of income tax expense because it reflects income tax
12 expense of the utility “standing alone” and without regard to taxable income,
13 deductions or credits of other companies in the same consolidated group.

14 **108. Q. How does Section 1301.1(a) change prior Commission practice?**

15 A. Section 1301.1(a) terminates the practice of making a CTA when calculating a
16 utility’s Federal income taxes for ratemaking purposes in Pennsylvania. As
17 directed by prior decisions of Pennsylvania appellate courts, the Commission,
18 until Act 40 became effective, was required to calculate CTAs employing the
19 “Modified Effective Tax Rate Method.” Under the Modified Effective Tax Rate
20 Method, the consolidated tax savings generated by the non-regulated companies
21 of a corporate group were allocated to the regulated and non-regulated members
22 of the group having positive taxable incomes. CTAs, therefore, captured a
23 portion of the tax benefits of deductions – including taxable losses – of

1 unregulated affiliates of public utilities and gave those benefits to the utilities’
2 customers (as lower income tax expense than the utilities would have on a “stand-
3 alone” basis) even though the utilities’ customers did not pay the expenses that
4 gave rise to those tax benefits. With the enactment of Act 40, Pennsylvania joins
5 the majority of other jurisdictions, including the Federal Energy Regulatory
6 Commission, that do not make CTAs for ratemaking purposes.

7 **109. Q. What does Section 1301.1(b) provide?**

8 A. Section 1301.1(b) states as follows:

9 If a differential accrues to a public utility resulting from applying
10 the ratemaking methods employed by the commission prior to the
11 effective date of subsection (a) for ratemaking purposes, the
12 differential shall be used as follows:

13 (1) fifty percent to support reliability or infrastructure
14 related to the rate-base eligible capital investment as determined by
15 the commission; and

16 (2) fifty percent for general corporate purposes.

17 Section 1301.1(b) will no longer apply after December 31, 2025.

18 **110. Q. Have you calculated the “differential” in income taxes referenced in Section**
19 **1301.1(b)?**

20 A. Yes, page 3 of Schedule D-18 sets forth the computation of a CTA using the
21 Modified Effective Tax Rate Method and data for tax years 2012 through 2016,
22 which are the most recent five years for which tax returns have been filed. Line
23 12 shows the “differential” corresponding to the CTA calculated in the manner I
24 described above.

1 **111. Q. How does PECO propose to invest 50% of the differential in rate base-**
2 **eligible reliability projects or other infrastructure improvements?**

3 A. PECO's capital budget calls for overall electric plant additions of approximately
4 \$514.0 million in 2018 and \$586.2 million in 2019. As stated in Mr. Innocenzo's
5 testimony, these investments will target reliability projects and other
6 infrastructure improvements. These infrastructure improvements will support
7 PECO's compliance with Act 40.

8 **112. Q. What is PECO's total income tax expense claim in this proceeding?**

9 A. As shown on Schedule D-18, page 1, line 49, column 3, pro forma income tax
10 expense at present rates equals \$36.2 million. The increment for income tax
11 expense associated with the proposed revenue increase is shown in column 4, in
12 the amount of \$38.4 million, and the total pro forma income tax expense at
13 proposed rates of \$62.4 million is shown in column 5.

14 **113. Q. Please explain Schedule D-19.**

15 A. This schedule shows the calculation of the GRCF used on Schedule A-1 to
16 determine the revenues required to achieve the overall rate of return requested by
17 PECO. The conversion factor captures the additional late payment revenue,
18 uncollectible accounts expense, GRT, regulatory fees and Federal and State
19 income taxes attributable to the additional revenues resulting from the proposed
20 rate increase.

1 **V. FUTURE TEST YEAR AND HISTORIC TEST YEAR**

2 **114. Q. Please describe the process used to prepare the pro forma FTY and HTY**
3 **presentations in PECO Exhibit BSY-2 and PECO Exhibit BSY-3,**
4 **respectively.**

5 A. The basic process was the same as described in connection with PECO Exhibit
6 BSY-1, except I used budgeted data for 2018 for the FTY and actual recorded data
7 for the HTY 2017 as the starting point for each exhibit. As with the FPFTY, I
8 reviewed the budgeted data for the FTY and recorded data for the HTY and, where
9 appropriate, made pro forma adjustments. In addition, I used data from PECO
10 Exhibit BSY-1 as the basis for several of the pro forma amounts used in PECO
11 Exhibits BSY-2 and BSY-3.

12 **115. Q. What assumptions did you make to determine what pro forma adjustments**
13 **would be necessary for the FTY and HTY?**

14 A. I included pro forma adjustments that reflected the annualization and
15 normalization of FTY and HTY elements and adjustments for future events that
16 have impacted the FPFTY. For example, I have annualized S&W expense for
17 increases and adjusted for the year-end number of employees, as I did in the
18 FPFTY. The pro forma adjustments for the FTY and HTY are numbered
19 consistently with the adjustments for the FPFTY. For example, the adjustment for
20 S&W is on Schedule D-6 in all three test years to facilitate reference between the
21 FPFTY, the FTY and the HTY. Where there is no adjustment required for the

1 FTY or the HTY, the correlation simply shows that further adjustment is not
2 applicable.

3 **116. Q. Referring now to PECO Exhibit BSY-2, for the FTY, what is contained on**
4 **Schedule A-1?**

5 A. Schedule A-1 shows a summary of the measures of value on lines 1 to 12,
6 operating revenues and expenses and calculated rates of return at present and
7 proposed rates on lines 14 to 23, and the revenue increase required on lines 24 to
8 29.

9 **117. Q. What is contained on Schedules B-1 to B-5?**

10 A. These schedules contain budgeted financial data for the FTY, with the separation
11 of the total electric operating income statement into non-Pennsylvania and
12 Pennsylvania jurisdictional amounts.

13 **118. Q. Please describe Schedules B-6 and B-7.**

14 A. These two schedules contain the FTY pro forma capital structure and rate of return
15 developed by Mr. Moul (PECO Statement No. 5). As shown on lines 1 to 3 of
16 Schedule B-7, the Company is using its expected capital structure at the end of the
17 FTY and cost rates as shown on Schedule B-7.

18 **119. Q. Please describe Schedule C-1.**

19 A. Schedule C-1 lists the measures of value components which have been adjusted to
20 reflect only the distribution portion of each element. The measures of value total
21 for the FTY is \$4.5 billion, as shown on line 13 in column 6.

1 **120. Q. What is contained in Schedule C-2?**

2 A. Schedule C-2 consists of five pages and shows the utility plant in service balances
3 at December 31, 2018 for the Company's distribution operations, as well as the
4 additions, retirements and adjustments for the FTY. Page 1 contains the summary
5 of pro forma plant in service balances by plant grouping. Page 2 shows the plant
6 in service by FERC accounts. Pages 3 and 4 show the additions to plant and
7 retirements from plant during the FTY. Finally, adjustments to plant are reflected
8 on page 5. The total pro forma plant in service at the end of the FTY is \$6.8
9 billion and is shown on line 10, column 4 of Schedule C-2, page 1.

10 **121. Q. Please describe Schedule C-3.**

11 A. Schedule C-3 contains four pages and presents the accumulated depreciation at
12 December 31, 2015. These pages show the pro forma balances by FERC account
13 developed using the same procedures employed for the FPFTY. The accumulated
14 depreciation at the end of the FTY is \$1.9 billion, as shown on page 1, line 11,
15 column 4.

16 **122. Q. What is contained in Schedule C-4?**

17 A. Schedule C-4 consists of 10 pages that show the calculation of the CWC allowance
18 for the FTY of \$148.5 million (line 5). The information for average prepayments
19 on line 4 is the same as utilized in PECO Exhibit BSY-1, because the FPFTY
20 claim is based on the thirteen-month average for the period ended December 31,
21 2017. In addition to the prepayments, the methodology used to calculate the lag
22 periods for revenue, payroll, pension expense, electric purchases, transmission

1 purchases and other disbursements utilized in PECO Exhibit BSY-1 were also used
2 in the FTY calculation.

3 **123. Q. Please describe page 2 of 10 of Schedule C-4.**

4 A. Page 2 provides a summary of the calculations for each of the elements of the
5 CWC for the FTY. The expenses in column 2 and those included in the
6 determination of the lead-lag amounts for taxes, interest and preferred dividends
7 are the pro forma amounts for the FTY while the prepayment amount is the
8 thirteen-month average of month-end balances through December 31, 2017. The
9 resulting \$148.5 million of CWC shown on line 19 is brought forward to Schedule
10 A-1 in the calculation of the measures of value.

11 **124. Q. Please describe pages 3 to 10 of Schedule C-4.**

12 A. These pages show the calculations of various leads and lags and working capital
13 requirements for the FTY following the same procedures used for the FPFTY as
14 described in connection with PECO Exhibit BSY-1, Schedule C-4. While the
15 amounts for the FTY expenses vary from those in the FPFTY, the procedures
16 followed to determine the lead/lag periods applied to those expense levels are the
17 same as those described in connection with the same PECO Exhibit BSY-1
18 schedules.

19 **125. Q. What is contained on Schedule C-5?**

20 A. Schedule C-5 shows the Company claimed pension asset to be included in the
21 measures of value. The procedures to determine the asset were the same as those
22 described with respect to PECO Exhibit BSY-1 Schedule C-5, except that the

1 pension asset balance for the FTY reflects data through December 31, 2018,
2 which, on a net aggregate basis, is \$90.6 million, as shown on line 5.

3 **126. Q. Please describe the calculations on Schedule C-6.**

4 A. These calculations show the ADIT for the FTY. The procedures followed to
5 determine FTY ADIT were the same as those utilized for the ADIT calculation at
6 the end of the FPFTY except that year-end December 31, 2017 balances were
7 used. The resulting ADIT of \$527.8 million for the total of electric distribution
8 utility plant and the electric distribution portion of the common plant for the FTY
9 is shown on line 15.

10 **127. Q. Please describe the data presented on Schedules C-7, C-9 and C-11.**

11 A. The data on these three schedules are the same as the data presented and described
12 in connection with the comparable schedules in PECO Exhibit BSY-1, since the
13 same thirteen-month period was used.

14 **128. Q. Please describe the calculation of common plant shown on Schedule C-8.**

15 A. Schedule C-8 shows the electric portion of common plant at the end of December
16 31, 2018. The gross common plant at December 31, 2018 is \$802.8 million, as
17 shown on line 8 in column 1. Of this amount, \$561.0 million is allocated to electric
18 distribution operations, as shown in column 3. This gross plant amount is reduced
19 by the accumulated depreciation shown on line 14, yielding the net common plant
20 amount attributable to electric distribution operations at December 31, 2018 of
21 \$309.9 million, as shown on line 17.

1 **129. Q. Please describe Schedule C-10.**

2 A. This schedule presents the unamortized AMR balance at the end of the FTY. The
3 procedures followed to determine that amount are the same as those used for the
4 FPFTY except that year-end December 31, 2018 balances were employed.

5 **130. Q. What is presented on Schedule D-1?**

6 A. Schedule D-1, shows the net operating income at present rates for the FTY, the pro
7 forma revenue deficiency and the pro forma required revenue level.

8 **131. Q. Please describe Schedule D-2.**

9 A. Schedule D-2 shows revenue and expenses budgeted for the FTY, pro forma
10 adjustments and the pro forma revenue and expense amounts at present rates. This
11 schedule summarizes the adjustments that are detailed on Schedules D-3 and D-5
12 and explained in connection with other supporting schedules to be described later
13 in my testimony.

14 **132. Q. Please describe Schedule D-3.**

15 A. Schedule D-3 contains two pages which present a summary of each of the pro
16 forma adjustments made to revenues and operating expenses, including
17 depreciation and taxes-other-than-income taxes. Each of the adjustments will be
18 described in connection with the specific schedule containing the calculation of the
19 adjustment.

1 **133. Q. What is contained in Schedule D-4?**

2 A. This schedule contains two pages and shows the budgeted and pro forma
3 adjustment amounts for the FTY by revenue category and by FERC account for
4 expenses.

5 **134. Q. Please describe Schedule D-5.**

6 A. Schedule D-5 shows the pro forma adjustments to the FTY budgeted revenue.
7 Each of the listed adjustments is discussed in connection with Schedules D-5F to
8 D-5G. All these adjustments were prepared using the same methodology as
9 described in connection with PECO Exhibit BSY-1.

10 **135. Q. Please describe the adjustment on Schedule D-5A.**

11 A. The adjustment shown on Schedule D-5A annualizes revenue for customer growth
12 during the FTY. The process utilized is the same as described in connection with
13 the same adjustment for the FPFTY on PECO Exhibit BSY-1, Schedule D-5A.

14 **136. Q. What is the adjustment shown on Schedule D-5B?**

15 A. The adjustment shown on Schedule D-5B annualizes CAP discounts for the FTY.
16 The process utilized is the same as described in connection with the same
17 adjustment for the FPFTY shown on Schedule D-5B of PECO Exhibit BSY-1.

18 **137. Q. Please describe the adjustment shown on Schedule D-5C.**

19 A. This adjustment reflects the average of the revenue losses associated with the load
20 reductions mandated by Act 129. The Company is using the same calculation for
21 the FTY that was used for the corresponding adjustment for the FPFTY.

1 **138. Q. Please describe the adjustment shown on Schedule D-5D.**

2 A. Similar to Schedule D-5D of PECO Exhibit BSY-1, this schedule removes the
3 Energy Efficiency and Conservation program costs and related cost recovery that
4 was included in the Company's FTY budget. The Company will continue to use
5 the approved surcharge mechanism to recover its Energy Efficiency and
6 Conservation program related costs and, as consequence, the costs and revenues
7 related to the surcharge are properly removed from base rate revenue and base rate
8 revenue requirement.

9 **139. Q. Please describe the adjustment on Schedule D-5E.**

10 A. Similar to the corresponding schedule in PECO Exhibit BSY-1, this schedule
11 removes from the Company's FTY budget the effect of the amortization of the
12 Company's tax repair catch-up deduction refund, which is being provided to
13 customers by means of a bill credit separate from base rates. The Company will
14 continue the refund to customers through the bill credit mechanism until all of the
15 revenue effects of the deferred tax repair catch-up deduction are refunded in 2019.

16 **140. Q. Please describe the adjustment shown on Schedule D-5F.**

17 A. This schedule shows the development of a normalized level of distribution revenue
18 based on the average number of days per year in a four-year cycle.

19 **141. Q. Please describe Schedule D-6.**

20 A. Schedule D-6 annualizes S&W for the FTY. Page 1 shows the budgeted amounts
21 in column 2 and the pro forma adjustment in column 5 by FERC expense category.

1 Page 2 shows the calculation of the annualization adjustments of S&W and the
2 normalization of the union contract ratification payment, which follows the same
3 procedures described in connection with the FPFTY using the data from FTY for
4 the wage increases.

5 **142. Q. What is contained on Schedule D-7?**

6 A. Schedule D-7 normalizes rate case expenses using the same recorded and
7 estimated amounts used in the FPFTY calculation on PECO Exhibit BSY-1,
8 Schedule D-7.

9 **143. Q. Please describe the adjustments shown on Schedule D-8.**

10 A. This adjustment, which annualizes non-pension benefits related to the change in
11 number of employees during the FTY, was calculated using the same procedures
12 used for the comparable adjustment for the FPFTY and described in connection
13 with PECO Exhibit BSY-1, Schedule D-8.

14 **144. Q. Please describe the adjustments shown on Schedule D-9.**

15 A. This adjustment for pension expense and to annualize non-pension benefits follows
16 the same procedures used for the FPFTY and described in connection with PECO
17 Exhibit BSY-1, Schedule D-9.

18 **145. Q. Are the adjustments shown on Schedules D-10 to D-13, D-15 and D-16**
19 **similar to the adjustments included in PECO Exhibit BSY-1 and described in**
20 **connection with the schedules presented in that exhibit?**

21 A. Yes, they are.

1 **146. Q. Please describe Schedule D-17.**

2 A. Schedule D-17 presents the pro forma adjustment for depreciation to annualize
3 depreciation expense for plant amounts at the end of the FTY, similar to the pro
4 forma adjustment described in connection with the pro forma adjustment in PECO
5 Exhibit BSY-1.

6 **147. Q. Please describe the income tax calculations on Schedule D-18.**

7 A. This schedule shows the calculation of the pro forma income tax expense for the
8 FTY reflecting the revenue, expenses and measures of value included in the pro
9 forma present rate data for the Company and a 21% Federal corporate tax rate. In
10 addition to the tax depreciation amounts, the ITC amortization was calculated, as
11 shown on page 4 of Schedule D-18. Because the TCJA's tax rate reduction applies
12 in 2017, the flow-back of "excess" ADIT was reflected in calculating income tax
13 expense. The total calculated income tax expense shown on line 49 was used in
14 the calculation of the overall revenue increase requirement shown on Schedule A-
15 1.

16 **148. Q. Referring now to PECO Exhibit BSY-3, for the HTY, what is contained on**
17 **Schedule A-1?**

18 A. Schedule A-1 shows a summary of the measures of value on lines 1 to 13,
19 operating revenue and expenses and calculated rates of return at present and
20 proposed rates on lines 14-23, and the revenue increase required on lines 24-29.

1 **149. Q. What is contained on Schedules B-1 to B-5?**

2 A. These schedules contain recorded financial data for the HTY, with the separation
3 of the total electric operation income into non-Pennsylvania and Pennsylvania
4 jurisdictional amounts.

5 **150. Q. Please describe Schedules B-6 and B-7.**

6 A. These two schedules contain the pro forma capital structure and rate of return used
7 for the HTY, which are supported by Mr. Moul. As shown on lines 1 to 3 of
8 Schedule B-7, the Company is using its capital structure at the end of the HTY and
9 cost rates as shown on Schedule B-7.

10 **151. Q. Please describe Schedule C-1.**

11 A. Schedule C-1 lists the measures of value components which have been adjusted to
12 reflect the distribution portion of each element. The measures of value total for the
13 HTY is \$4.2 billion, as shown on line 13 in column 6.

14 **152. Q. What is contained in Schedule C-2?**

15 A. Schedule C-2 consists of five pages and shows the utility plant in service balances
16 at December 31, 2017 for the Company's distribution operations, as well as the
17 adjustments for the HTY. Page 1 contains the summary of pro forma plant in
18 service balances by plant grouping. Page 2 shows the plant in service by FERC
19 account. Pages 3 and 4 are left blank intentionally because they reflect schedules
20 that are used for the FTY and FPFTY but are not relevant to the HTY. Finally,
21 adjustments to plant are reflected on page 5 of Schedule C-2. The total pro forma

1 plant in service at the end of the HTY (\$6.4 billion) is shown on line 10 in column
2 4 of Schedule C-2, page 1.

3 **153. Q. Please describe Schedule C-3.**

4 A. Schedule C-3 contains four pages and shows the accumulated depreciation at
5 December 31, 2017. These pages reflect the pro forma balances by FERC account
6 following the same procedures used in the FPFTY for the HTY. The accumulated
7 depreciation at the end of the HTY is \$1.8 billion, as shown on line 42, page 2.

8 **154. Q. What is contained in Schedule C-4?**

9 A. Schedule C-4 contains ten pages that show the calculation of the CWC allowance
10 for the FTY of \$147 million (line 5). The information for average prepayments
11 shown on line 4 is the same as that utilized in PECO Exhibit BSY-1, because the
12 FPFTY claim is based on the thirteen-month average for the period ended
13 December 31, 2017. In addition to the prepayments, the methodology used to
14 calculate the lag periods for revenue, payroll, pension expense, electric purchases,
15 transmission purchases and other disbursements utilized in PECO Exhibit BSY-1
16 were also used in the HTY calculation.

17 **155. Q. Please describe page 2 of 10 of Schedule C-4.**

18 A. Page 2 provides a summary of the calculations for each of the elements of the
19 CWC for the HTY. The expenses in column 2 and those included in the
20 determination of the lead-lag amounts for taxes, interest and preferred dividends
21 are the adjusted pro forma amounts for the HTY, while the prepayment amount is
22 the thirteen-month average through December 31, 2017. The resulting \$147

1 million of CWC shown on line 19 is brought forward to Schedule A-1 in the
2 calculation of the measures of value.

3 **156. Q. Please describe what is shown on pages 3 to 10 of Schedule C-4.**

4 A. These pages show the calculations of various leads and lags and working capital
5 requirements for the HTY following the same procedures used for the FPFTY as
6 described in connection with PECO Exhibit BSY-1, Schedule C-4. While the
7 amounts for the HTY expenses vary from those in the FPFTY, the procedures
8 followed to determine the lead/lag periods applied to those expense levels are the
9 same and were described in connection with the same schedules in PECO Exhibit
10 BSY-1.

11 **157. Q. What is contained in Schedule C-5?**

12 A. Schedule C-5 shows the Company's claim for a pension asset included in its
13 measures of value. The procedures to determine the asset are the same as
14 described in connection with PECO Exhibit BSY-1, Schedule C-5. The only
15 difference is that the pension asset balance for the HTY reflects data through
16 December 31, 2017 and on a net aggregate basis is \$89.7 million, as shown on line
17 3.

18 **158. Q. Please describe the calculations shown on Schedule C-6.**

19 A. These calculations show the ADIT for the HTY. The procedures followed to
20 determine HTY ADIT were the same as those utilized for the ADIT calculation at
21 the end of the FPFTY, except that year-end December 31, 2017 balances were
22 used. The resulting ADIT of \$506 million for the total of electric distribution plant

1 and the electric distribution portion of common plant for the HTY is shown on
2 line9. As shown on line 8, \$337 million of “excess ADIT” has been removed from
3 ADIT and recorded as a regulatory liability for the reasons I previously explained
4 in connection with similar accounting for “excess ADIT” for the FPPTY.

5 **159. Q. Please describe the data presented on Schedules C-7, C-9 and C-11.**

6 A. The data on these three schedules are the same as the data presented and described
7 in connection with PECO Exhibit BSY-1, because the same 13-month period was
8 used.

9 **160. Q. Please describe the calculation of common plant shown on Schedule C-8.**

10 A. Schedule C-8 shows the electric portion of common plant at December 31, 2017.
11 The gross common plant at December 31, 2017 is \$710 million, as shown on line 6
12 in column 1. Of this amount, \$496 million is allocated to electric distribution
13 operations, as shown in column 3. Electric distribution common plant is reduced
14 by the associated accumulated depreciation as shown on lines 7-10, yielding the
15 net common plant amount attributable to electric distribution operations at
16 December 31, 2017 of \$261 million, as shown on line13.

17 **161. Q. Please describe Schedule C-10.**

18 A. This schedule shows the unamortized AMR balance at the end of HTY recorded on
19 the Company’s books of account as of December 31, 2017.

1 **162. Q. What is presented on Schedule D-1?**

2 A. Schedule D-1, shows the net operating income at present rates for the HTY, the
3 pro forma revenue deficiency and the pro forma required revenue level.

4 **163. Q. Please describe Schedule D-2.**

5 A. Schedule D-2 shows revenue and expenses for the HTY, pro forma adjustments
6 and the pro forma revenue and expense amounts at present rates. This schedule
7 summarizes the adjustments that are detailed on Schedules D-3 and D-5 and
8 explained in connection with other supporting schedules to be described later in
9 my testimony.

10 **164. Q. Please describe Schedule D-3.**

11 A. Schedule D-3 contains two pages, which provide a summary of each of the pro
12 forma adjustments made to revenues and operating expenses, including
13 depreciation and taxes other than income taxes. Each of the adjustments will be
14 described in connection with the specific schedule containing the calculation of the
15 adjustment.

16 **165. Q. What is contained in Schedule D-4?**

17 A. This schedule contains two pages and shows the recorded amounts and pro forma
18 adjustment amounts for the HTY by revenue category and by FERC account for
19 expenses.

1 **166. Q. Please describe Schedule D-5.**

2 A. Schedule D-5 shows the pro forma adjustments to the HTY revenue. Each of the
3 listed adjustments is discussed in connection with Schedules D-5A to D-5G. All
4 these adjustments were prepared using the same methodology described in
5 connection with PECO Exhibit BSY-1, except Schedule D-5G, which is the
6 weather normalization adjustment to distribution revenue recorded in 2017.

7 **167. Q. Please describe the adjustment shown on Schedule D-5A.**

8 A. This adjustment on Schedule D-5A annualizes revenue for customer growth during
9 HTY. The process utilized is the same as that described in connection with the
10 same adjustment for the FPFTY on PECO Exhibit BSY-1, Schedule D-5A.

11 **168. Q. What is the adjustment shown on Schedule D-5B?**

12 A. The adjustment shown on Schedule D-5B annualizes CAP discounts for the HTY.
13 The process utilized is the same as that described in connection with the
14 corresponding adjustment for the FPFTY shown on PECO Exhibit BSY-1,
15 Schedule D-5B,

16 **169. Q. Please describe the adjustment shown on Schedule D-5C.**

17 A. This adjustment reflects the average of the revenue losses associated with the load
18 reductions mandated by Act 129. The Company is using the same calculation for
19 the HTY that was used for the corresponding adjustment for the FPFTY.

1 **170. Q. Please describe the adjustment on Schedule D-5D.**

2 A. Similar to the comparable schedule in PECO Exhibit BSY-1, Schedule D-5D
3 removes the Energy Efficiency and Conservation program-related costs and cost
4 recovery that was recorded in the HTY. The Company will continue to use the
5 Commission-approved surcharge mechanism to recover Energy Efficiency and
6 Conservation program related costs.

7 **171. Q. Please describe the adjustment on Schedule D-5E.**

8 A. Similar to the comparable schedule in PECO Exhibit BSY-1, Schedule D-5E
9 removes from the Company's HTY data the effect of the amortization of
10 Company's tax repair catch-up deduction refund, which is being provided to
11 customers by means of a bill credit separate from base rates. As I previously
12 explained, the Company will continue the refund to customers through the bill
13 credit mechanism until all the of the revenue effects of the deferred tax repair
14 catch-up is refunded in 2018.

15 **172. Q. Please describe the adjustment on Schedule D-5F.**

16 A. This schedule shows the development of a normalized level of distribution revenue
17 based on average number of days per year in a four-year cycle, which I previously
18 explained.

19 **173. Q. Please describe the adjustment shown on Schedule D-5G.**

20 A. Schedule D-5G shows the adjustment to normalize HTY distribution revenue to
21 reflect normal weather for weather sensitive load. This adjustment does not apply

1 to the FTY and the FPFTY because the distribution revenue for both of those years
2 was budgeted on the basis of normal weather.

3 **174. Q. Please describe Schedule D-6.**

4 A. Schedule D-6 annualizes S&W expense for the HTY. Page 1 shows the recorded
5 amounts in column 2. The pro forma adjustment is shown in column 5 by FERC
6 expense category. Page 2 shows the calculation of the annualization adjustments
7 to S&W and the normalization of the union contract ratification payment. These
8 adjustments were prepared using the same procedures described in connection with
9 the FPFTY using the data from the HTY to calculate the wage increases.

10 **175. Q. What is contained on Schedule D-7?**

11 A. Schedule D-7 normalizes rate case expenses using the same recorded and
12 estimated amounts used in the FPFTY calculation shown on PECO Exhibit BSY-1,
13 Schedule D-7.

14 **176. Q. Please describe the adjustments shown on Schedule D-8.**

15 A. This adjustment, which annualizes non-pension benefits related to the change in
16 number of employees during the HTY, was calculated using the same procedures
17 used for the comparable adjustment for the FPFTY and described in connection
18 with PECO Exhibit BSY-1, Schedule D-8.

1 **177. Q. Please describe the adjustment on Schedule D-9.**

2 A. This adjustment to pension expense in the HTY follows the same procedures used
3 for the FPFTY, which were described in connection with PECO Exhibit BSY-1,
4 Schedule D-9.

5 **178. Q. Are the adjustments on Schedules D-10 to D-13, D-15 and D-16 similar to the**
6 **adjustments included in PECO Exhibit BSY-1 and described in connection**
7 **with the schedules presented in that exhibit?**

8 A. Yes, they are.

9 **179. Q. Please describe Schedule D-17.**

10 A. Schedule D-17 presents the pro forma adjustment for depreciation to annualize
11 depreciation expense for plant balances at the end of the HTY, similar to the pro
12 forma adjustments described in connection with the comparable schedules in
13 PECO Exhibits BSY-1 and BSY-2.

14 **180. Q. Please describe the income tax calculations on Schedule D-18.**

15 A. This schedule shows the calculation of the pro forma income tax expense for the
16 HTY reflecting the Company revenue, expenses and measures of value included in
17 the pro forma present rate data and a 35% Federal corporate tax rate. In addition to
18 the tax depreciation amount, ITCs were calculated for electric operations, as shown
19 on page 4 of Schedule D-18. Because the lower Federal corporate income tax rate
20 provided in the TCJA was not in effect in 2017, no “excess” ADIT existed for the
21 HTY and, therefore, there is no flow-back of “excess” ADIT for the HTY. The

1 calculated income tax expense amount shown in total on line 49 of page 1 was
2 used in the calculation of the overall revenue increase requirement shown on
3 Schedule A-1.

4 **VI. PECO EXHIBIT BSY-4 – ESTIMATE OF THE EFFECTS OF TAX LAW**
5 **CHANGES FOR 2018**

6 **181. Q. Please explain what is shown on PECO Exhibit BSY-4.**

7 A. PECO Exhibit BSY-4 is the Company's calculation of the reduction in its 2018
8 revenue requirement attributable to changes in the federal tax law made by the
9 TCJA. PECO Exhibit BSY-4 is the same calculation submitted as Exhibit 1 to
10 PECO's Comments and Responses to Data Requests filed on March 9, 2018
11 pursuant to the Commission's February 12, 2018 Secretarial Letter at Docket No.
12 M-2018-2641242. PECO Exhibit BSY-4 employs pro forma data for 2018 that
13 corresponds to the data presented in PECO Exhibit BSY-2 for the FTY (2018). It
14 also employs a cost rate for common equity equal to the rate of return on common
15 equity set forth in the Bureau of Technical Utility Services' most recent Quarterly
16 Earnings Report for DSIC calculations by electric utilities.

17 **182. Q. What is the change in PECO's 2018 revenue requirement attributable to the**
18 **changes made by the TCJA?**

19 A. The estimated change in revenue requirement attributable to tax law changes
20 made by the TCJA is a reduction of \$68 million, as shown on line 47 of PECO
21 Exhibit BSY-4. However, because that figure is based on forecasted data for
22 2018, it will likely change over the course of the year based on differences
23 between forecasted and actual data. Such changes will be reconciled in the

1 reconciliation process for the proposed FTAC, as explained by Mr. Schlesinger in
2 PECO Statement No. 8.

3 **VII. CONCLUSION**

4 **183. Q. Does this complete your direct testimony at this time?**

5 A. Yes, it does.