

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

TABLE OF CONTENTS

| | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------|------|
| I. INTRODUCTION | 1 |
| II. PURPOSE OF TESTIMONY | 3 |
| III. ORGANIZATION OF TESTIMONY | 4 |
| IV. PROPOSED REVENUE REQUIREMENTS | 5 |
| 1. New Investments and Others | 7 |
| 2. Legacy Costs and Other Obligations | 10 |
| V. HISTORIC FINANCIAL AND STATISTICAL DATA (Exhibits AP-1) | 11 |
| VI. HISTORIC FEDERAL AND STATE INCOME TAXES (Exhibits AP-1, Schedule 11) | 13 |
| VII. HISTORIC BOOK COST OF UTILITY PLANT (Exhibits AP-1, Schedule 12) | 13 |
| VIII. HISTORIC ACCUMULATED PROVISION FOR DEPRECIATION OF UTILITY PLANT (Exhibits AP-1, Schedule 13)..... | 14 |
| IX. RATE BASE (Exhibits AP-2) | 14 |
| A. Net Plant Rate Base (Exhibits AP-2, Page 2) | 16 |
| B. Detailed Development of Working Capital, Unamortized Premium & Discount, and Customer Advance Construction (Exhibits AP-2, page 3) | 17 |
| 1. Materials and Supplies | 17 |
| 2. Prepayments | 18 |
| 3. Cash Working Capital | 18 |
| 4. Unamortized Premium & Discount, Unamortized Preferred Stock Expense, and Customer Advance for Construction | 20 |
| C. Net Deferrals/Credits from Reconciliation Mechanism (Exhibits AP-2, page 4) | 20 |
| D. Detailed Development of Accumulated Deferred Income Taxes (Exhibits AP-2, page 5) | 21 |
| E. Rate Base Over/Under Capital Adjustment (Exhibits AP-2, page 6) | 24 |
| X. REVENUES AND OPERATING EXPENSE DATA (Exhibits AP-3) | 24 |
| A. Sales Delivery and Net Revenue Margins (Exhibits AP-3, Schedule 3) .. | 26 |
| B. Amortization of Regulatory Deferrals (Exhibits AP-3, Schedule 4) | 27 |
| 1. Electric and Common Items | 29 |

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

| | | |
|-------|-----------------------------------------------------------------------------------------------|-----|
| 2. | Additional Gas Only Items | 37 |
| C. | Other Operating Revenues (Exhibits AP-3, Schedule 5)..... | 40 |
| 3. | Electric and Common Revenue Types..... | 41 |
| 4. | Additional Gas Only Revenues Types..... | 52 |
| D. | O&M Expenses (Exhibits AP-3, Schedule 6)..... | 57 |
| 1. | Development of O&M..... | 58 |
| 2. | Line Item Descriptions (Exhibits AP-3, Schedule 6)..... | 63 |
| E. | Depreciation and Amortization (Exhibits AP-3, Schedule 7.1 & 7.2)..... | 86 |
| F. | Taxes Other than Income Taxes (Exhibits AP-3, Schedule 8) | 88 |
| G. | State and Federal Income Taxes (Exhibits AP-3, Schedules 9 and 10).... | 89 |
| XI. | FUND REQUIREMENTS AND SOURCES (Exhibits AP-3, Schedule 12) | 90 |
| XII. | INTEREST COVERAGE – S.E.C. BASIS PER BOOKS (Exhibits AP-3, Schedule 13) | 92 |
| XIII. | NET PLANT INVESTMENT (EXHIBITS AP-4)..... | 93 |
| A. | Projected Net Plant Balances (Exhibits AP-4, Schedules 1 & 2) | 93 |
| B. | Allocation of Common Plant Investment (Exhibits AP-4, Schedule 3) ... | 94 |
| XIV. | RATE OF RETURN (EXHIBIT AP-5)..... | 95 |
| XV. | ALLOCATION OF ELECTRIC RATE INCREASE (Exhibit AP-6)..... | 98 |
| XVI. | RECONCILIATIONS AND DEFERRED ACCOUNTING..... | 99 |
| A. | Modified Deferral or Reconciliation Mechanisms | 101 |
| 1. | Electric and Gas Net Plant | 101 |
| 2. | AMI Net Plant (Electric and Gas)..... | 103 |
| 3. | New Customer Service System (“CSS”) (Electric and Gas) | 104 |
| 4. | Non-Wires Solutions (“NWS”) and Non-Pipeline Alternatives (“NPA”) (Electric and Gas) | 105 |
| 5. | Property Tax Reconciliation & Refund Sharing (Electric and Gas). | 106 |
| 6. | Interference O&M Reconciliation (Electric and Gas) | 108 |
| 7. | NENY Energy Efficiency (“EE”) (Electric and Gas) | 109 |
| 8. | Smart Charge Electric Vehicles (“EV”) (Electric) | 111 |
| 9. | Major Storm Reserve (Electric)..... | 112 |
| 10. | Long Term Debt Cost Rate (Electric and Gas)..... | 114 |

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

| | |
|-------------------------------------------------------------------------|-----|
| 11. Legislative, Regulatory and/or Related Actions (Electric and Gas) . | 115 |
| 12. Prevailing Wage Law (Electric and Gas)..... | 116 |
| 13. Pipeline Safety Acts (Gas)..... | 117 |
| B. New Deferral Or Reconciliation Mechanisms..... | 117 |
| 1. COVID Uncollectible Reconciliation (Electric and Gas)..... | 118 |
| 2. Late Payment Fees (Electric and Gas)..... | 119 |
| 3. Purchase of Receivables (“POR”) (Electric and Gas) | 120 |
| 4. Inflation (Electric and Gas)..... | 121 |
| 5. Regulatory Commission Assessment (Electric and Gas)..... | 123 |
| 6. Power Ready Electric Vehicles (Electric)..... | 124 |
| C. Terminated Deferral or Reconciliation Mechanism | 124 |
| 1. Sales and Use Tax Refunds 2019..... | 125 |
| 2. Taxes on Health Insurance..... | 125 |
| 3. NYC Local Law 97 | 126 |
| 4. Gas Service Lines | 126 |
| XVII. MULTI-YEAR RATE PLAN..... | 126 |
| XVIII. MANAGEMENT AND OPERATIONS AUDITS | 127 |

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 I. INTRODUCTION

2 Q. Would the members of the Accounting Panel please state their names and
3 business address?

4 A. Joseph Miller, Kelly McLaughlin-Martini, and Wenqi Wang. We are each
5 employed by Consolidated Edison Company of New York, Inc. (“Con Edison,”
6 the “Company” or “CECONY”). Our business address is 4 Irving Place, New
7 York, NY 10003.

8 Q. What are your current positions and general responsibilities with Con Edison?

9 A. **(Miller)** I am the Vice President and Controller. In this position I am the
10 Company’s chief accounting officer with the overall responsibility for the
11 development and maintenance of the Company’s financial accounting records.

12 **(McLaughlin)** I am the Assistant Controller responsible for the Regulatory
13 Accounting & Policy, Accounts Payable and Payroll.

14 **(Wang)** I hold the position of Department Manager of Regulatory Accounting
15 and Revenue Requirements.

16 Q. Please explain your educational background and work experience.

17 A. **(Miller)** In June 1984, I received a Bachelor of Business Administration Degree
18 in Accounting from Baruch College and in January 1990, I received a Master of
19 Business Administration in Finance from Baruch College. I began my
20 employment with Con Edison in July 1984 as a Management Intern. I worked in
21 the Corporate Accounting Department from July 1985 until January 2001
22 primarily between the Accounting Research and Procedures (“ARP”) and the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 General Accounts (“GA”) sections starting as a Staff Accountant, then Supervisor
2 and ultimately reaching the Department Manager level in both sections. In 2001,
3 I worked as a Department Manager within the Corporate Planning Department
4 and then in 2002, I became the Department Manager of our Financial Reporting
5 section. In 2004, I became an Assistant Controller and then a Director of
6 Treasury’s Risk Management section. From 2006 through 2012, I was an
7 Assistant Controller for the Financial Reporting Sections, which ultimately
8 included ARP, GA, Commodity and Derivative Accounting, Account
9 Reconciliations and Financial Reporting. From 2013 through 2017, I was the
10 Assistant Controller responsible for the Regulatory Accounting & Policy,
11 Accounts Payable, Payroll and Account Reconciliation sections. From 2018 to
12 2021, I returned to the Assistant Controller position for the Financial Reporting
13 Sections which by that time included ARP, GA, and Financial Reporting. I
14 became Vice President and Controller in 2021.

15 **(McLaughlin-Martini)** I graduated from Fordham University in 1997 with a
16 Bachelor of Science Degree in Accounting and Finance and received my Master
17 of Business Administration, also from Fordham University, in 2004. I am a
18 Certified Public Accountant. After five years working predominately as an auditor
19 and accountant, I joined Con Edison in 2003 as an Accountant in the Corporate
20 Accounting department. I assumed positions of increasing responsibility over the
21 years, including Senior Accountant and Department Manager in Corporate
22 Accounting, Financial Accounting & Reporting. In September 2014, I assumed

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 the position of Department Manager O&R Financial Services and in November
2 2016, I was promoted to Director, Corporate Financial Planning and Analysis. I
3 assumed the position of Assistant Controller, Corporate Accounting in April
4 2021.

5 **(Wang)** In June 1999, I received a Bachelor of Science Degree in Accounting
6 from the University at Albany, State University of New York. I began my
7 employment with Con Edison in July 1999 as a Management Intern. I worked in
8 the Corporate Accounting Department from July 2000 until April 2014, primarily
9 in the General Accounts section starting as a Staff Accountant, then Supervisor
10 and ultimately reaching the Department Manager level. In May 2014, I assumed
11 my current position as Department Manager of Regulatory Accounting and
12 Revenue Requirements.

13 Q. Have any members of the Accounting Panel previously testified before the New
14 York State Public Service Commission (“PSC” or the “Commission”)?

15 A. Yes. All members of the Accounting Panel have previously submitted testimony
16 before the Commission on behalf of CECONY and/or its affiliate, Orange and
17 Rockland Utilities, Inc. (“O&R”), in previous electric, gas and/or steam
18 proceedings.

19 **II. PURPOSE OF TESTIMONY**

20 Q. Please summarize your testimony.

21 A. The Accounting Panel testimony covers the following topics:

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 For gas, the Company is requesting an increase of approximately \$503 million for
 2 the Rate Year. That amount equates to approximately a 18.2% overall increase in
 3 customer bills and approximately a 28.1% increase on a delivery bill basis.

4 Q. What are the primary drivers of the requested electric and gas rate increases?

5 A. The primary drivers for the requested increases are summarized in Table 1. The
 6 table is separated into two categories: ‘New Investments and Others,’ representing
 7 drivers initiated by the Company in this proceeding, and ‘Legacy Costs and Other
 8 Obligations,’ representing the revenue requirement effects of factors outside of
 9 the Company’s control in this proceeding. Additional detail regarding the
 10 components of each driver is set forth in the AP-3 exhibits and additional
 11 commentary regarding the most significant drivers is included in the table below.

| Table 1 (\$millions) | | |
|----------------------------------------------------------------------------------------------------------|-----------------|--------------|
| Driver | Electric | Gas |
| <i><u>New Investments and Others</u></i> | | |
| New infrastructure investment | 250 | 161 |
| ROE / Capital structure | 201 | 77 |
| Operations and maintenance expenses | 79 | 32 |
| Depreciation | 15 | 64 |
| Income taxes | 12 | 12 |
| Other Operating revenues | 12 | 7 |
| <i><u>Legacy Costs and Other Obligations</u></i> | | |
| Sales revenues | 259 | 77 |
| Amortization of net deferred credits/costs (e.g., storm deferrals, prior rate plan property taxes) | 191 | (1) |
| Property and other taxes | 180 | 74 |
| Total | \$1,199 | \$503 |

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **A. New Investments and Others**

2 *New Infrastructure Investment*

3 Q. Please discuss the impact of new infrastructure investment on the Company’s rate
4 base.

5 A. The Company has a statutory obligation to maintain safe and reliable electric and
6 gas systems in a changing climate. As discussed by the Company’s Electric
7 Infrastructure and Operations Panel (“EIOP”), Gas Infrastructure, Operations and
8 Supply Panel (“GIOSP”), Storm Response and Resiliency Panel, Climate
9 Leadership and Community Protection Act (“CLCPA”) Panel and other Company
10 witnesses, the projected level of spending reflects the investments determined to
11 be necessary to install and replace infrastructure and manage risk, meet current
12 customer needs, plan for future customer needs and enable the transition to a
13 clean energy system. The Company makes capital spending decisions following
14 its extensive and rigorous analysis, including an optimization assessment that is
15 guided by our long- and short-term planning processes and takes into account
16 State and local policy objectives and potential climate change impacts. As the
17 witnesses explain, the Company’s strategy is to invest in infrastructure
18 enhancements only when less expensive alternative solutions are not available to
19 sustain existing reliability levels, provide for localized delivery capacity needs,
20 provide for employee and public safety, and enable the clean energy transition.
21 And for gas, the Company’s capital investment strategy is focused on making the
22 system safer.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 The expanding need for capital investment, much of which is related to resiliency
2 and clean energy enablement for electric, and safety for gas, contributes to the
3 increase in the carrying cost on rate base relative to current RY3 rate levels by
4 approximately \$250 million for electric and \$161 million for gas, which includes
5 additional depreciation expense of \$59 million for electric and \$47 million for gas
6 on the higher plant investment at the Company’s currently-authorized
7 depreciation rates.

8 ***ROE/Capital Structure***

9 Q. Please discuss the increase in financing costs for both electric and gas services as
10 shown in Table 1.

11 A. The overall effect of the change in financing costs amounts to \$201 million for
12 electric and \$77 million for gas. The primary factor contributing to this increase
13 is the proposed return on equity (“ROE”) of 10.00 percent (as compared to the
14 ROE in RY 3 of the current rate plan). Other factors include increasing the equity
15 ratio from 48.00 percent to 50.00 percent, partially offset by a decrease in the cost
16 of debt from 4.63 percent to 4.28 percent and a decrease in the customer deposit
17 rate from 2.45 percent to 0.05 percent.

18 Q. Why is the Company proposing an ROE of 10.00 percent in this rate filing?

19 A. As discussed in her direct testimony, Company witness Villadsen is
20 recommending an ROE range between 10.0 and 10.50 percent for the Company.
21 The Company is filing with the lower 10.00 percent ROE in order to facilitate the
22 resolution of the issues in these proceedings.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 ***Operations and Maintenance (“O&M”) Expenses***

2 Q. Please explain the increases in electric and gas O&M expenses as shown in Table
3 1 above.

4 A. Increases in O&M expenses result from a variety of normalizations of Historic
5 Year/Test Year (*i.e.*, October 1, 2020 through September 30, 2021) costs and
6 program changes described later in this testimony and in the testimony of various
7 Company witnesses. In addition, the Company escalated Historic Year expenses
8 using labor and non-labor escalation factors to arrive at Rate Year amounts, as
9 described later in this testimony.

10 For electric, the \$79 million overall increase in O&M expense includes, in
11 addition to general inflation and wage awards, funding of a number of operational
12 enhancements, including maintenance of various Information Technology (“IT”)
13 projects such as the new Customer Service System (“CSS”) system. There are
14 also increases related to facilities and field services as well as interference. These
15 increases are partially offset by certain reductions, most notably savings driven by
16 reduced Pension and other Post-Employment Benefit (“OPEB”) costs, as well as
17 Employee Welfare Expenses.

18 For gas, the \$32 million overall increase in O&M expense is driven in part by
19 increased spending on IT support and higher spending on gas interference. In
20 addition, this increase includes the effect of moving gas service line inspection
21 costs from surcharge to base rates. These increases are partially offset by certain
22 reductions to Pension and OPEB costs.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 ***Depreciation***

2 Q. Please explain the increases in depreciation expense for electric and gas.

3 A. The increases in electric and gas expenses are driven by a proposal for increased
4 depreciation rates, partially mitigated by a decrease in the depreciation reserve
5 deficiency. As discussed by the Company’s Depreciation Panel, the increase in
6 gas depreciation expense is also driven by the Company’s proposal to reduce
7 certain gas service lives in alignment with the requirements of CLCPA.

8 **B. Legacy Costs and Other Obligations**

9 ***Sales Revenue***

10 Q. Please explain the sales revenue effect on the revenue requirement shown in Table
11 1 above.

12 A. With regard to the electric sales revenue forecast contained in its current rate plan,
13 the Company is projecting a revenue requirement increase of \$259 million
14 relative to projected revenues in RY3 of the current rate plan. Using a similar
15 comparison for gas, the Company is projecting a revenue requirement increase of
16 \$77 million.

17 ***Amortization of Net Deferred Credits/Costs***

18 Q. Please discuss the increases related to the amortization of net deferred
19 credits/costs as shown in Table 1 above.

20 A. The increase in the electric amortization of deferrals was \$191 million, while gas
21 was relatively flat. Approximately \$130 million of the electric increase is due to
22 the expiration of one of the credits associated with the refund of the 2018 tax

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 savings resulting from the reduction in the corporate tax rate from 35% to 21%,
2 pursuant to the Tax Cuts and Jobs Act of 2017. Two other major contributors to
3 the electric increase are increases to the major storm and pension/OPEB deferrals
4 of approximately \$53 million and \$57 million, respectively.

5 ***Property and Other Taxes***

6 Q. Please discuss the increases related to property and other taxes for electric and gas
7 services as shown in Table 1 above.

8 A. The total increase in property and other taxes is \$180 million for electric and \$74
9 million for gas, representing approximately 15% of the requested increase for
10 both electric and gas. The increases in property taxes relative to the current rate
11 allowances are attributable to higher projected property taxes in New York City
12 (“NYC”), partially offset by lower projected property taxes in the County of
13 Westchester and other municipalities, as addressed in the testimony of the
14 Company’s Property Tax Witness.

15 **V. HISTORIC FINANCIAL AND STATISTICAL DATA (Exhibits AP-1)**

16 Q. Are you familiar with the Company’s accounting books and records?

17 A. Yes.

18 Q. Are the accounts of the Company kept in accordance with the Uniform System of
19 Accounts prescribed by the Commission?

20 A. Yes.

21 Q. Does this filing include historical financial and statistical data as required by the
22 Commission for major rate filings?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. Yes. The required information is included in the AP-1 exhibits.
2 Exhibits AP-1, Schedules 1-10, consist of an index and supporting schedules (*i.e.*,
3 ten for electric and nine for gas) containing financial data and the results of
4 operations for the particular utility service. The balance sheets are shown as of
5 December 31 for the years 2017 through 2020, and as of September 30, 2021, the
6 end of the Historic Year. Details of the income statement accounts are shown for
7 the calendar years 2018 through 2020, and the Historic Year. Exhibits AP-1,
8 Schedules 1-10 are:

- 9 • Schedule 1 – Balance Sheets;
- 10 • Schedule 2 – Income Statements;
- 11 • Schedule 3 – Unappropriated Retained Earnings;
- 12 • Schedule 4 – Utility Operating Income;
- 13 • Schedule 5 – Operating Revenues;
- 14 • Schedule 6 – Statement of Commodity Supplied and Revenue Billed
- 15 • Schedule 7 – Other Operating Revenues;
- 16 • Schedule 8 – Operation and Maintenance Expenses;
- 17 • Schedule 9 – Taxes Other Than Income Taxes; and
- 18 • Schedule 10 – Power Production Expenses (electric only).

19 All of the financial information in Exhibits AP-1, Schedules 1-10, are from the
20 books and records of the Company, except statistical information in cents per
21 kWh and dekatherm, which were computed based on the data contained in the
22 exhibits.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **VIII. HISTORIC ACCUMULATED PROVISION FOR DEPRECIATION**
2 **OF UTILITY PLANT (Exhibits AP-1, Schedule 13)**

3 Q. Have you included a presentation of the historic balances of the accumulated
4 provision for depreciation of utility plant in your exhibits?

5 A. Yes. Exhibits AP-1, Schedule 13, contain historic balances of the accumulated
6 provision for depreciation as of the end of the Historic Year and as of the end of
7 the preceding four calendar years. The amounts shown in Exhibits AP-1,
8 Schedule 13, were taken from the books and records of the Company. We will
9 address projected changes to the accumulated provision for depreciation below in
10 this testimony.

11 **IX. RATE BASE (Exhibits AP-2)**

12 Q. Turning to rate base, do your exhibits include an itemization of the components of
13 electric and gas rate base?

14 A. Yes, that information for the Historic Year and the Rate Year is presented in
15 Exhibits AP-2.

16 Q. Please describe your presentation of rate base in Exhibits AP-2.

17 A. The presentation approach is the same for the electric and gas rate base exhibits.
18 There are a total of six pages in Exhibits AP-2. Page 1 summarizes the overall
19 rate base calculation for the Historic Year and Rate Year. Page 2 shows the
20 details of the forecasted net plant and non-interest bearing CWIP calculation, as
21 shown on page 1, lines 1 to 11 for electric (lines 1 to 10 for gas). Page 3 provides
22 the details of the working capital, unamortized premium & discount, unamortized
23 preferred stock expense, and customer advance construction figures, as shown on

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 page 1, lines 12, 13, 14, and 15 for electric (lines 11, 12, 13, and 14 for gas).

2 Page 4 provides the details of the projected deferred balances from reconciliation
3 mechanisms contained in the current rate plan as shown on page 1, line 16 for
4 electric (line 15 for gas). Page 5 shows the details of accumulated deferred
5 federal and state tax balances, as shown on page 1, lines 17 to 20 for electric
6 (lines 16 to 19 for gas). Page 6 provides a detailed calculation of the Earnings
7 Base Capitalization Adjustment amount, as shown on page 1, line 22 for electric
8 (line 21 for gas).

9 Q. Are there any remaining rate base items on page 1 of Exhibits AP-2 that are not
10 detailed on pages 2 - 6 of Exhibits AP-2?

11 A. Yes. Pension/OPEB Reduction on line 23 (line 22 for gas), and Former
12 Employee/Contractor Proceeding Rate Base Reduction on line 24 (line 23 for
13 gas), 2018 Sales and Use Tax Refund on line 26 (line 24 for gas), Isaias Storm
14 Settlement on line 25 are the remaining rate base items that are shown on page 1
15 of Exhibits AP-2.

16 For the Pension/OPEB Reduction, without waiving its right to modify its position
17 in future rate proceedings, the Company made an adjustment for prepaid pensions
18 based on a decision in Case 07-E-0523.

19 Regarding the Former Employee/Contractor Proceeding Rate Base Reduction, the
20 Company made this adjustment in compliance with the Commission-adopted
21 Joint Proposal in Cases 09-M-0114 and 09-M-0243. In the Joint Proposal, the
22 Company agreed to forgo earning any return after January 1, 2017 on certain

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 capital expenditures and to limit the return on certain other capital expenditures
2 after January 1, 2017 until December 31, 2044 to the Company's embedded cost
3 of long-term debt.

4 The Isaias Storm Settlement refers to the settlement agreement that fully resolved
5 issues with respect to four events described in Cases 21-E-0372, 20-E-0422, 20-
6 E-0586, 20-E-0587, 20-E-0588, 20-E-0643, and 18-S-0448. In that settlement,
7 the Company agreed to forgo recovery from customers of \$25 million associated
8 with the return on existing storm hardening assets over a period of 35 years. As
9 such, the Company has removed the undepreciated plant balances for the storm
10 hardening assets from rate base in this electric base rate filing.

11 For the Sales and Use Tax Refund received in 2018, the Company agreed in Case
12 19-E-0065 and 19-G-0066 to reflect the refund as cost of service adjustment in
13 rate base and depreciation, amortized over 24 years ending December 31, 2043.

14 **C. Net Plant Rate Base (Exhibits AP-2, Page 2)**

15 Q. What rate base items related to net plant investment are included on page 2 of
16 Exhibits AP-2?

17 A. Page 2 of Exhibits AP-2 includes projected net plant and the portion of CWIP not
18 subject to Allowance for Funds Used During Construction ("AFUDC"). Net plant
19 includes utility plant in service, the allocated portion of common utility plant,
20 plant held for future use, Oracle agreement payment liability and the accumulated
21 provision for depreciation at proposed depreciation rates, including proposed
22 recovery of reserve deficiencies. Rate Year plant and accumulated depreciation

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 forecasts are based on capital budget models and a thirteen-point average
2 methodology. A description on how the Company developed the forecasted
3 amounts of these items for the Rate Year is included in Section XIII of this
4 testimony. In this filing, the Company is projecting Rate Year CWIP to remain at
5 the Historic Year level. As the Company further reviews its capital forecast, it
6 will refine the Rate Year CWIP projection and incorporate the projection into the
7 Update filing.

8 **D. Detailed Development of Working Capital, Unamortized Premium &**
9 **Discount, and Customer Advance Construction (Exhibits AP-2, page**
10 **3)**

11 Q. Please explain the rate base component labeled “Working Capital” on page 1 of
12 Exhibits AP-2.

13 A. The detailed elements of working capital rate base are shown on page 3 of
14 Exhibits AP-2. Working capital rate base contains three categories: Materials and
15 Supplies, Prepayments, and Cash Working Capital.

16 **1. Materials and Supplies**

17 Q. How did you determine the average balance of Materials and Supplies rate base
18 for the Rate Year shown on page 3 of Exhibits AP-2?

19 A. As in past Company rate cases, the Rate Year forecast of Materials and Supplies
20 inventory generally represents the Historic Year amount escalated using the
21 general escalation factor.

22 An exception with respect to gas, however, but also consistent with the practice in
23 past Company gas rate cases, is that we excluded from rate base the inventory

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 balances of both gas stored underground and Liquefied Natural Gas in storage.

2 As discussed later, we have also eliminated from sales revenues the effects of gas
3 in storage (as well as other items) to reflect only pure base revenues on which the
4 revenue requirement should be based. This elimination would match our
5 adjustment to revenues.

6 **2. Prepayments**

7 Q. What is included in the “Prepayments” category of working capital rate base on
8 page 3 of Exhibits AP-2?

9 A. The prepayment component of working capital rate base includes local property
10 tax, computer maintenance and software support, insurance, Commission
11 assessment, NYS Gross Receipts Tax, rents and other items.

12 Q. Please explain how you developed the Rate Year rate base amount for the
13 prepayment items.

14 A. All prepayments except for the prepaid property taxes were projected at the
15 Historic Year level and escalated by general inflation. Prepaid property taxes are
16 forecasted to increase at the same rate as property taxes. The Company’s
17 Property Tax witness in her direct testimony provides further explanation of the
18 Company’s property tax forecasts.

19 **3. Cash Working Capital**

20 Q. Please explain the allowance for the cash working capital component of working
21 capital rate base on page 3 of Exhibits AP-2.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. We determined the cash working capital component of working capital rate base
2 following well-established Commission practice including application of the 1/8
3 FERC Working Capital Formula. As such, we performed separate calculations of
4 the rate base amount for electric and gas. For each, we started with projected total
5 O&M expenses from Schedule 6 of Exhibits AP-3. Continuing with the
6 established approach, we eliminated certain expenses from the O&M expense
7 amounts to arrive at the level of O&M expenses that would be subject to the 1/8
8 FERC Working Capital Formula.

9 For electric, we eliminated purchased power and fuel expenses, amortization of
10 energy efficiency programs and energy efficiency surcharges, amortization of
11 Manufactured Gas Plant (“MGP”)/Superfund Site, interdepartmental rents, East
12 River Repowering Project (“ERRP”) rent, System Benefit Charge and
13 uncollectible accounts expense. For gas, we eliminated purchased gas expenses,
14 interdepartmental rents, amortization of MGP/Superfund Site, System Benefit
15 Charge and uncollectible accounts expense for that purpose.

16 The amounts for gas are the final cash working capital amounts, but there is an
17 additional element of the cash working capital allowance for electric related to the
18 fuel and purchased power expenses previously eliminated from the calculation.

19 The cash working capital allowance related to fuel and purchased power is
20 calculated based on a time lag between fuel costs included in customer bills and
21 when payments are collected from customers, as customarily applied by the
22 Commission. This additional element of the cash working capital allowance adds

DIRECT TESTIMONY – ACCOUNTING PANEL

1 \$113 million to the cash working capital rate base for electric as shown on page 3
2 of Exhibit AP-E2.

3 **4. Unamortized Premium & Discount, Unamortized Preferred**
4 **Stock Expense, and Customer Advance for**
5 **Construction**

6 Q. Please explain the unamortized premium/discount expense, unamortized preferred
7 stock expense, and customer advance for construction on page 3 of Exhibits AP-2.

8 A. The unamortized premium/discount and expense reflects the unamortized balance
9 of debt discounts, premiums and expenses, as additions to rate base. Unamortized
10 Preferred Stock Expense reflects the unamortized preferred stock expense as
11 additions to rate base. The Commission directed this rate base treatment in its
12 Order on Rehearing in Case 27353. Customer advance for construction represents
13 the amount billed to customers and others for the construction necessary to
14 provide utility service to their premises (rather than for general system service)
15 and represent a reduction to rate base. The Historic Year levels of these items
16 were carried forward to the Rate Year.

17 **E. Net Deferrals/Credits from Reconciliation Mechanism (Exhibits AP-2,**
18 **page 4)**

19 Q. Are deferral balances net of deferred income taxes?

20 A. Yes.

21 Q. Please explain each item on Exhibit AP-2, page 4.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. For detail on lines 1-52 of Exhibit AP-E2, page 4, and lines 1-39 of Exhibit AP-
2 G2, page 4, please refer to Section XVI (Reconciliations & Deferred Accounting)
3 of this testimony.

4 Line 46 (G), Underground Gas Storage – Noncurrent, represents the Company’s
5 investment in the non-current portion of cushion gas stored underground. The
6 Historic Year levels of underground gas storage were carried forward to the Rate
7 Year.

8 Line 58 (E)/Line 45 (G), Unbilled Revenues, represents the unbilled revenue
9 deferral that was established to allow the Company to recover a portion of the
10 deferred World Trade Center (“WTC”) related costs. The electric amount
11 included in rate base, \$94 million, was approved by the Commission as part of
12 Case 08-E-0539. The amount included in gas rate base, \$46 million, was
13 approved by the Commission in Case 06-G-1332.

14 Line 59 (E), Deferred Fuel - Net of Tax, is the average balance of deferred fuel,
15 net of taxes. Deferred fuel is comprised of deferred Market Supply Charge
16 (“MSC”)/MAC costs.

17 **F. Detailed Development of Accumulated Deferred Income Taxes**
18 **(Exhibits AP-2, page 5)**

19 Q. How did the Company develop Accumulated Deferred Federal Income Taxes on
20 page 5 of Exhibits AP-2?

21 A. The Company developed Accumulated Deferred Federal Income Taxes for plant-
22 related items using data from its capital budget and tax depreciation models. The

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Company calculates the rate base impact for federal deferred income taxes by
2 using a proration methodology that is required by the Internal Revenue Service
3 (“IRS”) for any revenue requirement calculation that employs a future test period.
4 The Company developed non-plant related deferred taxes by escalating the
5 historic balances.

6 Q. How did the Company develop the Accumulated Deferred State Income Taxes on
7 page 5 of Exhibits AP-2?

8 A. The Company developed Accumulated Deferred State Income Taxes using data
9 from the Company’s capital budget and tax depreciation models. The forecasted
10 Rate Year balance is based on 50% of beginning and 50% of ending forecasted
11 balance.

12 Q. Please explain the line items pertaining to federal and state deferred income taxes.

13 A. Below are detailed descriptions of the line items common to federal and state
14 deferred income taxes. For figures for each line item, please see page 5 of
15 Exhibits AP-2.

16 **Statutory Tax Deduction**, represents the deferred income taxes resulting from
17 the normalization of federal/state tax depreciation. The Company developed the
18 average balance of accumulated deferred taxes for the Rate Year by starting with
19 the actual balance at the end of the Historic Year and increasing it each month
20 through the Rate Year if forecasted deferred income taxes generated by tax
21 depreciation normalization exceeded the amortization of such amounts previously
22 deferred.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Change in Accounting Section 263A**, represents deferred income taxes for
2 capitalized overheads deducted on the Company’s tax returns under Section 263A
3 of the IRS Code.

4 **Repair Allowance**, represents deferred income taxes for repair allowance
5 deductions claimed in lieu of tax depreciation on new plant.

6 **Cost of Removal**, reflects deferred income taxes associated with the timing
7 differences between financial accounting and accounting for income tax purposes
8 related to removal costs.

9 **Materials and Supplies Deduction**, represents deferred income taxes for non-
10 incidental materials and supplies costs claimed in lieu of the tax depreciation that
11 would be otherwise claimed on new plant.

12 **Vested Vacation (non-plant portion)**, reflects the amount of accumulated
13 deferred federal/state income taxes on the vested vacation pay deduction.

14 **Prepaid Insurance Expense**, reflects the amount of accumulated deferred
15 federal/state income taxes on prepaid insurance expenses.

16 **Unbilled Revenues**, represents the deferred balance of taxes paid on unbilled
17 revenues. The Commission, in its Statement of Policy on Accounting and
18 Ratemaking Procedures to Implement Requirements of the Tax Reform Act of
19 1986 (“TRA-86”), issued July 8, 1989 in Case 29465, directed utilities to
20 normalize the effect of unbilled revenues in taxable income. This line also
21 reflects the effects of the unbilled revenue change previously mentioned in this
22 section.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Call Premiums**, is the deferred federal/state income tax effect resulting from the
2 payment of call premiums when redeeming long-term debt issues prior to their
3 maturity dates. The call premiums paid are a current deduction for federal/state
4 income tax purposes, but amortized over the remaining lives of the redeemed
5 issues, in accordance with Commission policy.

6 **G. Rate Base Over/Under Capital Adjustment (Exhibits AP-2, page 6)**

7 Q. Please explain the rate base over/under capitalization adjustment (“EB/Cap
8 Adjustment”) on Exhibits AP-2, page 6.

9 A. The rate base over/under capitalization adjustment on Exhibits AP-2, page 6,
10 reflects the required adjustment to rate base to make earnings base equal to
11 capitalization. The Commission has required this EB/Cap Adjustment in past
12 proceedings to synchronize rate base plus interest bearing items (together,
13 “Earnings Base”) with the total capitalization employed in utility service. Line 54
14 on Exhibits AP-2, page 6, shows the EB/Cap adjustment amount to each electric
15 and gas rate base. The Company calculates the EB/Cap adjustment amount by
16 taking the total capitalization amount on line 53, less the rate base balance on line
17 31.

18 **X. REVENUES AND OPERATING EXPENSE DATA (Exhibits AP-3)**

19 Q. Have you included a presentation of the Historic Year and projected Rate Year
20 revenues and expenses in your exhibits?

21 A. Yes. Historic Year levels and Rate Year levels of revenues and expenses are
22 presented in Exhibits AP-3.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Each of Exhibits AP-3 contains extensive detail regarding elements or
2 components of revenue and expense on which the Company's rate request is
3 based. The first page of Exhibits AP-3 is an index of the 17 schedules included in
4 the exhibits.

- 5 • Schedule 1 presents the major cost drivers of the proposed revenue
6 requirement increase.
- 7 • Schedule 2 presents the summary of the proposed revenue requirement
8 increase.
- 9 • Schedule 3 presents the total revenues at current rates used to develop the
10 revenue requirement.
- 11 • Schedule 4 presents projected amortizations of deferred debits and credits.
- 12 • Schedule 5 presents projected other operating revenues.
- 13 • Schedule 6 shows projected O&M expenditures.
- 14 • Schedule 7.1 presents depreciation at current rates with no additional
15 recovery of the reserve deficiency and Schedule 7.2 presents depreciation
16 at proposed rates and adjusting the annual recovery of the reserve
17 deficiency.
- 18 • Schedule 8 presents projected taxes other than income taxes.
- 19 • Schedules 9 and 10 present projected state and federal income taxes.
- 20 • Schedule 11 projects Rate Year interest expense for purposes of reflecting
21 the interest deduction included in Schedules 9 and 10. The schedule
22 applies the weighted cost of debt from the Company's capitalization

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 schedules to forecasted rate base inclusive of interest bearing CWIP in
2 order to derive the projected interest deduction.

- 3 • Schedule 12 presents projected fund requirements and sources.
- 4 • Schedule 13 presents interest coverage ratios.
- 5 • Schedule 14 shows how the general escalation factor was derived.
- 6 • Schedule 15 presents underlying calculations supporting the labor
7 escalator.
- 8 • Schedule 16 summarizes normalizations, program changes, and other Rate
9 Year adjustments.
- 10 • Schedule 17 lists cost elements and other items that the Company expects
11 to update during these proceedings, and the sponsoring witnesses. In
12 addition, any adjustments identified during discovery will be updated as
13 well.

14 **A. Sales Delivery and Net Revenue Margins (Exhibits AP-3, Schedule 3)**

15 Q. How did the Company develop the sales revenues and associated fuel, purchased
16 power and purchased gas costs, as applicable, for the Rate Year shown on
17 Schedule 3 of Exhibits AP-3?

18 A. The Company's Electric and Gas Forecasting Panels provided the sales revenue
19 forecast for each commodity shown in Exhibits AP-3, Schedule 3. The
20 methodology used to derive sales revenue forecasts is addressed in the direct
21 testimony of those Company witnesses.

22 The Company developed fuel and purchased power costs as follows:

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

- 1 • Electric fuel and purchased power costs were developed by Company
2 witness Kimball – Electricity Supply. We adjusted the electric fuel costs
3 to an accounting basis to reflect the deferred accounting for these costs
4 prescribed by the Commission as implemented through the MAC and the
5 MSC.
- 6 • Purchased gas costs were developed by the GIOSP. We adjusted the
7 purchased gas costs to an accounting basis to reflect the deferred
8 accounting for these costs prescribed by the Commission as implemented
9 through the Gas Cost Factor (“GCF”) and the Monthly Rate Adjustment
10 (“MRA”).

11 **B. Amortization of Regulatory Deferrals (Exhibits AP-3, Schedule 4)**

12 Q. Please explain the amortizations of regulatory deferrals as shown on Exhibits AP-
13 3, Schedule 4.

14 A. These adjustments reflect the Company’s proposals for crediting or charging
15 customers for a variety of deferred credits or deferred charges. The Company
16 projects the balance of deferred charges at the beginning of the Rate Year by
17 obtaining the deferral balances as of September 30, 2021 and projecting any
18 additional deferrals and amortizations from October 2021 to December 2022. In
19 the preliminary update, the Company will update this exhibit with the December
20 31, 2021 deferral balances and revise its 2022 projections of deferrals and
21 amortizations as appropriate.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Q. Do these proposals and adjustments result in a net credit to or net charge to
2 customers in the Rate Year?

3 A. For electric, the result is a net collection from customers of \$213,368,000 in the
4 Rate Year.

5 For gas, the result is a net collection from customers of \$37,871,000 in the Rate
6 Year.

7 Q. What amortization period is the Company proposing for these deferred credits and
8 deferred charges?

9 A. For most items, the Company proposes an amortization period of three years
10 starting at the beginning of the Rate Year (*i.e.*, January 1, 2023). With regard to
11 electric, the Company proposes longer amortizations for the REV Demonstration
12 Projects, BQDM, NENY EE, Electric Vehicle Smart Charge, Electric Vehicle
13 Power Ready, NENY Heat Pumps (Clean Heat), Heating Electrification Make
14 Ready, EE Information Systems and Operational Software Upgrades, Legacy
15 Meters, Non-Wire Alternative programs, Storage Dispatch General Expenses,
16 System Peak Reduction programs, and Site Investigation and Remediation
17 (“SIR”) costs. With a few exceptions explained by the Company’s CES Panel,
18 the extended amortization periods were directed or previously approved by the
19 Commission. For gas, the amortization period for EE extends beyond three years.
20 Additionally, the Company is recovering costs of the Meadowlands Heaters
21 Projects from gas customers over the remaining nine years of the fifteen-year
22 amortization period approved by the Commission in Case 16-G-0061. The

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 relevant amortization periods for all deferred balances are noted within Schedule
2 4 of AP-3.

3 Q. Are the deferred credit and deferred charge balances the Company is proposing to
4 amortize, projected balances as of the start of the Rate Year?

5 A. Yes, the amounts shown on Schedule 4 of Exhibits AP-3 are based on projected
6 deferred balances as of the start of the Rate Year. In the Company's Update
7 filing, the Company will refine its projections to reflect additional deferral activity
8 in the intervening months, as well as any new information that impacts the
9 deferral projection.

10 Q. Please identify and explain the deferred credit and deferred charge items included
11 in the amortization of regulatory deferrals on Schedule 4 of Exhibits AP-3.

12 A. Below are detailed descriptions of each item and a designation to which
13 commodity (ies) it applies (E- Electric, G-Gas).

14 **1. Electric and Common Items**

15 **Line 1, Additional 18a Assessment:** (E, G) As result of the PSC 18A audit
16 review, the Department of Public Service ("DPS") Staff advised the Company to
17 defer the 2017-2018 fiscal period general assessment for future refund. The DPS
18 Staff reasoned that the Company had recovered the 2017-2018 fiscal period
19 general assessment under-collection amount in 18A assessment surcharge based
20 on the estimated payment amount. Therefore, the difference between final and
21 estimated general assessment payment should be deferred to the regulatory
22 deferral account for customer's benefit.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 2, AMI Customer Engagement:** (E, G) Reflects a refund over three years
2 of residual AMI Customer Engagement under-spending during prior rate plans
3 (16-E-0060 and 16-G-0061).

4 **Line 3, Carrying Charges (Net Plant Reconciliation):** (E, G) Reflects a refund
5 to customers over three years of carrying charges on net plant reconciliations,
6 inclusive of AMI, during the current rate plans.

7 **Line 4, Carrying Cost – SIR Deferred Balances:** (E, G) Reflects refunds to
8 electric customers and gas customers over three years of carrying charges accrued
9 on the variation between the forecasted balance of deferred SIR costs reflected in
10 rate base under the Company’s current rate plans and the actual deferred balances.

11 **Line 5, Customer Cash Flow Benefits- Bonus Depreciation:** (E, G)
12 Reflects a refund for electric and a recovery from gas customers over three years
13 related to reconciliations of bonus depreciation.

14 **Line 6, Energy Efficiency:** (E, G) This item represents the amounts to collect
15 from customers for Energy Efficiency program costs. The Company’s proposed
16 methodology to reconcile the revenue requirement effect of its energy efficiency
17 spending is discussed in Section XVI.A.7 of this direct testimony.

18 **Line 7, Energy Efficiency Carrying Charge:** (E, G) This item represents
19 interest to refund to customers on energy efficiency program spending under-runs
20 in accordance with the energy efficiency program reconciliation mechanism.

21 **Line 8, Federal Tax Reform Transition Period:** (E, G) This item represents
22 residual amounts to collect from customers associated with the federal income tax

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 difference between the level previously embedded in rates at 35 percent and the
2 federal tax rate of 21 percent effective for calendar year 2018 under the Tax Cuts
3 and Jobs Act of 2017.

4 **Line 9, Former Employees/Contractor Proceeding:** (E, G) Reflects a refund
5 over a three-year period of residual amounts involving the Former
6 Employees/Contractor Proceeding in accordance with the Joint Proposal adopted
7 in Cases 09-M-0114 and 09-M-0243.

8 **Line 10, Interest on Rate Case Deferrals:** (E, G) Reflects recovery from
9 electric and gas customers over a three-year period of interest on various
10 regulatory asset and liability balances.

11 **Line 11, Interest Rate True-Up (Auction Rate/ LT Debt):** (E, G) Reflects the
12 refund to electric customers and gas customers over three years of variable rate
13 debt interest cost reconciliations.

14 **Line 12, Interference:** (E, G) Reflects the recovery over a three-year period of
15 electric and gas interference costs in accordance with the interference program
16 expense reconciliation mechanism.

17 **Line 13, Management Variable Pay:** (E, G) Reflects the refund to electric
18 customers and gas customers over a three-year period of the difference between
19 the Company's actual expense for non-officer management variable pay and the
20 targeted amounts in rates.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 14, NYSIT Rate Change:** (E, G) Reflects a residual recovery from electric
2 customers and refunds to gas customers over a three-year period due to the effect
3 of a change in the NYS income tax rate.

4 **Line 15, Pensions/OPEBs:** (E, G) Reflects a recovery from electric customers
5 and gas customers over a three-year period of pensions/OPEBs costs. The electric
6 deferred pension and OPEB regulatory asset at September 30, 2021 of \$296.2
7 million is projected to decrease to a regulatory asset of \$214.2 million by the start
8 of the Rate Year. The gas deferred pension and OPEB regulatory asset at
9 September 30, 2021 of \$49.3 million is projected to decrease to a regulatory asset
10 of \$36.9 million by the start of the Rate Year. Deferral accounting for pension
11 and OPEB costs is provided for by the Commission’s Statement of Policy and
12 Order Concerning the Accounting and Ratemaking Treatment for Pensions and
13 Postretirement Benefits Other Than Pensions issued September 7, 1993 in Case
14 91-M-0890.

15 **Line 16, Prop Tax Refund (City):** (E, G) Reflects a refund over a three-year
16 period of the residual balance at September 30, 2021 for deferred property tax
17 refunds.

18 **Line 17, Property Tax Deferrals:** (E, G) Reflects a recovery of undercollection
19 from electric customers and refund of overcollection to gas customers over three
20 years of the amount under the reconciliation mechanisms included in the
21 Company’s current electric and gas rate plans.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 18, Sales and Use Tax Refund:** (E, G) Reflects a residual refund to electric
2 and gas customers over three years related to sales and use tax refunds received
3 during the previous rate plan.

4 **Line 19, SIR net of Shared Earnings:** (E, G) Reflects the recovery from electric
5 customers and gas customers over five years for SIR Expenditures including
6 MGP, Superfund, Appendix B, Astoria, Underground Storage Tank, and Other
7 remediation sites. The amounts presented in this amortization reflect both the
8 amortization of the projected deferral balance in the account as of December 2022
9 (inclusive of any shared earnings deferrals recorded prior to September 2021), as
10 well as amortization of projected spending during the Rate Year.

11 **Line 20, BQDM & REV Demo Carrying Charge Deferral:** (E) Reflects
12 forecasted refunds to electric customers over three years of carrying charges on
13 BQDM & REV Demonstration project costs that underran the rate base target
14 during the current rate plans.

15 **Line 21, Brooklyn Queens Demand Management Program (“BQDM”):** (E)
16 Reflects the recovery from electric customers over a five-year period for BQDM.
17 The five-year recovery reflects the average remaining recovery period for the
18 deferred charges inclusive of new charges projected during the linking period
19 (*i.e.*, October 1, 2021 through December 31, 2022) and Rate Year. The Company
20 estimates that it will have \$31.7 million in unrecovered expenditures by the
21 beginning of the Rate Year.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 22, Capital Expense Carrying Charge:** (E) Reflects a refund to the
2 customer over a three-year period representing residual carrying charges from
3 previous rate plans.

4 **Line 23, DSM Liquidated:** (E) Reflects refunds to electric customers over three
5 years of the terminated Demand Side Management (“DSM”) contract liquidation
6 payments received by CECONY and associated accrued interest.

7 **Line 24, Electric Service Reliability Rate Adjustment (CAIDI/ SAIFI):** (E)
8 This line item will be removed in in the Update filing. It reflects charges that are
9 refunded to customers via a surcharge mechanism and should not be included in
10 the schedule.

11 **Line 25, Electric Vehicle Rate Incentive Expense True Up:** (E) Reflects
12 refunds of residual underspend on Electric Vehicles Rate Incentive Expense from
13 Case 16-E-0060 to electric customers over three years.

14 **Line 26, Electric Vehicle Smart Charge:** (E) Reflects the recovery from electric
15 customers over a ten-year period for the Smart Charge Electric Vehicle Program.
16 Pursuant to the Commission’s rate order in Case 16-E-0060, electric rates are
17 designed for the Company to recover the costs of the equipment portion of Smart
18 Charge Program over ten years, including the overall pre-tax rate of return on
19 such costs. Therefore, the revenue requirement reflects recovery of these costs
20 over ten years through base rates.

21 **Line 27, Emergency Low Income Credit:** (E) Reflects recovery from electric
22 customers over the remaining three-years of a five-year amortization authorized

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 by the Commission for the 2020 summer cooling credit program for low income
2 customers during the COVID-19 pandemic.

3 **Line 28, Interest on Revenue Requirement Service Change:** (E) Reflects
4 recovery from electric customers over a three-year period relating to the interest
5 on the phase-in of electric base rates under Case 16-E-0060.

6 **Line 29, Legacy Meters:** As per Case 16-E-0060, the Company will begin
7 amortizing unrecovered legacy meter costs after the implementation of AMI.
8 The Company expects to complete AMI deployment in RY1. The Company
9 estimates approximately \$427M in unrecovered legacy meter costs at the
10 beginning of RY2. The unrecovered amount is currently classified as an
11 accumulated reserve for depreciation. However, per the terms of the 2016 Rate
12 Order, once AMI is fully deployed, the Company is to defer as a separate
13 regulatory asset the remaining undepreciated investment in legacy meters and
14 recover it over a 15-year period. Because the Company projects AMI to be fully
15 deployed by December 2023, the Company expects to reclassify the \$427 million
16 in estimated unrecovered costs from accumulated reserve for depreciation to a
17 regulatory asset in RY2. For further discussion, see the Depreciation Panel
18 testimony.

19 **Line 30, MTA work:** (E) Reflects the residual recovery from electric customers
20 over a three-year period for Commission-ordered work on the MTA system.

21 **Line 31, Non Wire Solutions Projects (NWS):** (E) This item represents costs to
22 recover from customers over ten years associated with NWS projects.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 32, Prop Tax Refund Town:** (E, G) Reflects a refund over a three-year
2 period of the residual balance at September 30, 2021 for deferred property tax
3 refunds.

4 **Line 33, REV Demonstration Projects:** (E) Reflects the recovery from electric
5 customers over a six-year period for REV Demonstration Projects. The
6 Commission’s December 17, 2015 Order in Case 15-E-0229 directed the
7 Company to recover REV Demonstration costs in a manner similar to its recovery
8 of BQDM costs (*i.e.*, recovery over ten years). The six-year recovery reflects the
9 average remaining recovery period for the deferred charges inclusive of new
10 charges projected during the Rate Year.

11 **Line 34, Settlement of Storms Riley and Quinn:** (E) This item reflects the
12 amounts to return to customers due to the settlement agreement reached between
13 the Company and the DPS Staff to resolve all issues in Case 19-E-0107.

14 **Line 35, Gain on Sale of North First Street:** (E) This amortization reflects
15 refunding the customers’ residual share of the gain on this property sale over three
16 years.

17 **Line 36, Gain on Sale of Kent Ave:** (E) This amortization reflects refunding the
18 customers’ residual share of the gain on this property sale over three years.

19 **Line 37, Storage Dispatch General Expenses - 10 Years:** Pursuant to the
20 Commission’s order in Case 18-E-0130, this item represents spending on dispatch
21 rights for bulk-level energy storage systems for contracts up to ten years.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 38, Storage Dispatch General Expenses - 7 Years:** Pursuant to the
2 Commission's order in Case 18-E-0130, this item represents spending on dispatch
3 rights for bulk-level energy storage systems for contracts up to seven years.

4 **Line 39, Storm Deferral:** This item represents amounts to be recovered from
5 customers under the major storm costs reconciliation mechanism.

6 **Line 40, System Peak Reduction:** (E) Reflects the recovery from electric
7 customers over a ten-year period for System Peak Reduction Projects. Pursuant
8 to the Commission's rate order in Case 16-E-0060, electric rates are designed for
9 the Company to recover the costs of the system peak reduction projects over ten
10 years, including the overall pre-tax rate of return on such costs. Therefore, the
11 revenue requirement reflects recovery of these costs over ten years through base
12 rates.

13 **Line 41, WTC Incident System Restoration Interest Accrued:** (E) Reflects a
14 residual recovery from electric customers over three years for interest accrued on
15 WTC Incident System Restoration costs.

16 **2. Additional Gas Only Items**

17 Q. Please identify and explain the items of deferred credit and deferred charge items
18 on Exhibit AP-3, Schedule 4 that pertain only to gas.

19 A. The items are as follows:

20 **Line 20, Building Meter Conversion Study:** (G) Reflects a recovery over a
21 three-year period of the residual regulatory asset balance related to this item.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 21, Gas Service Line:** (G) Reflects the recovery from gas customers over a
2 three-year period for costs deferred for incremental inspection and repair work
3 incurred as a result of the DPS Staff’s directives related to the change in the
4 definition of “Gas Service Line.” Incremental costs incurred under the current
5 rate case (19-G-0066) are being recovered through the MRA. Such recovery is
6 capped at \$99.79 million (cumulative over RY1- RY3). The Company expects to
7 defer approximately \$42 million in excess of the capped threshold due to changes
8 it made in its inspection plan to comply with the DPS Staff’s directives
9 interpreting the Commission’s Gas Service Line inspection order. The Company
10 accordingly deferred these costs as authorized by the “new laws” provisions of its
11 current rate plan. The Company is proposing that such costs, in addition to the
12 residual balance from Case 16-G-0061, be recovered through base rates. See the
13 Gas Infrastructure, Operation, and Supply Panel testimony for further discussion
14 on this deferral.

15 **Line 22, Inside Gas Meters:** (G) Reflects the refund to gas customers over a
16 three-year period for over-recovery of deferred balances, partially offset by
17 additional deferred charges incurred during the current rate plan, to relocate and
18 install gas meters that are located inside a customer’s premises outside.

19 **Line 23, Meadowlands Heaters:** (G) Reflects the recovery from gas customers
20 over a nine-year period the remaining balance for Meadowlands Heaters Projects.
21 Pursuant to the Commission’s rate order in Case 16-G-0061, the Company is

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 required to defer the cost as a regulatory asset and recover the cost over the 15-
2 year period that began January 1, 2017.

3 **Line 24, Penalties on Off-Peak/ Interruptible Customers:** (G) Reflects the
4 refund to gas customers over three years of penalties assessed to off-peak and
5 interruptible customers for not switching to alternative fuel sources when
6 required.

7 **Line 25, Pipeline Integrity:** (G) Reflects the residual refund to gas customers
8 over three years related to the annual reconciliation of KeySpan pipeline integrity
9 costs allocable to the Company pursuant to the New York Facilities Agreement.

10 **Line 26, Pipeline Upgrade Projects:** (G) Reflects recovery from gas customers
11 over a three-year period for the White Plains Gate Station. These represent the
12 costs of the project exceeding \$11 million, which is the cap for collection through
13 the MRA.

14 **Line 27, Positive Incentive Revenue Adjustments:** (G) This item reflects
15 residual amounts to refund to customers as a result of an overcollection of
16 financial incentives achieved under a previous rate plan (Case 16-G-0061).

17 **Line 28, R and D Recon:** (G) Reflects the recovery from gas customers over a
18 three-year period for the reconciliation of Gas Research and Development
19 (“R&D”) costs.

20 **Line 29, Transition Gas Adjustment:** (G) This residual balance is proposed to
21 be refunded to customers over a three-year period.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 30, Unauthorized Use Charge:** (G) This residual balance is proposed to be
2 refunded to customers over a three-year period.

3 **C. Other Operating Revenues (Exhibits AP-3, Schedule 5)**

4 Q. Is the Accounting Panel presenting data on Other Operating Revenues of the
5 Company?

6 A. Yes. Schedule 5 of Exhibits AP-3 shows the detail of Other Operating Revenues
7 in the Historic Year and the Rate Year.

8 Q. Please briefly explain what is meant by Other Operating Revenues and how they
9 affect the amount of the revenue requirement.

10 A. Other Operating Revenues include revenue collected by the Company from
11 customers or third parties such as late payment charges and facility rents.
12 Increases in such revenues serve to reduce the Company's base rate revenue
13 requirement and decreases in such revenues serve to increase the Company's base
14 revenue requirement.

15 Q. Please summarize the projected net changes to the level of Other Operating
16 Revenues from the Historic Year to the Rate Year.

17 A. For electric, the Historic Year level of \$740 million is forecast to decrease by
18 \$534 million, for a Rate Year level of \$206 million.

19 For gas, the Historic Year level of \$197 million is forecast to decrease by \$161
20 million, for a Rate Year level of \$36 million.

21 The line items included in these totals, and their corresponding figures, are
22 specified on Exhibits AP-3, Schedule 5. Note that while Other Operating

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Revenues in this schedule show significant decreases, much of that decrease is
2 driven by normalizations of items that do not have an effect on the Company's
3 revenue requirement. Such items are discussed below and can be seen within AP-
4 3, Schedule 5. Excluding the effect of normalized items (e.g., eliminating the
5 impact of surcharge activity; resetting deferrals/amortizations for a new rate case),
6 Other Operating Revenues are expected to increase, with the largest driver for
7 both electric and gas being projected increases in late payment charges relative to
8 the Historic Year.

9 Q. Are the types of Other Operating Revenues the same for electric and gas?

10 A. No, although there are some types that apply to both commodities. Below are
11 detailed descriptions of each type of expense and a designation to which
12 commodity(ies) it applies (E- Electric, G- Gas). For the Historic Year amount,
13 any adjustments, and the Rate Year forecast for each line item, please see Exhibits
14 AP-3, Schedule 5.

15 **1. Electric and Common Revenue Types**

16 Q. Please explain the items of Other Operating Revenues that pertain to electric or
17 are common to electric and gas shown on Schedule 5 of Exhibits AP-3.

18 A. The items are as follows:

19 Note that Lines 1 through 5 are various charges to customers resulting from
20 miscellaneous tariff charges. The Rate Year forecasts are based on corporate
21 budgets.

22 **Line 1, AMI Opt Out Fees:** (E,G) This line represents revenues that the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Company receives from customers who opt-out of the AMI program.

2 **Line 2, Field Collection: (E)** This line represents charges that are assessed on
3 commercial customers when the Company sends employees to the field to collect
4 overdue balances.

5 **Line 3, Meter Recovery: (E, G- Line 2)** This line represents charges to active
6 customers for payments made by the Company to apply for a court order to
7 recover the customer's meter.

8 **Line 4, No Access Charge: (E, G- Line 3)** This line represents monies collected
9 from customers because the Company was unable to access meters.

10 **Line 5, Miscellaneous Service Revenues: (E, G- Line 4)** This represents the
11 Company's forecast of various charges to customers other than AMI opt out fees,
12 field collection, meter recovery, and no access charge, which are broken out
13 separately in Lines 1 to 4 for electric and 1 to 3 for gas.

14 **Line 6, Transmission of Energy: (E)** This represents revenues from the
15 transmission of energy under bundled "grandfathered" firm transmission
16 agreements with the New York Power Authority ("NYPA") and the Long Island
17 Power Authority ("LIPA"). The forecast remains at the current level, as approved
18 in the Company's 2019 electric rate case.

19 **Line 7, Transmission Service Charges ("TSC"): (E)** This represents daily
20 transmission wheeling transactions scheduled through the New York Independent
21 System Operator ("NYISO"). The Rate Year forecast reflects the current level
22 that was approved in the Company's 2019 electric rate case.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 8, Maintenance of Interconnection Facilities:** (E) This reflects a projection
2 for the net reimbursement of certain expenses the Company incurs for
3 interconnecting customers to the Con Edison system. The Rate Year forecast
4 remains at the Historic Year level.

5 **Line 9, Excess Distribution Facilities:** (E) This represents tariff payments from
6 customers for distribution facilities provided by the Company in excess of those
7 normally provided. The Rate Year forecast is the average of these revenues for
8 the prior three years (*i.e.*, October 1, 2018 through September 30, 2021).

9 **Line 10, Late Payment Charges:** (E, G- Line 7) This includes revenues from
10 residential and non-residential customers. Due to the COVID-19 pandemic and
11 associated laws, the Company did not assess late payments charges for the
12 majority of the Historic Year. As such, the Rate Year forecast is based on the
13 level that was approved by the Commission in the Company’s 2019 electric rate
14 case. The Company applied the factor that was also approved in the Company’s
15 2019 electric rate case to the Rate Year sales revenue forecast to arrive at late
16 payment charges at the proposed rate. The Company’s proposal to reconcile these
17 revenues is discussed in Section XVI.

18 **Line 11, NYSERDA On-Bill Recovery Financing Program:** (E) When
19 homeowners obtain a loan from the New York State Energy Research and
20 Development Authority (“NYSERDA”), they can repay the loan through their
21 utility bill by using the on-bill recovery financing program. The Company then
22 remits the money to NYSERDA. NYSERDA pays the Company a one-time fee

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 of \$100 for each loan and a fee of one percent of the amount of each loan to
2 defray costs directly associated with implementing the program The Rate Year
3 forecast is the average of these revenues for the prior three years (*i.e.*, October 1,
4 2018 through September 30, 2021).

5 **Line 12, Revenues From The Learning Center:** (E, G- Line 8) These revenues
6 result from providing training and conference services to outside parties. The
7 Rate Year forecast is based on the Company’s 2021 budget for such revenues
8 with a 2% escalation per year.

9 **Line 13, Wholesale Distribution Service:** (E) This line item represents revenues
10 the Company receives for delivery service under the Wholesale Distribution
11 Service pursuant to the Open Access Transmission Tariff (“OATT”). The Rate
12 Year forecast remains at the Historic Year level.

13 **Line 14, Proceeds from Sales of TCCs:** (E) This represents projected auction
14 proceeds from the sale of Transmission Congestion Contracts (“TCC”). The Rate
15 Year forecast is based on the current level that was approved by the Commission
16 in the Company’s 2019 electric rate case. Variances between the actual amount
17 of revenues achieved and the levels included in rates are surcharged or passed
18 back to customers through an existing tariff mechanism in the MAC.

19 **Line 15, POR Discount:** (E, G-Line 9) This represents the discount on
20 receivables purchased by the Company from energy services companies
21 (“ESCOs”). The Company’s proposal to reconcile these revenues is discussed in
22 Section XVI. The Rate Year forecast reflects the current Historic Year level.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 16, Substation Operation Services (E)** These are revenues associated with
2 work done for third parties. The Rate Year forecast is the average of these
3 revenues for the prior three years (*i.e.*, October 1, 2018 through September 30,
4 2021).

5 Please note that the Company performs accommodation billings pursuant to
6 General Rule 17.2 of the Company’s electric tariff based on the elements of cost
7 identified in General Rule 17.3. The Electric Rate Panel has updated a number of
8 tariffs that outline the overhead rates currently applied to accommodation billings.
9 If the updated overhead calculations and associated tariff are approved by the
10 Commission, the Company would reflect these updates effective at the start of the
11 Rate Year.

12 Q. Would you like to make additional comments regarding the electric
13 accommodation work that the Company performs for third parties?

14 A. General Rule 17.3 of the Company’s electric tariff lists the elements of cost
15 charged for special services performed by the Company pursuant to General Rule
16 17.2.

17 The Company is modifying the percentages to be applied to certain cost elements
18 based on the average of work performed for the 12 months ended 2019, the 12
19 months ended 2020 and the 11 months ended November 2021. The stores
20 handling rate will increase from 11 percent to 13 percent; the overhead rate for
21 Electric Engineering and Administrative and General (“A&G”) will increase from
22 15 percent to 17 percent; the overhead rate for A&G only will increase from 1

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 percent to 3 percent; and when Construction Management Oversight (“CMO”) is
2 required, the overhead rate for CMO, Electric Engineering and A&G will increase
3 from 19 percent to 35 percent.

4 As indicated in the Electric Rate Panel’s testimony, the tariff leaf for General
5 Rule 17.3 (Leaf 126) has been updated to reflect these new percentages.

6 Q. What additional comments would you like to make regarding the gas
7 accommodation work that the Company performs for third parties?

8 A. General Information IV. 2 of the Company’s gas tariff lists the elements of cost
9 charged for special services performed by the Company.

10 The Company is modifying the percentages to be applied to certain cost elements
11 based on the average of work performed for the 12 months ended 2019, the 12
12 months ended 2020, and the 11 months ended November 2021. The stores
13 handling rate will increase from 11 percent to 13 percent; the overhead rate for
14 Gas Engineering and A&G will increase from 7 percent to 10 percent; the
15 overhead rate for A&G only will increase from 1 percent to 3 percent; and when
16 CMO oversight is required, the overhead rate for CMO, Gas Engineering and
17 A&G will increase from 13 percent to 23 percent.

18 As indicated in the Gas Rate Panel’s testimony, the tariff leaf for General
19 Information IV. 2 (Leaf 117) has been updated to reflect these new percentages.

20 **Line 17, Management Fees:** (E) This line represents revenues the Company
21 receives for administration work performed pertaining to its Areawide Public

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Utilities Contracts. The Rate Year forecast reflects the current Historic Year
2 level.

3 **Line 18, Net Unbilled Revenues:** (E, G-Line 10) This item represents the change
4 in the unbilled revenue level recorded on the Company's books and records
5 during the 12 months ended September 30, 2021. The accounting for unbilled
6 revenues has no impact on the revenue requirement.

7 **Line 19, Reconnection Fee:** (E, G- Line 6) This represents reconnection fees
8 applied to customers who require service restoration. The Rate Year forecast is
9 described in the testimony of the Customer Operations Panel.

10 **Line 20, Reconnection Fee Waiver:** (E, G- Line 5) This line represents waiver of
11 reconnection fees for low income customers who require service restoration. The
12 Rate Year amount represents targets developed by Customer Operations. Refer to
13 Customer Operations Panel's testimony for discussion of such targets.

14 **Line 21, DG Project Application Fees:** (E) This line represents the revenues the
15 Company receives for solar applications. The Rate Year forecast is set at the
16 Historic Year level.

17 **Line 22, Miscellaneous:** (E, G- Line 13) This line includes various small items.
18 For gas, the Company did not include a Rate Year forecast for revenues it
19 receives for penalties assessed on interruptible customers who failed to submit
20 affidavits, since it is difficult to forecast the activities for this item and there was
21 no activity in the Historic Year. The Rate Year forecast for other items in this
22 line is based on the Historic Year level.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 23, Rent from Electric Property:** (E) This represents amounts billed by the
2 Company to third parties for their use of Company property such as poles,
3 easements, and transmission and distribution facilities. The forecast of revenue
4 reflects an analysis of the terms of the Company’s rental agreements.

5 **Line 24, Interdepartmental Rents:** (E, G-Line 15) This represents carrying
6 charges billed to one department of the Company for its use of facilities by
7 another department of the Company. Joint use facilities include the head house at
8 Hell Gate Station (electric and gas); facilities at the East River station (electric
9 and steam); the Ravenswood Tunnel, Flushing Tunnel, and Astoria Tunnel
10 (electric and gas); and the Hudson Avenue Tunnel (electric and steam). Carrying
11 charges include components of rate of return on net plant investment,
12 depreciation, and taxes. Changes in revenues for one department are offset by
13 changes in interdepartmental rent expense for other departments.

14 **Note for Following Line Items:** Lines 25 through 31 (E, G- Lines 20 through
15 37), are offset in other places on the income statement, such as sales revenues or
16 included in the MSC / MAC. Lines 32 through 44 (E, G- Lines 38 through 50)
17 are deferrals/reconciliations. Unless otherwise noted, no activity is projected for
18 these items for the Rate Year.

19 **Line 25, RDM Reconciliation:** (E, G-Line 27) This represents the accounting
20 adjustments recorded by the Company to implement the Revenue Decoupling
21 Mechanism (“RDM”) in place under its current electric and gas rate plans. It

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 relates to the deferral of the variation between the actual delivery revenues billed
2 and the established target level.

3 **Line 26, Indian Point Energy Center Programs:** (E) This represents the
4 carrying cost on the deferred expenditures related to the Indian Point Energy
5 Center programs. This cost was recovered through the MAC.

6 **Line 27, NEIL Dividend:** (E) This item reflects the Nuclear Electric Insurance
7 Limited (“NEIL”) dividend received by the Company. This item is refunded to
8 customers through the MAC.

9 **Line 28, MFC – Lost Supply Revenues:** (E) This represents the variation
10 between the level of Merchant Function Charge (“MFC”) supply revenues
11 collected from full service customers and the actual amounts received during the
12 Historic Year. The variation is the result of customers switching to ESCOs, who
13 provide energy to those customers.

14 **Line 29, Hedging Program Interest:** (E, G- Line 24) This line reflects Historic
15 Year reclassification of interest assessed on funds advanced for the program to
16 interest income.

17 **Line 30, Price Guarantee Program:** (E) This line represents collections related
18 to the program. The Company developed the Commission-approved Innovative
19 Pricing Pilot to test new rate designs. Such collections are recovered through
20 MAC.

21 **Line 31, ESCO/Marketers – Bill Charges:** (E, G- Line 25) These are billing and
22 payment processing charges the Company collects from ESCOs for consolidated

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 billing services. These revenues were excluded from the Rate Year forecast of
2 Other Operating Revenues and are included in Sales Revenue.

3 **Line 32, Interest Rate True-Up:** (E, G- Line 49) This represents the net
4 variation between the cost of variable rate long-term debt reflected in rates and
5 the Company's actual cost during the Historic Year. The interest rates for
6 variable rate long-term debt will be reset in this case and, as a result, this variation
7 is assumed to be zero in the Rate Year.

8 **Line 33, Net Plant Carrying Charges:** (E, G-Line 41) This represents amounts
9 deferred for credit to customers resulting from net additions to utility plant being
10 less than reflected in rates.

11 **Line 34, Interference Reconciliation:** (E, G-Line 48) This represents the
12 deferrals for interference reconciliation as compared to target levels reflected in
13 rates.

14 **Line 35, Amortization of Deferrals:** (E, G-Line 39) This reflects the
15 amortization of various deferred costs that were amortized under the current rate
16 plan.

17 **Line 36, Management Variable Pay (“MVP”):** (E, G-Line 50) This item
18 represents revenues deferred under the MVP reconciliation mechanism included
19 in the current rate plans.

20 **Line 37, Accounting Reserve:** (E, G-Line 40) This item represents reserves set
21 up by the Company for various purposes, including shared earnings accruals.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 38, Emergency Low Income Credit:** (E) This item represents deferrals and
2 related interest for temporary emergency financial relief for low-income bill
3 discount program customers.

4 **Line 39, Federal Tax Reform Transition Period:** (E, G-Line 47) This item
5 represents the deferrals of over-refund of tax sur credits to the customers.

6 **Line 40, ERRP Major Maintenance:** (E) The Company’s current electric rate
7 plan reflects \$8.798 million for the ERRP maintenance costs per year. This item
8 represents accounting entries related to the reconciliation of actual ERRP
9 maintenance costs with the amount included in rates.

10 **Line 41, Carrying Charge on Energy Efficiency Programs:** (E, G-Line 45)
11 These lines represent deferrals resulting from reconciling actuals to target levels
12 set in the current rate plan for Energy Efficiency related programs, SmartCharge
13 Program, the BQDM program, and REV demonstration projects.

14 **Line 42, Climate Study:** (E, G-Line 46) This represents expenses incurred for the
15 Climate Change Vulnerability Study that is collected through the MAC.

16 **Line 43, GRT Public Utility Tax:** (E & G – Line 38) This line reflects gross
17 receipts taxes on revenues other than the sale of gas. No activity is projected for
18 the Rate Year.

19 **Line 44, Revenue Imputation - Cases 09-M-0114 and 09-M-0243:** (E & G –
20 Line 51) This represents the revenues recorded by the Company to offset the
21 revenue requirement effect of certain capital expenditures in order to limit
22 recovery to the level approved by the Commission in its April 20, 2016 Order in

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Cases 09-M-0114 and 09-M-0243. The Company will adjust this amount on
2 Update, if and to the extent necessary and appropriate, consistent with
3 Commission's Order.

4 **Line 45, NYPA Related Revenue:** (E, G - Line 52) This line represents NYPA
5 related revenues that are forecasted in sales revenues. Therefore, the Historic
6 Year level of this item is normalized in this schedule.

7 **2. Additional Gas Only Revenues Types**

8 Q. Please explain the items of Other Operating Revenues representing revenue
9 collected by the Company from customers or third parties that pertain only to gas
10 shown on Schedule 5 of Exhibit AP-G3.

11 A. They are as follows:

12 **Line 11, Reimbursement To National Grid – Governor's Island:** (G) This
13 represents National Grid's share of the revenues earned from gas sales to the
14 United States Coast Guard in accordance with the Governors' Island agreement
15 and serves to offset the gross amount (including National Grid's share) recorded
16 in sales revenues. Embedded in the sales forecast is the historic level of revenue
17 from National Grid. The Rate Year forecast was kept at the Historic Year level.

18 **Line 12, R&D Ventures:** (G) This represents royalties the Company receives
19 from other gas utilities. The Rate Year forecast is the average of these revenues
20 for the prior three years (*i.e.*, October 1, 2018 through September 30, 2021).

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 16, New York Facilities:** (G) This represents carrying charges billed by
2 Con Edison to National Grid in accordance with the provisions of the New York
3 Facilities Agreement. The Rate Year forecast is at the Historic Year level.

4 **Line 17, Real Estate Rents:** (G) This revenue primarily represents the gas
5 department's share of rental income from leasing property at the Company's
6 central headquarters building.

7 **Line 18, NYPA Variable and Maintenance and Line 19, Steam Department –**
8 **ERRP Incremental Charges:** (G) These two items, which are grouped under the
9 heading "transmission system reinforcement recoveries" represent recoveries of
10 CECONY's share of gas transmission facilities reinforcement costs from the
11 generators that use gas that is delivered by the Company. Line 18 represents
12 payments from generators for variable operating costs and upkeep of the Hunts
13 Point Compressor. The Rate Year forecast is the average of these revenues for
14 the prior three years (*i.e.*, October 1, 2018 through September 30, 2021). Line 19
15 represents recoveries of reinforcement costs from the Steam Department. There
16 are no additional recoveries from the Steam Department projected. As a result,
17 the Rate Year forecast for these revenues remains at the Historic Year level.

18 **Note for Following Line Items:** Lines 20 through 37 are offset in other places on
19 the income statement, such as sales revenues or included in the MSC / MAC.
20 Lines 38 through 50 are deferrals/reconciliations. Unless otherwise noted, no
21 activity is projected for these items for the Rate Year.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Lines 20-22, Non-Firm Revenues:** (G) These revenues are generated from
2 serving non-firm customers and from efforts to maximize the value of assets
3 obtained to meet the Company’s firm customer requirements. These revenues are
4 currently subject to the non-firm revenue sharing mechanism set forth in the
5 current gas rate plan, which the Company is proposing to continue without
6 change. The Company’s filing reflects a \$65 million imputation in base rates.

7 ○ Line 20, Gas Purchased from Transportation Customers: This line
8 represents “cash out” transactions with gas marketers.

9 ○ Line 21, Gas Penalties – Off Peak/Interruptible: This line represents
10 penalties assessed to off-peak and interruptible customers for not
11 switching to alternative fuel sources when required.

12 ○ Line 22, Non-firm Interruptible Sales Credit: This line represents service
13 fees related to off-system gas sales.

14 **Line 23, Asset Management Revenue:** (G) This item reflects revenues received
15 for capacity releases. We do not reflect a Rate Year amount for this item in Other
16 Operating Revenues because it is included as part of the non-firm revenue target.

17 **Line 26, R&D True-Up and Surcharge (Millennium Fund):** (G) This line
18 reflects the deferrals related to the R&D reconciliation that was implemented as
19 part of the current gas rate plan. Such deferrals were normalized from the
20 Historic Year. The line also contains deferral and matching of revenues collected
21 from customers through the MRA to fund certain gas R&D projects pursuant to
22 the Commission’s order dated April 4, 2000 in Case 99-G-1369 with projected

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 R&D expenses. The revenues are referred to as the “Millennium Fund.” The
2 Rate Year forecast for such items is zero.

3 **Line 28, Low Income Program:** (G) This line represents the accounting entries
4 related to the deferral of low income discounts under the current gas rate plan.

5 **Line 29, Gas In Storage Reconciliation:** (G) This line represents the
6 reconciliation of actual working capital for gas in storage compared to the level
7 set under the current gas rate plan. Working capital on gas in storage is recovered
8 volumetrically through the MFC and the MRA, instead of through base delivery
9 rates. The revenues derived for working capital on gas in storage is calculated
10 using the Company’s allowed rate of return on the “base” or lowest inventory
11 level of gas in storage during the year and the current other cost of capital rate on
12 the average balances above the base amounts. In order to eliminate any impact on
13 the Company’s revenue requirement resulting from differences on the carrying
14 cost of gas in storage, we have eliminated both the gas in storage surcharge
15 revenues from the forecast and the historic level of storage gas from rate base as
16 shown in Exhibit AP-G2.

17 **Line 30, Credits and Collections:** (G) This line represents the accounting entries
18 related to the deferral of the MFC Credits and Collections charges under the
19 current gas rate plan.

20 **Line 31, Gas SBC Revenue Deferral:** (G) This line represents an accounting
21 entry related to the gas System Benefit Charge. The accounting entries record any
22 over/under collection from customers for amounts expensed.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 32, Supply Related Charge Revenue:** (G) This line represents the
2 accounting entries related to the deferral of the difference between target and
3 actual amounts collected for MFC-related charges approved by the Commission.

4 **Line 33, Gas Daily Delivery Service:** (G) This line represents the accounting
5 entries related to the Gas Daily Delivery Service Program passed through the
6 GCF.

7 **Line 34, SBU Balancing Charges:** (G) This line reflects the revenues recorded
8 for gas transportation and balancing service to the Company’s Steam Business
9 Unit.

10 **Line 35, Gas Adjustment Clause (“GAC”) Interest:** (G) The balance represents
11 the accrued interest applicable to the GAC surcharge/refund. If the cost of gas to
12 the Company that is recoverable from firm customers exceeds or falls below the
13 total amount actually recovered through both the base rates and GAC revenues,
14 the difference between the recoverable amount and the amount actually recovered
15 is deferred, and is subsequently charged or refunded to customers, as appropriate.
16 Pursuant to 16 New York Codes Rules & Regulations (“NYCRR”) Section 720-6.
17 5, interest is accrued on these balances in the deferral accounts.

18 **Line 36, Gas Service Line Cost Recovery:** (G) This line represents actual costs
19 and associated carrying costs incurred above those reflected in the revenue
20 requirement for gas service lines that are recovered through the MRA.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 37, Prior Gas Supplier Interest Refund:** (G) This line represents refunds
2 of the excess charges paid to the gas suppliers due to rate changes. Such refunds
3 are recovered through the MRA.

4 **Line 42, Incentive for NY Facilities Agreement:** (G) This line represents
5 incentives and associated interests that are returned back to the customers
6 associated with the NY Facilities Agreement that are passed through the MRA.

7 **Line 43, Interest Accrual on Deferred Leak Prone Pipe O&M:** (G) This line
8 represents the carrying costs for leak prone pipe O&M expenses deferred under
9 the Safety and Reliability Surcharge Mechanism (“SRSM”) that are recovered
10 through the MRA. SRSM allows the Company to recover the carrying costs on
11 incremental capital expenditures and O&M expenses associated with the
12 replacement of leak prone pipe above the levels established under the current Gas
13 Rate Plan, and incremental O&M expenses associated with lowering the
14 Company’s leak backlog.

15 **Line 44, Pipeline Recovery:** (G) This line represents the deferral of pipeline
16 costs and associated carrying costs under the Pipeline Facilities Adjustment
17 component of the MRA.

18 **D. O&M Expenses (Exhibits AP-3, Schedule 6)**

19 Q. Please explain the development of O&M Expenses shown on Schedule 6 of
20 Exhibits AP-3.

21 A. Detailed calculations of the O&M amounts are shown on Schedule 6 of Exhibits
22 AP-3. This page shows the derivation of the projected expenses in the Rate Year

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 from the Historic Year expense. Various Company witnesses, including the
2 Accounting Panel, will explain any adjustments.

3 Q. Please summarize the projected net changes to the level of O&M Expenses during
4 the Historic Year to the Rate Year.

5 A. For electric, the Historic Year level of \$3,839 million is forecasted to decrease by
6 \$341 million for a Rate Year level of \$3,498 million.

7 For gas, the Historic Year level of \$865 million is forecasted to increase by \$450
8 million for a Rate Year level of \$1,315 million.

9 Please note that these figures represent overall electric and gas O&M expenses,
10 which include fuel and purchase power and that normalizes a number of other
11 types of reconciled costs in the Rate Year that do not impact the revenue
12 requirement. For gas, \$421 million of the increase is attributable to fuel costs.
13 For both electric and gas services, the non-reconciled portions of O&M expenses
14 are increasing from the Historic Year to the Rate Year.

15 **1. Development of O&M**

16 Q. How did the Company develop O&M costs for the Rate Year?

17 A. The Company began with Historic Year O&M costs and then made adjustments
18 to bring the costs forward to the Rate Year. Adjustments made to expense levels
19 were due to normalizations, program changes, wage escalation, and general
20 escalation. The Company's approach to each adjustment is described below
21 beginning with how we developed general and labor escalation factors.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Q. Is the Company proposing a reconciliation of the costs associated with inflation in
2 this case?

3 A. Yes; please refer to Section XVI of testimony for a discussion of the Company's
4 proposed reconciliation.

5 **b. Labor Escalation (Exhibits AP-3, Schedules 15.1-15.3)**

6 Q. Please describe the labor cost escalation factor used to develop Rate Year labor
7 cost.

8 A. The development of the labor escalation factor is presented in Schedules 15.1,
9 15.2, and 15.3 of Exhibits AP-3 for RY1-3, respectively. We applied the
10 calculated labor escalation factor to Historic Year labor expense amounts, labor
11 expense normalizations, and labor expense program changes to determine the
12 total Rate Year level of labor expense for electric and gas services.

13 Q. How was the labor escalation factor calculated?

14 A. The labor escalation factor is meant to reflect the labor expense increase
15 associated with an average employee from the Historic Year to the Rate Year,
16 independent of the effects of normalizations and program changes. As shown in
17 the exhibits, the labor escalation factor is the weighted average of increase in
18 management and weekly average straight time salaries and wages from the
19 Historic Year to the Rate Year. For weekly employees, we included a general
20 wage increase of 3.0 percent effective in July of each year. Semi-annual
21 progression increases of 0.4 percent in October and February of each year are also
22 included, but applied to only 56.8 percent of total weekly employees. The annual

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 and progression wage increase rates are all pursuant to the collective bargaining
2 agreements with union employees. The 56.8 percent figure is based on a five-
3 year (2017-2021) average of the actual number of weekly employees that received
4 progression increases as employees already at the maximum pay rate for their job
5 title do not receive progressions. For management employees, we assumed
6 annual 3.0 percent merit increases in April of each year.

7 Q. Did the Company apply a one percent productivity adjustment?

8 A. Yes, the Company reduced the labor escalation factor by 2.24% for Rate Year 1
9 and 1% each year for Rate Year 2 and Rate Year 3.

10 **c. Normalization (Exhibits AP-3, Schedule 16)**

11 Q. Please describe the normalization of O&M costs for the Rate Year.

12 A. The Company eliminated from the elements of expense (“EOE”) those amounts
13 that are nonrecurring, out of period, or for which the Company has decided to not
14 seek recovery in this proceeding. The Company also annualized amounts that
15 were not fully recognized in the Historic Year in order to develop Rate Year
16 costs. Additional detail on normalized costs is found within Schedule 16 of
17 Exhibits AP-3.

18 **d. Program Changes (Exhibits AP-3, Schedule 16)**

19 Q. Please describe how the Company adjusted O&M costs to reflect program
20 changes.

21 A. The Company adjusted O&M costs based on documented, planned program
22 changes that are driven by the business needs of the Company. Estimated costs

DIRECT TESTIMONY – ACCOUNTING PANEL

1 associated with these programs and additional detail regarding these costs are
2 included in Schedule 16 of Exhibits AP-3.

3 **e. Common Expense Allocation**

4 Q. Please explain how common O&M costs are allocated among electric, gas, and
5 steam services for the Rate Year.

6 A. The Company used existing allocation factors the Commission adopted in the
7 Company's current rate plans. Customer Operations and Customer Services
8 expenses were allocated 84 percent to electric and 16 percent to gas. A&G
9 expenses were allocated 77.60 percent to electric, 15.95 percent to gas, and 6.45
10 percent to steam.

11 Q. How did you allocate common expenses among electric, gas and steam services if
12 they applied to O&R as well as CECONY?

13 A. The Company used the existing common expense split between CECONY and
14 O&R, which is 92.45 percent allocated to CECONY and 7.55 percent allocated to
15 O&R. This rate is updated annually by the Company using a three-part formula
16 of revenues, assets, and payroll. To calculate the common expense allocation
17 among electric, gas and steam services if they applied to O&R as well as
18 CECONY, we took CECONY's existing allocation factor for each service (*i.e.*,
19 Customer Operations and Customer Service expense – 84 percent electric, 16
20 percent gas; A&G expense – 77.60 percent electric, 15.95 percent gas, 6.45
21 percent steam) and multiplied it by CECONY's share of 92.45 percent. This
22 resulted in Customer Operations and Customer Service expenses being allocated

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 77.66 percent to CECONY electric, 14.79 percent to CECONY gas, with the
2 remaining 7.55 percent allocated to O&R, and A&G expenses being allocated
3 71.74 percent to CECONY electric, 14.75 percent to CECONY gas, 5.96 percent
4 to CECONY steam, with the remaining 7.55 percent allocated to O&R.

5 Q. What is the Company's methodology for allocating common expenses incurred at
6 the parent company, Consolidated Edison, Inc. ("CEI"), and passed down to its
7 subsidiaries?

8 A. Common expenses incurred by CEI, which are not directly charged services, are
9 allocated under a three-factor formula to its subsidiaries. As agreed upon in the
10 current rate plan, the Company allocates expenses for these intercompany shared
11 services for each Rate Year under a three-factor allocation using forecasted
12 operating revenue, segment payroll, and assets for each CEI subsidiary. If a CEI
13 subsidiary has equity method investments, the revenue factor for that subsidiary
14 will include a proportionate share of its equity method investments' revenues.

15 **2. Line Item Descriptions (Exhibits AP-3, Schedule 6)**

16 Q. Please describe the various line items set forth in Exhibits AP-3, Schedule 6.

17 A. We set forth below detailed descriptions of each type of expense and a
18 designation to which commodity(ies) it applies (E- Electric, G-Gas). For those
19 line items that include common expenses, we indicate the total Company common
20 expense amount and the portion allocated to electric and gas services. The
21 remaining unstated amounts are allocated to steam service. For the Historic Year

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 amount, any adjustments, and the Rate Year forecast for each line item, please see
2 page 3 of Schedule 1.

3 **Line 1, Fuel and Purchased Power:** (E, G) This item tracks projected fuel and
4 purchased power costs. The Rate Year forecast includes program changes
5 discussed in detail in the direct testimony of the Electric and Gas Volume and
6 Revenue Forecasting Panels.

7 **Line 2, A&G, Health Ins. Cap:** (E, G) This line represents the capitalized
8 portion of A&G overhead costs applicable to construction activities, including
9 general office salaries and expenses, and health insurance premiums. The
10 Company escalated the Historic Year expense adjusted by a normalization for
11 COVID-related activity by the labor escalation factor to arrive at the Rate Year
12 level.

13 **Line 3, Advanced Metering Infrastructure:** (E, G) This item represents historic
14 costs and program changes reflecting the implementation and maintenance of the
15 AMI systems and communications infrastructure. Expenses and program changes
16 also reflect customer engagement expenses covering the AMI deployment period.
17 Further discussion of the AMI program changes can be found within the
18 Customer Energy Solutions (“CES”) Panel testimony. We then escalated the
19 Historic Year expense and program changes by the general escalation factor to
20 arrive at the Rate Year amount.

21 **Line 4, Bargaining Unit Contract Cost:** (E, G) This item represents a program
22 change for annualized costs associated with negotiation and strike contingency

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 efforts discussed in detail in the direct testimony of the Shared Services Panel.

2 We then escalated the Historic Year expense and program changes by the general
3 escalation factor to arrive at the Rate Year amount.

4 **Line 5, Bond Administration & Bank Fees:** (E, G) This item includes expenses
5 for charges such as bank fees, revolving credit fees, line of credit fees, and credit
6 rating agencies fees. The Historic Year expense is escalated by the general
7 escalation factor to arrive at the Rate Year level.

8 **Line 6, Company Labor- Advanced Metering Infrastructure:** (E, G) This item
9 reflects labor charges related to the Company's AMI program (non-labor AMI
10 costs are discussed above on Line 3). The Rate Year forecast for electric and gas
11 include program changes discussed in detail in the direct testimony of the CES
12 Panel. We then escalated the Historic Year expense and program changes by the
13 labor escalation factor to arrive at the Rate Year amount.

14 **Line 7, Company Labor- Central Engineering:** (E) This item reflects labor
15 charges related to the Company's Central Engineering departments. We escalated
16 the Historic Year expense by the labor escalation factor to arrive at the Rate Year
17 amount.

18 **Line 8, Company Labor- Construction Management:** (E, G) This item reflects
19 labor charges related to the Company's Construction Management departments.
20 We escalated the Historic Year expense by the labor escalation factor to arrive at
21 the Rate Year amount.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 9, Company Labor - Corporate & Shared Services:** (E, G) The
2 Company's Corporate & Shared Services departments include, among others,
3 Finance, Environmental Health & Safety, Emergency Management, Energy
4 Management, Facilities & Field Services, Government Relations, Human
5 Resources, Information Technology, Learning & Inclusion, Legal Services, Public
6 Affairs, Office of the Secretary, President & Staff, R&D, Security, Strategic
7 Planning and Supply Chain.

8 The total Rate Year forecast includes a number of program changes, which are
9 discussed in detail in the direct testimony of the Shared Services Panel. We then
10 escalated the Historic Year expense and program changes by the labor escalation
11 factor to arrive at the Rate Year amount.

12 **Line 10, Company Labor – Customer Energy Solutions** (E, G)

13 This item reflects labor charges related to the Company's Customer Energy
14 Solutions group. The Rate Year forecast includes program changes for positions
15 in programs such as NYNE EE, NYNE Heat Pumps (Clean Heat), and energy
16 storage. This line item also includes a normalization to reflect a full year of salary
17 for newly added employees. Further discussion of the program changes can be
18 found in the direct testimony of the CES Panel. We then escalated the Historic
19 Year expense, program changes, and normalization by the labor escalation factor
20 to arrive at the Rate Year amount.

21 **Line 11, Company Labor – Customer Information System** (E, G)

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 This item reflects labor charges related to the Company's new CSS. We then
2 escalated the Historic Year expense by the labor escalation factor to arrive at the
3 Rate Year amount.

4 **Line 12, Company Labor - Customer Operations:** (E, G) This item reflects
5 labor charges related to the Company's Customer Operations departments. The
6 Rate Year forecast for electric and gas include a number of program changes
7 discussed in detail in the direct testimony of the Customer Operations Panel. We
8 then escalated the Historic Year expense and program changes by the labor
9 escalation factor to arrive at the Rate Year amount.

10 **Line 13, Company Labor- Electric Operations:** (E, G) This item relates to
11 labor charges related to the Company's Electric Operations departments. The
12 Rate Year forecast for electric includes program changes discussed in detail in the
13 direct testimony of the EIOP. We then escalated the Historic Year expense and
14 program changes by the labor escalation factor to arrive at the Rate Year amount.

15 **Line 14, Company Labor- Gas Operations:** (E, G) This item relates to labor
16 charges related to the Company's Gas Operations departments. The Rate Year
17 forecast for gas includes program changes discussed in detail in the direct
18 testimony of the GIOSP. We escalated the Historic Year expense and program
19 changes by the labor escalation factor to arrive at the Rate Year amount.

20 **Line 15, Company Labor- Production:** (E) This item relates to labor charges
21 related to the Company's Production departments. We escalated the Historic
22 Year expense by the labor escalation factor to arrive at the Rate Year amount.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 16, Company Labor- Substation Operations (“SSO”):** (E) This item
2 relates to labor charges related to the Company’s SSO departments. We then
3 escalated the Historic Year expense by the labor escalation factor to arrive at the
4 Rate Year amount.

5 **Line 17, Company Labor- System & Transmission Operations (“STO”):** (E)
6 This item relates to labor charges related to the Company’s STO departments.
7 We escalated the Historic Year expense and the program changes by the labor
8 escalation factor to arrive at the Rate Year amount. The program changes are
9 explained in further detail within the EIOP testimony.

10 **Line 18, Corporate and Shared Services:** (E, G) This item relates to non-labor
11 charges for the Company’s Corporate & Shared Services departments that are not
12 already covered in another line item (*e.g.*, Line 25, Environmental Affairs, Line
13 29, Facilities & Field Services, Line 30, Finance & Accounting Operations, Line
14 32, Information Technology, Line 60, Research & Development, and Line 61,
15 Security).

16 The Rate Year forecast for electric and gas reflects a program change related to
17 the Diversity & Inclusion’s DE&I Employee Survey, which is discussed in the
18 direct testimony of the Shared Services Panel. The Rate Year forecast for electric
19 and gas also reflects a program change related to Emergency Preparedness related
20 to Weather Monitoring Stations (NYC Micronet) which is discussed in the direct
21 testimony of Shared Services Panel. The electric and and gas rate year forecast
22 also reflects a program change from the Finance department which is related to

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Climate Risk and Resiliency program and is discussed in detail in the direct
2 testimony of Storm Response and Resiliency Panel.

3 Additionally, the Rate Year forecast for gas also reflects a program change related
4 to implementing a Gas Distribution Forecasting Model which is discussed in the
5 direct testimony of the GIOSP.

6 We escalated the Historic Year expense and program changes discussed above by
7 the general escalation factor to arrive at the Rate Year amount.

8 **Line 19, Corporate Fiscal Expense:** (E, G) This item includes costs of annual
9 reporting services and meeting, trustee and committee fees including equity
10 grants, as well as stock transfer agent fees and stock exchange registration fees.

11 We escalated the Historic Year expense by the general escalation factor to arrive
12 at the Rate Year amount.

13 **Line 20, Customer Energy Solutions:** (E, G) This item relates to non-labor
14 charges for the Company's Customer Energy Solutions departments (e.g.,
15 Demonstration Projects, EE, Rate Engineering, and Utility of the Future) that are
16 not otherwise reflected in Line 21 (Customer Information System). This item
17 includes a number of program changes discussed further in the CES Panel's direct
18 testimony. This line also includes a normalization of one-time charges occurring
19 in the Historic Year.

20 We escalated the Historic Year expense, program changes, and normalization by
21 the general escalation factor to arrive at the Rate Year amount.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 21, Customer Information System:** (E, G) This line item represents O&M
2 costs associated with implementing the Company's new CSS. The program
3 change is discussed further within the Customer Operations Panel.

4 **Line 22, Dynamic Load Management Programs:** (E) The Rate Year forecast is
5 normalized to remove from the revenue requirement an expense that is recovered
6 through surcharge. The Company's filing does not include any projected
7 recovery of the cost of dynamic load management programs through surcharge,
8 thus there is no impact on the Company's revenue requirement.

9 **Line 23, Duplicate Misc. Charges:** (E, G) This item is comprised of credits for
10 charges made to operating expenses or other accounts for the Company's own use
11 of utility service. The Rate Year amount was held constant at the Historic Year
12 expense.

13 **Line 24, Employee Welfare Expense:** (E, G) In its direct testimony, the
14 Company's Compensation and Benefits Panel discuss costs and programs totaling
15 \$166 million in the Rate Year (\$138 million allocated to electric and \$28 million
16 allocated to gas). In addition to the amounts supported by the Compensation and
17 Benefits Panel, other employee welfare related fees such as service awards and
18 administration support are included in this line and escalated using the labor
19 escalation factor. In addition, costs associated with the Deferred Income Plan are
20 normalized out of the historic period because this pertains to officers' benefits.
21 The Company is not seeking to recover these costs through rates in this

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 proceeding, but the Company reserves its rights to seek the recovery of such costs
2 in future rate proceedings.

3 **Line 25, Environmental Affairs:** (E, G) This item relates to the non-labor
4 charges related to the Company's Environmental Health & Safety departments.
5 We escalated the Historic Year expense by the general escalation factor to arrive
6 at the Rate Year amount.

7 **Line 26, ERRP Major Maintenance:** (E) ERRP Major Maintenance costs are
8 fully reconciled. The Rate Year expense of \$4.385 million represents the current
9 forecast of annual major maintenance expenses. The Company recorded a
10 normalization to present both the cost and reconciliation to rate level of ERRP
11 major maintenance as expense rather than partially as a reduction to other
12 operating revenue. The Company will revisit the five-year forecast for major
13 maintenance expenses during the preliminary update to determine whether
14 refinement of the annual allowance is appropriate.

15 **Line 27, Executive MVP:** (E, G) The Company normalized the Rate Year
16 forecast to eliminate the cost of the executive variable pay plan and long-term
17 equity grants. The Company is not seeking to recover these costs through rates in
18 this proceeding, but reserves its rights to seek the recovery of such costs in future
19 rate proceedings.

20 **Line 28, External Audit Services:** (E, G) The Company contracts for services
21 provided by PwC, such as auditing, research, and training. The Rate Year
22 forecast includes a normalization due to a change in the external auditor's billing

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 cycle which understated total expense in the Historic Year, and a program change
2 to reflect the latest audit fee schedule available. We then escalated the Historic
3 Year expense and program changes by the general escalation factor to arrive at
4 the Rate Year amount.

5 **Line 29, Facilities and Field Services:** (E, G) This item relates to the non-labor
6 charges related to the Company’s Facilities and Field Services departments, such
7 as contracts for building maintenance and janitorial services. We normalized the
8 Historic Year expense for COVID-19 related costs and escalated the Historic
9 Year expense by a program change to account for the Prevailing Wage Law ,
10 which impacts building services workers (and is discussed by the Shared Services
11 Panel), and the general escalation factor to arrive at the Rate Year amount.

12 **Line 30, Finance & Accounting Operations:** (E, G) This item relates to the non-
13 labor charges related to the Company’s Finance and Accounting Operations
14 departments and select other corporate charges. We escalated the Historic Year
15 expense by the general escalation factor to arrive at the Rate Year amount.

16 **Line 31, Indian Point Contingency:** (E) The Indian Point Contingency plan
17 addressed the potential reliability concerns that may arise upon the retirement of
18 electric generation facilities, notably the Indian Point Energy Center. In response
19 to the Commission’s request, on February 1, 2013, the Company and NYPA filed
20 a joint proposal to conduct Energy Efficiency/Demand Reduction/Combined Heat
21 and Power programs. Pursuant to the Commission’s Order, the Company is

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 authorized to recover all costs through the MAC over a ten-year period. This
2 normalization adjustment removes the amortization costs for the Historic Year.
3 **Line 32, Information Technology:** (E, G) This item relates to the non-labor
4 charges related to the Company's IT departments, such as technology support,
5 software maintenance and application services, as well as mainframe computers
6 in general. The total Rate Year forecast includes program changes including, but
7 not limited to, funding for programs such as Obsolete Oracle GRC Replacement,
8 Budget Systems Enhancement, CECONY REV/DER/EEDM Forecasting Tool,
9 Allegro Replacement, ISOs Revenue Metering Validation and Reporting Software
10 Phase, and Work and Asset Management Mobility Solution. These program
11 changes are all discussed in detail in the direct testimony of the IT Panel. The
12 Company also normalized expenses due to the timing of Oracle billings
13 understating expense during the Historic Year. We then escalated the Historic
14 Year expense, normalization, and program changes by the general escalation
15 factor to arrive at the Rate Year amount.

16 **Line 33, Informational Advertising:** (E, G) This item relates to informational
17 advertising directed to customers. The Historic Year expense was adjusted by a
18 program change to reflect advertising as a percentage of sales revenues at the
19 percentage historically accepted by the Commission (0.08%) and escalated by the
20 general escalation factor to arrive at the Rate Year amount.

21 **Line 34, Injuries & Damages/ Workers Compensation:** (E, G) In accordance
22 with prior practice in rate case filings, the Company forecasted the Rate Year

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 level of injuries and damages and workers compensation expenditures based on
2 the average net claim payments for the most recent three-year period (*i.e.*,
3 October 2018 through September 2021), escalated using the general escalation
4 factor.

5 **Line 35, Institutional Dues & Subscription:** (E, G) This item includes
6 membership fees paid and association dues. Consistent with New York State law,
7 the Company excluded from its proposed revenue requirements all fees paid to the
8 American Gas Association and Edison Electric Institute as they engage in
9 lobbying activities. We then escalated the Historic Year expense and
10 normalization by the general escalation factor to arrive at the Rate Year amount.

11 **Line 36, Insurance Premium:** (E, G,) This item includes insurance premiums the
12 Company incurs for items such as property insurance, liability insurance,
13 Directors and Officers insurance, and cyber security insurance. A program
14 change was recorded to align expenses with the latest premiums and then we
15 escalated using the general escalation factor.

16 **Line 37, Intercompany Shared Services:** (E, G) This item reflects intercompany
17 billing between the Company and CEI. A normalization adjustment eliminates
18 the Company's portion of the insurance premiums expense from the Historic
19 Year, so such expense, which is included in Line 36, Insurance Premiums, in this
20 section of the testimony, is only included once. We then escalated the Historic
21 Year expense and normalization by the general escalation factor to arrive at the
22 Rate Year amount.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 38, Load Dispatching and PJM TEC:** (E) This item represents refunds to
2 customers associated with a settlement approved by FERC on PJM Transmission
3 Enhancement Charges in Docket No. EL05-121-009. The amounts are passed
4 back outside of base rates through surcharge; as such, in this filing, the Company
5 has normalized all activity that occurred in the Historic Year.

6 **Line 39, New York Facilities:** (G) On July 27, 1950, the Company, Brooklyn
7 Union Gas Company and Long Island Lighting Company, (which are now known
8 as KEDNY and KEDLI, respectively) executed the New York Facilities
9 Agreement to facilitate the introduction of natural gas into the New York area.
10 The agreement was last updated on October 18, 2018. The New York Facilities
11 Agreement provides, among other things, for the apportionment of costs for
12 participants' use of other participants' facilities. We maintained the Historic Year
13 level of costs for the Rate Year.

14 **Line 40, Ops-Central Engineering:** (E) This item relates to the non-labor
15 charges related to the Company's Central Engineering departments. We escalated
16 the Historic Year expense by the general escalation factor to arrive at the Rate
17 Year amount.

18 **Line 41, Ops-Construction Management:** (E, G) This item relates to the non-
19 labor charges related to the Company's Construction Management departments.
20 We escalated the Historic Year expense by the general escalation factor to arrive
21 at the Rate Year amount.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 42, Ops-Customer Operations:** (E, G) This item relates to the non-labor
2 charges of the Company’s Customer Operations departments. The Rate Year
3 forecast includes program changes discussed in the direct testimony of the
4 Customer Operations Panel, including changes to the manner in which the
5 Company collects the costs of credit card payment of utility bills. Further
6 program changes request funding to enhance the Dynamic Customer Experience
7 (“DCX”), customer outreach, collection agency fees, customer analytics, credit
8 modeling, privacy readiness, revenue protection, and replevin. The Company also
9 recorded a normalization to adjust for COVID-related reductions in collection
10 agency fees. We then escalated the Historic Year expense, program changes, and
11 normalization by the general escalation factor to arrive at the Rate Year amount.

12 **Line 43, Ops-Electric Operations:** (E, G) This item relates to non-labor charges
13 related to the Company’s Electric Operations departments. The Rate Year
14 forecast for electric includes program changes discussed in detail in the direct
15 testimony of the EIOP, including program changes for Safety Inspection Program,
16 AMI meter testing, emergency response, tree trimming, and structures/poles. We
17 then escalated the Historic Year expense and program changes by the general
18 escalation factor to arrive at the Rate Year amount.

19 **Line 44, Ops-Gas Operations:** (E, G) This item relates to non-labor charges
20 related to the Company’s Gas Operations departments. The Rate Year forecast
21 for gas includes program changes discussed in detail in the direct testimony of the
22 GIOSP including costs related to additional inspections and repairs due to an

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 amendment to the definition of “gas service line,” a gas outage management
2 system, and the inspection and repair of distribution and transmission natural gas
3 piping at expansion joints, on bridges, and through submarine river crossings.
4 We then escalated the Historic Year expense and program changes by the general
5 escalation factor to arrive at the Rate Year amount.

6 **Line 45, Ops-Interference:** (E, G) The Company has an extensive system of
7 electric and gas infrastructure within the streets of its service territory. As
8 discussed in the direct testimony of the Municipal Infrastructure Support Panel,
9 when a municipality plans to perform work and is unable to complete the
10 proposed plan absent our relocating Company facilities that are “in the way,” the
11 Company bears all the costs to locate, move, support, protect and/or relocate the
12 facilities affected by the municipality’s construction activity. These costs are
13 referred to as “interference costs.” The Rate Year forecast includes a program
14 change discussed in the direct testimony of the Municipal Infrastructure Support
15 Panel. We then escalated the Historic Year expense and the program change by
16 the general escalation factor to arrive at the Rate Year amount.

17 **Line 46, Ops-Production:** (E) This item relates to non-labor charges related to
18 the Company’s Production departments. The Rate Year forecast includes a
19 program change related to an overhaul of East River Unit No. 6, which is
20 discussed in further detail within the EIOP Panel. This line also includes a
21 program change to reflect the projected Rate Year amount of other fuel charges

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 for electric. We then escalated the Historic Year expense and program changes
2 by the general escalation factor to arrive at the Rate Year amount.

3 **Line 47, Ops-Substation Operations (“SSO”):** (E) This item relates to non-
4 labor charges related to the Company’s SSO departments. We escalated the
5 Historic Year expense by the general escalation factor to arrive at the Rate Year
6 amount.

7 **Line 48, Ops-System & Transmission Operations (“STO”):** (E) This item
8 relates to non-labor charges related to the Company’s STO departments. The
9 Rate Year also reflects program changes related to licensing fees and ongoing
10 maintenance for vehicle purchases due to increased headcount for storm response,
11 which are explained in further detail within the EIOP testimony. The rate year
12 also reflects a normalization to adjust for one-time expenditures incurred in the
13 Historic Year. We escalated the Historic Year expense adjusted for program
14 changes and normalizations by the general escalation factor to arrive at the Rate
15 Year amount.

16 **Line 49, Other Compensation (Long-Term Equity):** (E, G) This line includes
17 the executive variable pay plan and officer and non-officer long-term equity
18 grants, which is made up of time based and performance based restricted stock
19 expenses. The Rate Year program change for non-officer time based and
20 performance based restricted stock expenses are based on the stock price of
21 \$78.77 and the number of outstanding shares of 270,450 at November 15, 2021.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 We escalated the program changes by the general escalation factor to arrive at
2 Rate Year amounts.

3 We normalized the Rate Year amount to reflect elimination of costs associated
4 with the executive variable pay plan and long-term equity grants. The Company
5 is not seeking to recover these eliminated costs through rates in this proceeding,
6 but, as noted above, reserves its rights to seek the recovery of such costs in future
7 rate proceedings.

8 **Line 50, Outside Legal Services (E, G)** This item includes the cost of outside
9 legal counsel. The Company normalized this line item to reflect a three-year
10 average of expenditures. We escalated the Historic Year expense and
11 normalization by the general escalation factor to arrive at the Rate Year estimate.

12 **Line 51, Pension and OPEB: (E, G)** This line reflects the actuarially determined
13 level of expenses for employee pensions and OPEBs, which was based on two
14 studies performed by the Company's actuary, Buck Consultants, dated May 2021
15 for pensions (updated by the Company for changes in assumptions through
16 November 2021) and dated December 2021 for OPEBs. The studies incorporate
17 the Company's actual historical experience supplemented by assumptions of
18 future activity through November 2021. Assumptions used in the forecast of
19 pensions were a discount rate of 2.85 percent and an expected return on plan
20 assets of 7.0 percent. OPEB projections were based on a discount rate of 2.65
21 percent, return on assets of 7.0 percent for the 401(h) account, 7.6 percent for the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Management Life Insurance VEBA, 7.1 percent for the Management Health
2 VEBA and 6.6 percent for the Weekly Health VEBA.

3 Q. Please summarize the estimate of the Rate Year employee pensions/OPEBs
4 expense.

5 A. The amount of the actuarially determined level of expense for employee
6 pensions/OPEBs and other payments, net of capitalization and regulatory
7 deferrals, for all three commodities for the Historic Year is \$83.7 million, with
8 \$56.1 million allocable to electric and \$11.5 million allocable to gas. The Rate
9 Year estimated cost for all three commodities is a credit of \$283 million ((\$220)
10 million allocable to electric and (\$45) million allocable to gas). This \$366.8
11 million decrease (\$275.7 million allocable to electric and \$56.7 million allocable
12 to gas) in accounting cost is attributed to multiple factors. One key driver for the
13 decrease in the accounting cost from the Historic Year to the Rate Year is the
14 change in the discount rate. The pension discount rate was 3.35% for the three
15 months ended December 31, 2020, and was 2.55% for the nine months ended
16 September 30, 2021. For the Rate Year, the projected pension discount rate is
17 2.85%. Future pension cost projections have also declined due to stronger than
18 anticipated investment returns in 2021 (approximately 8% actual returns relative
19 to a 7% assumed return on pension assets), and the continued roll-off of actuarial
20 losses related to the 2008 market downturn.

21 Q. Does this line item include Supplemental Retirement Income Plan (“SRIP”)
22 costs?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. Yes. Officer and non-officer SRIP costs are included in this line item, as they
2 relate to the Company's long-term performance-based compensation for
3 management employees.

4 **Line 52, RCA- Amort. of MGP/Superfund:** (E, G) Expenses recorded in the
5 Historic Year are normalized as the Rate Year costs associated with this program
6 are already reflected in the Company's deferral amortization schedule. The SIR
7 program, inclusive of MGP/Superfund, is addressed by the Environmental Health
8 and Safety Panel.

9 **Line 53, RCA- Amort. of Energy Efficiency Programs:** (E, G) These expenses
10 recorded in the Historic Year are normalized as the Rate Year costs associated
11 with this program are already reflected in the Company's deferral amortization
12 schedule. The energy efficiency program is addressed by the Customer Energy
13 Solutions Panel.

14 **Line 54, Regional Gas Greenhouse Initiative ("RGGI"):** (E) We normalized
15 the Rate Year forecast to remove the Historic Year expense because recovery for
16 this program is collected through the MAC.

17 **Line 55, Regulatory Commission Expense-All Other:** (E, G) This item includes
18 costs of participating in regulatory proceedings (*e.g.*, consultants, outside legal
19 counsel). The Rate Year forecast reflects a three-year average of costs escalated
20 by the general escalation factor to arrive at the Rate Year amount.

21 **Line 56, Regulatory Commission Expense-General and R&D:** (E, G) We
22 forecasted the Rate Year Commission Assessment based on the latest

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Commission Assessment letter dated August 2021, excluding refunds, for the
2 2021-2022 State fiscal year ending March 31, 2022. We then escalated it by
3 using the general escalation factor to arrive at the Rate Year forecast. The
4 Company will update this element of expense based on any additional
5 Commission Assessment letters received during these proceedings.

6 **Line 57, Rents – ERRP:** (E) This expense, which is recovered through the MAC,
7 is an interdepartmental rent that is offset in steam’s Other Operating Revenues.
8 Because the Company is not filing for new steam rates to be effective January 1,
9 2023 concurrent with the electric and gas filings, the \$77.218 million of revenues
10 in steam rates, reflected in RY3 of the current steam rate plan, will continue to be
11 reflected in steam rates. Under the current electric rate plan, the Commission
12 authorized the Company to defer the impact of the change in expense to steam,
13 starting in 2017 and annually thereafter (until steam base rates are reset), whether
14 positive or negative, to continue the “earnings neutral” nature of these revenues to
15 the Company.

16 **Line 58, Rents-General:** (E, G) This item represents general rents paid to lease
17 various properties or land on which the Company operates. We escalated the
18 Historic Year expense by the general escalation factor to arrive at the Rate Year
19 estimate.

20 **Line 59, Rents-Interdepartmental:** (E, G) The Rate Year forecast for electric
21 includes a program change primarily attributable to increases to the book costs of

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 the Ravenswood and Astoria tunnels, which are part of Gas Plant, and an increase
2 to the book cost of the Hudson Avenue Tunnel, which is part of Steam Plant.

3 **Line 60, Research & Development:** (E, G) This item relates to non-labor charges
4 related to the Company's R&D department. The line includes additional expenses
5 for program changes, which are discussed within the direct testimony of the
6 Company's Shared Service Panel. The line also includes a normalization to
7 exclude expenses related to the Millenium Fund because such expenses are
8 collected through surcharge rather than base rates. We escalated the Historic
9 Year expense level adjusted for normalizations and program changes using the
10 general escalation factor to arrive at the Rate Year amount.

11 **Line 61, Security:** (E, G) This item relates to non-labor charges related to the
12 Company's Corporate Security department. We escalated the Historic Year
13 expense by the general escalation factor to arrive at the Rate Year amount.

14 **Line 62, Storm Reserve:** (E) The Company is proposing to maintain the Historic
15 Year level of storm reserve expenditures, as increased by the general escalation
16 factor, to arrive at the Rate Year amount. Please also see the Deferrals and
17 Reconciliation section for additional detail on the major storm reserve target and
18 associated proposed reconciliation method.

19 **Line 63, System Benefit Charge:** (E, G) For electric, the System Benefit Charge
20 is adjusted to match the level in sales revenue projections. For gas, this expense
21 will be corrected and normalized in the preliminary update because the System
22 Benefit Charge is collected as a separate surcharge.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **Line 64, Uncollectible Reserve-Customer:** (E, G) This item represents an
2 allowance for the recovery of write-offs of customer accounts receivable.
3 Historic Year uncollectible expenses were greatly impacted by the COVID-19
4 pandemic and associated laws. As such, the Company proposes to set the Rate
5 Year uncollectibles at the levels approved for RY3 under the current Rate Plans.
6 For electric, this amount is \$42,847,000, a reduction of \$12,579,000 from the Test
7 Year before accounting for the proposed rate increase. For gas, this amount is
8 \$12,895,000, a reduction of \$2,315,000 from the Test Year before accounting for
9 the proposed rate increase. The Company’s proposal to reconcile uncollectible
10 write-offs is discussed in Section XVI.

11 **Line 65, Uncollectible Reserve-Sundry:** (E, G) This item represents a provision
12 and write-off of miscellaneous accounts receivables which are not expected to be
13 collected by the Company. The Rate Year amount includes a program change to
14 reflect a three-year annualized average for the period October 2018 through
15 September 2021.

16 **Line 66, Worker’s Comp NYS Assessment:** (E, G) This line item represents
17 assessment payments by employers to the NYS Workers’ Compensation Board
18 (“WCB”). The assessment rates are determined by the WCB each year and the
19 Company estimates its expenses based on the latest available rates and projected
20 payroll levels. The Company recorded a program change to reflect the latest
21 available estimates as of the time of the filing. We then escalated the Historic

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Year expense and program changes by the general escalation factor to arrive at
2 the Rate Year amount.

3 **Line 67, All Other:** (E, G) This line item includes miscellaneous and general
4 expenses that did not fit into other categories of expense discussed above.
5 Included within this line item are also costs that were normalized, including
6 certain deferrals and related amortizations for deferred balances such as
7 Meadowlands heaters, gas service line deferrals, and interference. Additionally,
8 oil to gas expenditures were also normalized from the test year as they are
9 recovered outside of base rates. We then escalated the Historic Year expense
10 adjusted for normalizations by the general escalation factor to arrive at the Rate
11 Year amount.

12 **Line 68, Company Labor – Fringe Benefit Adjustment:** (E, G) This adjustment
13 represents the increase or decrease in employee welfare expenses and workers'
14 compensation related to the increase or decrease in employees through program
15 changes as sponsored by various Company witnesses. We escalated the program
16 change by the general escalation factor to arrive at the Rate Year amount.

17 **Line 69, Business Cost Optimization (“BCO”):** (E, G) This line item reflects
18 the customer savings associated with the Company’s BCO Program. Beginning
19 in 2017, the Company implemented a multi-year BCO program to improve
20 processes, functions, and tasks in order to identify and achieve savings. The
21 savings reflected in this line item represent the Company’s projected incremental
22 BCO efficiencies to be achieved between the end of the Historical Year and the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 beginning of the Rate Year. Additionally, embedded within the Historical Year
2 are over \$150 million in O&M savings achieved since the inception of the
3 program.

4 The Company is completing the program and is transitioning from focusing on an
5 independent BCO program to integrating optimization approaches developed
6 under BCO to normal business planning and operation. These types of cost
7 savings are embedded in program costs in this case (*e.g.*, GIOSP discusses how
8 aligning gas service line inspection work with installing AMI-enabled natural gas
9 detectors is expected to result in significant savings in the Rate Year).

10 **E. Depreciation and Amortization (Exhibits AP-3, Schedule 7.1 & 7.2)**

11 Q. Please describe Schedules 7.1 and 7.2 of Exhibits AP-3 relating to Depreciation
12 and Amortization.

13 A. Schedule 7.1 shows the depreciation and amortization amounts at current
14 depreciation rates, with no change to the reserve deficiency recovery for the
15 period from September 2021 to December 2025. Schedule 7.2 shows the
16 depreciation and amortization amounts at proposed depreciation rates with
17 adjustments made to the reserve deficiency recovery for the same period.
18 Rate Year depreciation and amortization is based on projected plant balances
19 through the Rate Year and composite depreciation rates for current plant accounts.
20 Both are discussed in detail in the Depreciation Panel's testimony.

21 Q. Please summarize the projected net changes to the level of Depreciation and
22 Amortization from the Historic Year to the Rate Year as shown in Schedule 7.1.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. For electric, the Historic Year level of \$1,276 million is forecast to increase by
2 \$144 million for a Rate Year level of \$1,420 million.

3 For gas, the Historic Year level of \$319 million is forecast to increase by \$88
4 million for a Rate Year level of \$407 million.

5 Q. Please summarize the projected net changes to the level of Depreciation and
6 Amortization from the Historic Year to the Rate Year as shown in Schedule 7.2.

7 A. For electric, the Historic Year level of \$1,276 million is forecast to increase by
8 \$159 million for a Rate Year level of \$1,435 million.

9 For gas, the Historic Year level of \$319 million is forecast to increase by \$150
10 million for a Rate Year level of \$469 million.

11 Q. Please summarize the Company's proposed depreciation and amortization
12 expense.

13 A. These figures reflect proposed electric and gas depreciation rates, \$2 million
14 decrease in recovery of reserve deficiencies for electric and \$15 million increase
15 in recovery of reserve deficiencies for gas, as explained by the Depreciation
16 Panel.

17 Q. Are the gas depreciation rates used to develop revenue requirement those
18 recommended by the Company's Depreciation Panel?

19 A. No. The Gas Depreciation Panel recommended a ten-year decrease in the average
20 service lives of longer-lived gas accounts. In order to mitigate customer bill
21 impacts, the Company's gas revenue requirement uses a five-year decrease, which

DIRECT TESTIMONY – ACCOUNTING PANEL

1 is the lowest reduction the Company views as appropriate in light of CLCPA
2 requirements.

3 **F. Taxes Other than Income Taxes (Exhibits AP-3, Schedule 8)**

4 Q. How did you calculate the Property Taxes component of Taxes Other Than
5 Income Taxes for the Rate Year shown on Schedule 8 of Exhibits AP-3?

6 A. Historic Year property taxes consist of NYC real estate and special franchise
7 taxes and Westchester County and other upstate county property taxes. The Rate
8 Year forecasts were provided to us by the Company's Property Tax Witness and
9 are described in her direct testimony.

10 Also shown on Schedule 8 of Exhibits AP-3 are amounts representing the
11 reconciliation of actual property taxes to the levels established in base rates during
12 the Historic Year under the Company's current electric and gas rate plans, which
13 are normalized for the Rate Year.

14 Q. How did you calculate the Payroll Taxes component of Taxes Other than Income
15 Taxes as set forth on Schedule 8 of Exhibits AP-3?

16 A. We determined the payroll taxes by applying the employer payroll tax rate to the
17 forecasted direct labor increases.

18 Q. How did you calculate the Revenue Tax component of Taxes Other Than Income
19 Taxes for the Rate Year shown on Schedule 8 of Exhibits AP-3?

20 A. We determined the Revenue Taxes based on the estimated revenue for gas and
21 electric multiplied by the effective tax rate (provided by the Company's Electric
22 and Gas Forecasting Panels).

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Q. Please explain the Sales and Use Tax component of Taxes Other Than Income
2 Taxes shown on Schedule 8 of Exhibits AP-3.

3 A. These are the state and local sales and use taxes paid by the Company when
4 acquiring a broad range of goods and services. The amount shown is the portion
5 of such taxes chargeable to expense as opposed to being capitalized. We have
6 escalated the Historic Year amounts to recognize general inflation in the cost of
7 goods and services. The forecast does not assume any change in sales tax rates.

8 Q. Please describe the All Other Taxes component of Taxes Other Than Income
9 Taxes shown on Schedule 8 of Exhibits AP-3.

10 A. All Other Taxes represents minor taxes such as commercial rent and occupancy
11 tax, motor vehicle taxes, state gasoline tax, state highway use tax, federal diesel
12 and gasoline taxes, the NYS tax on insurance premiums and hazardous waste.
13 The Company estimates the Rate Year level for such taxes to be the Historic Year
14 amount plus escalation at the general inflation factor.

15 **G. State and Federal Income Taxes (Exhibits AP-3, Schedules 9 and 10)**

16 Q. Please describe the calculation of income taxes shown on Schedules 9 and 10 of
17 Exhibits AP-3.

18 A. Schedule 9 details the NYS income tax computation. In April 2021, New York
19 State passed a law that increased the corporate franchise tax rate on business
20 income from 6.5% to 7.25%, retroactive to January 1, 2021, for taxpayers with
21 taxable income greater than \$5 million for tax years 2021, 2022 and 2023.

22 Because the Company will carryforward NYS Net Operating Losses into RY1

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 (i.e., tax year 2023), the Company is not impacted by the temporary higher NYS
2 tax rate of 7.25%. Therefore, we calculated the NYS income tax expense using a
3 6.5% tax rate for all rate years.

4 Schedule 10 details the federal income tax computation. The federal income
5 taxes are computed using the 21 percent tax rate in the Tax Cuts and Jobs Act of
6 2017. The Schedule shows the amortization of excess deferred federal income tax
7 (“EDFIT”) broken out in the following four categories: protected plant,
8 unprotected plant, accelerated unprotected plant and non-plant. The EDFIT
9 represents the difference in the amounts the Company collected from its
10 customers at a 35 percent tax rate to pay future income taxes, and the Company’s
11 future tax liabilities at a 21 percent tax rate. The Company proposes to refund the
12 protected component over the remaining lives of the underlying plant assets and
13 the unprotected and non-plant components over the remaining two years of the
14 five year amortization approved in the Company’s current rate plans.

15 Schedule 10 also reflects a credit to customers for an estimated amount of an
16 R&D tax credit that reduces the Company’s federal income tax expense in the
17 Rate Year.

18 **XI. FUND REQUIREMENTS AND SOURCES (Exhibits AP-3, Schedule**
19 **12)**

20 Q. Please describe Exhibits AP-3, Schedule 12.

21 A. This schedule reflects the Company’s forecast of capital fund requirements and
22 sources of capital funds, as well as certain financial statistics, for the Rate Year.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 We have determined that capital funds required during the Rate Year will exceed
2 internal sources by \$1,936 million.

3 Q. Please describe the items contained in the schedule under the heading “Internal
4 Sources of Funds.”

5 A. The first item is estimated retained earnings. For the Rate Year, net income for
6 common stock is projected at \$1,804 million and new issuances are projected at
7 \$800 million, offset by projected common stock dividends of \$1,128 million. The
8 second item is depreciation. The third item is the amortization of net accounting
9 credits. The fourth item is net working capital requirements. The fifth item,
10 deferred tax accruals, are funds provided principally by the use of tax depreciation
11 subject to normalization. In total, our projections show internal sources of funds
12 will provide \$3,408 million.

13 Q. Please describe the next section of the schedule.

14 A. The next section, “External Sources of Funds,” shows the Company’s projected
15 debt issuances and changes to short-term borrowings for the Rate Year. These
16 external sources of funds will provide \$1,936 million.

17 Q. Please describe the items contained in the schedule under the heading “Use of
18 Funds.”

19 A. The first item, requiring the largest amount of capital funds, is Construction
20 Expenditures of \$5,344 million. This amount is consistent with the Company’s
21 five-year forecast of construction expenditures, as set forth in Exhibits AP-4.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 The second item shows there are no long-term debt maturities during the Rate
2 Year, consistent with what is shown in Exhibits AP-5.

3 **XII. INTEREST COVERAGE – S.E.C. BASIS PER BOOKS (Exhibits AP-**
4 **3, Schedule 13)**

5 Q. Is the Accounting Panel sponsoring an exhibit to show the calculation of interest
6 coverage ratio for the interest paid on long-term debt and other items?

7 A. Yes, we are sponsoring Schedule 13 of Exhibits AP-3. The schedules contain
8 identical information because the information is presented on a corporate rather
9 than a commodity basis.

10 Q. Please describe these exhibits.

11 A. Schedule 13 of Exhibits AP-3 show the ratio of the Company's earnings before
12 interest and taxes to the amount of fixed charges it had to pay for each of the prior
13 five years.

14 Fixed charges includes interest on long-term debt, amortization of debt discount
15 and expense, the interest component of rentals and "other interest," which is
16 comprised of interest paid on customer deposits, commercial paper, customer
17 overpayments and other miscellaneous items.

18 Q. Does the Company currently have available lines of credit?

19 A. Yes. The Company, along with CEI and O&R, has agreements with various
20 banks for revolving credit lines totaling \$2,250 million. Assuming that CEI and
21 O&R have not used their assigned portions of this credit, \$1,000 million and \$200
22 million, respectively, the Company can use the entire \$2,250 million.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **XIII. NET PLANT INVESTMENT (EXHIBITS AP-4)**

2 **A. Projected Net Plant Balances (Exhibits AP-4, Schedules 1 & 2)**

3 Q. Has the Accounting Panel prepared projections of net plant balances from the end
4 of the Historic Year (*i.e.*, September 30, 2021) through the Rate Year (*i.e.*,
5 December 31, 2023) appraising the impact of the current construction and
6 retirement programs on electric and gas rate base?

7 A. Yes, that information is presented in Exhibits AP-4.

8 Q. What is shown on Schedule 1 of Exhibits AP-4?

9 A. Schedule 1 of these exhibits contains three pages. Page 1 of Schedule 1 shows
10 projected net plant balances for the Rate Year, with the depreciation reserve
11 reflecting accruals at currently effective rates. Page 2 of Schedule 1 shows
12 projected net plant balances for the Rate Year, with the depreciation reserve
13 reflecting accruals at the proposed rates inclusive of adjustments to the reserve
14 deficiencies recovery. Page 3 of Schedule 1 shows the projected monthly net
15 plant balances from the end of the Historic Year to the start of the Rate Year,
16 which served as a basis for our Rate Year projections.

17 Using projected capital expenditures provided to us by various witnesses in these
18 proceedings, we estimated transfers to plant in service. We then added the
19 estimated transfers to the actual plant in service account balances at September
20 30, 2021 and deducted the projected book cost of plant retired to give us a book
21 cost of plant. In order to develop net plant balance, we deducted accumulated
22 depreciation from book cost of plant.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Q. What is shown on Schedule 2 of Exhibits AP-4?

2 A. Schedule 2 of these exhibits shows average CWIP in rate base for the twelve-
3 months ended September 2021. In this filing, the Company is projecting Rate
4 Year CWIP to remain at the Historic Year level. As the Company further reviews
5 its capital forecast, it will refine the Rate Year CWIP projection and incorporate
6 the projection into the update filing.

7 Q. Are the net plant and non-interest bearing CWIP rate base amounts in Exhibits
8 AP-4 reflected in the total rate base amounts shown in Exhibits AP-2?

9 A. Yes.

10 Q. What is shown on Schedule 3 of Exhibits AP-4?

11 A. Schedule 3 shows the capital expenditure projections for calendar years 2022
12 through 2026 reflected in our net plant and CWIP forecasts.

13 **B. Allocation of Common Plant Investment (Exhibits AP-4, Schedule 3)**

14 Q. How is the cost of common plant allocated between Con Edison and its affiliate
15 O&R?

16 A. If a common plant project benefits O&R, the portion of the project applicable to
17 O&R will be charged to an O&R capital account through the affiliate billing
18 process. If there is not another basis to allocate costs, the intercompany shared
19 services percentage discussed above will be used.

20 Q. Do the net plant rate base amounts for electric and gas include amounts related to
21 common net plant?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. Yes. Con Edison's portion of common plant is allocated 83 percent to electric
2 operations and 17 percent to gas operations. Steam operations is charged an
3 interdepartmental rent charge for common plant used in steam operations. That
4 charge to steam operations is credited to the electric and gas departments.

5 **XIV. RATE OF RETURN (EXHIBIT AP-5)**

6 Q. Is the Accounting Panel sponsoring an exhibit regarding the required rate of
7 return?

8 A. Yes, along with Company witness Saegusa, we are sponsoring Exhibits AP-5.
9 These exhibits contain identical information for electric and gas because the
10 information is presented on a corporate rather than a commodity basis.

11 Q. Please describe Schedule 1 of Exhibits AP-5.

12 A. Schedule 1 of these exhibits shows the actual capital structure for the Company as
13 of the end of the Historic Year, the average cost rate for each component of the
14 capital structure and the related cost of capital. The Company's overall weighted
15 cost of capital at the end of the Historic Year was 6.46 percent for both electric
16 and gas.

17 Q. Please describe Schedules 2, 3 and 4 of Exhibits AP-5.

18 A. These schedules show the projected average capital structure, the average cost
19 rate for each component of the capital structure and the related cost of capital for
20 the Rate Year and the two following twelve-month periods ending December 31,
21 2024 and 2025, respectively.

22 Q. What capital structure is the Company proposing to use for the Rate Year?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. The Company proposes a 50.00 percent common equity ratio for the Rate Year.
2 Witness Saegusa explains in her testimony that this equity ratio is appropriate and
3 necessary to address the negative outlook of credit rating agencies and the
4 Company's weakened cash flow profile.

5 Q. How did you derive the amount of average long-term debt for each period?

6 A. To derive the average long-term debt for the each of the Rate Years presented in
7 this filing, we determined the amount of long-term debt outstanding at the end of
8 each month from the end of the Historic Year through December 31, 2025. We
9 then used these figures to calculate the average balance of long-term debt
10 outstanding for each period.

11 Q. How was the amount of long-term debt outstanding each month determined?

12 A. We estimated changes in the outstanding amount of debt each month from the end
13 of the Historic Year forward based on the forecasted funding requirements.
14 Schedules 5, 6, 7, and 8 of Exhibits AP-5 list the actual long-term debt balance as
15 of the end of the Historic Year and the projected monthly balances. The
16 forecasted average amount of long-term debt for the Rate Year is \$19,733 million
17 as shown on Schedule 6 of Exhibits AP-5.

18 Q. Please explain how you derived the average customer deposit amounts, set forth
19 on Schedules 2, 3 and 4 of Exhibits AP-5.

20 A. With respect to customer deposits, we started with the actual average balance
21 during the Historic Year of \$284 million. From there, the Company applied the
22 annual growth rate in customer deposits observed during the Historic Year, which

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 brought the average balance of customer deposits for the Rate Year to \$352
2 million.

3 Q. Please explain the average balance for common equity for each of the periods.

4 A. As explained by Company witness Saegusa and as set forth in Exhibits AP-5,
5 Schedule 2, the forecasted capital structure for the thirteen months ending
6 December 31, 2023 includes a common stock equity ratio of 48.20 percent.
7 Schedules 3 and 4 of Exhibits AP-5 show that the Company's equity ratio would
8 increase to 48.54 and 49.25 percent for the twelve-month periods ending
9 December 2024 and 2025, respectively. To the extent that the recommended
10 equity ratio of 50.00 percent is agreed upon, the Company would modify its debt
11 and equity issuances to work toward achieving that ratio.

12 Q. What average cost rate for long-term debt is reflected in the overall rate of return?

13 A. Con Edison's long-term debt consists of tax-exempt debt issued through
14 NYSERDA and debenture bonds. The average annual cost rate of this debt is
15 calculated by dividing the annual interest requirements for all long-term debt
16 issues, including the annual amortization of the net amount of any premiums or
17 discounts realized when the securities were sold and the cost and expense of
18 issuance, by the amount of long-term debt outstanding. As shown on Schedules 6
19 through 8 of Exhibits AP-5, the average cost of long-term debt for the Rate Year
20 is 4.30 percent, 4.32 percent for the twelve months ending December 31, 2024
21 and 4.35 percent for the twelve months ending December 31, 2025.

22 Q. What cost rate for customer deposits is reflected in the overall rate of return?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. We reflected the current rate as set by the Commission of 0.05 percent. The
2 Commission reviews this rate annually.

3 Q. What rate of return on common equity is reflected in the overall rate of return?

4 A. As noted above, we have used a return on common equity of 10.00 percent to
5 calculate the overall rate of return. For the Rate Year, the overall rate of return is
6 7.10 percent, which we used in determining the revenue requirement for the Rate
7 Year.

8 Q. Will the rate of return be updated in this proceeding?

9 A. The Company may update the rate of return as part of the Company's rebuttal and
10 update testimony if financial conditions at that time warrant such an update.

11

12 **XV. ALLOCATION OF ELECTRIC RATE INCREASE (Exhibit AP-6)**

13 Q. Did the Accounting Panel determine how much of the total increase in the electric
14 revenue requirement of \$1,199 million was allocable to delivery service and how
15 much was allocable to the MAC?

16 A. Yes. Exhibit AP-E6 reflects this allocation.

17 Q. Please describe this exhibit.

18 A. Exhibit AP-E6 includes four schedules. Schedule 1 summarizes the proposed
19 \$1,199 million increase as allocated between delivery service rates and the MAC.
20 The required increase in delivery service revenues is \$1,190 million; the
21 accompanying increase in required MAC revenues is \$9 million. Schedule 2
22 summarizes the production proposed rate increase. Schedule 3 presents the state

DIRECT TESTIMONY – ACCOUNTING PANEL

1 and federal income taxes related to the production function. Schedule 4 shows the
2 average rate base allocated between the delivery and the MAC components.

3 **XVI. RECONCILIATIONS AND DEFERRED ACCOUNTING**

4 Q. Does the Company currently employ deferred accounting as permitted under
5 Accounting Standards Codification 980, Regulated Operations?

6 A. Yes. The Commission has authorized the Company to employ deferred
7 accounting to match the recognition of expenditures with the recovery of certain
8 costs when they are either beyond the Company's direct control and therefore not
9 subject to reasonable estimation, the timing of the actual expenditure is not
10 certain, or in furtherance of State and/or Commission policy objectives. The
11 Commission similarly employs deferred accounting regarding the Company's
12 actual, potential or unexpected receipts of various revenues and credits. The
13 approach is intended to protect the interests of customers and investors by
14 avoiding a "windfall" for one or the other and the approach of amortizing the
15 costs over subsequent periods serves the purpose of minimizing rate volatility.

16 Q. What is the Company proposing regarding the use of deferral accounting and
17 reconciliation mechanisms?

18 A. The Company is proposing to continue all deferral accounting and reconciliation
19 mechanisms that are in effect during the current electric and gas rate plans unless
20 otherwise noted below. The deferral and reconciliation mechanisms that are
21 proposed to continue include, but are not limited to, the existing supply rider
22 provisions (*e.g.*, MSC, MAC, GCF, MRA) and deferral and reconciliation

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 mechanisms for such items as pensions and OPEBs, SIR costs, East River station
2 maintenance costs and East River interdepartmental rent, non-officer management
3 variable pay, New York Facilities Agreement, adjustments for competitive
4 services, other transmission revenues (*e.g.*, Transmission Congestion Contracts),
5 NEIL dividends, Brownfield Tax Credits, proceeds from the sale of SO₂
6 allowances, congestion tolling, Non-Wire Solutions and Non-Pipeline Solutions,
7 White Plains Gate Station, REV demonstration projects, BQDM, Prospective
8 Sales and Use Tax Refunds/Assessments, low income discounts, and gas research
9 and development (internal program) expenses.

10 The Company is also proposing to implement new deferral accounting or
11 reconciliation mechanisms, as addressed below.

12 Q. Why is the Company proposing the continuation of the existing reconciliation
13 mechanisms?

14 A. Those reconciliation mechanisms are related to costs that are significant, highly
15 variable even in the near term, and not subject to reasonable estimation, protect
16 the interests of customers and investors and are appropriate. We note in that
17 regard that the Company is subject to the Commission's Policy Statement on
18 Pensions and Other Post-Employment Benefits and is required to true-up its
19 annual pension and OPEB costs to the levels provided in base rates. Others, such
20 as those related to the Low Income customer charge discounts, are in furtherance
21 of public policy objectives. Moreover, continuing these true-ups in connection

DIRECT TESTIMONY – ACCOUNTING PANEL

1 with a one-year rate determination could enable the Company to delay the need
2 for rate relief at the expiration of the Rate Year.

3 A. **Modified Deferral or Reconciliation Mechanisms**

4 **1. Electric and Gas Net Plant**

5 Q. Please describe electric and gas net plant reconciliation under the Company's
6 current rate plans.

7 A. The revenue requirement impact of actual electric and gas net plant (excluding
8 AMI and CSS) is subject to downward reconciliation, with the possibility of
9 limited upward reconciliation of certain municipal infrastructure support
10 (interference) costs as specified in the rate plans. The rate plans also include an
11 adjustment to the electric and gas net plant reconciliation to account for certain
12 NWS and NPA programs implemented during the rate plans.

13 Q. What is the Company's proposal regarding net plant reconciliation for the Rate
14 Year?

15 A. The Company proposes that the current electric and gas net plant reconciliation
16 mechanisms continue, each with a modification to fully reconcile all interference
17 capital. In addition, the Company is proposing an adjustment mechanism so that
18 spending for the Reliable Clean City ("RCC") Projects will not exceed \$780
19 million unless otherwise authorized by the Commission.

20 Q. Please explain why the Company is proposing to reconcile interference capital.

21 A. As explained by the Municipal Infrastructure Support Panel, interference costs are
22 mandatory expenditures incurred to support local and state government projects.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 As such, they are beyond the Company's direct control. New York City's Capital
2 Infrastructure Improvement Program is the primary driver of the Company's
3 forecasted interference expenditures, but Westchester County municipalities, and
4 NYS are also planning projects that will cause the Company to incur interference
5 costs in the upcoming years. These project plans are still under development and
6 have the potential to significantly change, further hampering the Company's
7 ability to reasonably forecast its interference costs. It is clear from the scope of
8 the projects that these costs will be substantial. Accordingly, a change in a project
9 plan could have a significant impact on the Company's overall capital spending
10 plan. In order to avoid a situation where this impairs the Company's ability to
11 manage its portfolio of capital projects effectively, the Commission should permit
12 the Company to reconcile fully its interference capital costs.

13 Q. Please explain how your proposal for full reconciliation for interference capital
14 would operate within the context of a single overall net plant target for electric
15 and gas.

16 A. If actual aggregate net plant including actual interference net plant is at or below
17 the aggregate net plant target, there would be no separate reconciliation of
18 interference net plant. If capital expenditures resulting from interference costs
19 above the forecasted amount cause the Company to exceed its aggregate net plant
20 target, the Company would be permitted to recover carrying charges on the
21 amount of net plant that exceeds the aggregate net plant target through a

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 surcharge. Surcharge recovery is further detailed in the direct testimony of the
2 Company's Electric and Gas Rate Panels.

3 Q. Please explain the Company's proposed adjustment mechanism for RCC costs
4 within electric net plant.

5 A. Pursuant to the Commission's *Order Regarding Transmission Investment Petition*
6 in Case 19-E-0065, the Company is authorized to spend \$780 million on three
7 RCC Projects to enable the retirement of peaker generation units and provide new
8 delivery pathways for renewable power to reach customers. Consistent with the
9 Order and subsequent discussions with Staff, the Company will cap the net plant
10 impact of its spend on these projects to \$780 million unless otherwise authorized
11 by the Commission.

12 Mechanically, in the event the Company spends in excess of \$780 million (unless
13 otherwise authorized by the Commission) and also exceeds its overall electric net
14 plant targets, the Company would not be permitted to defer carrying charges on
15 the amount of net plant that exceeds the aggregate net plant target due to excess
16 RCC project spending.

17 **2. AMI Net Plant (Electric and Gas)**

18 Q. Please describe AMI net plant reconciliation under the Company's current rate
19 plans.

20 A. Net plant reconciliation for AMI capital expenditures is currently implemented for
21 a single category of AMI capital expenditures that includes amounts allocated to
22 both electric and gas customers, and is subject to a \$1.285 billion overall project

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 cap. The Company had forecasted, pre-pandemic, that AMI deployment would be
2 completed during the current rate plan.

3 Q. What is the Company’s proposal regarding net plant reconciliation of AMI-related
4 expenditures for the Rate Year?

5 A. As described in the testimony of the Customer Energy Solutions Panel, the
6 Company currently expects to complete AMI deployment in 2023. As such, the
7 Company proposes to continue the current AMI reconciliation mechanism
8 without modification.

9 **3. New Customer Service System (“CSS”) (Electric and Gas)**

10 Q. Please describe the CSS net plant reconciliation under the Company’s current rate
11 plans.

12 A. The new CSS was not projected to be placed into service in the current rate plan,
13 so the revenue requirement does not reflect any carrying costs associated with the
14 new CSS. However, in the event a portion of the new CSS is placed into service,
15 the Company is allowed to defer the associated revenue requirement impact in a
16 manner similar to the AMI program. The CSS system implementation is also
17 subject to a \$421 million overall project cap.

18 Q. What is the Company’s proposal regarding net plant reconciliation of CSS-related
19 capital expenditures for the Rate Year?

20 A. The Company proposes that the current reconciliation mechanism continue
21 without modification. In the Company’s revenue requirement model, the new
22 CSS system is expected to be placed in service in 2023 and the projected revenue

DIRECT TESTIMONY – ACCOUNTING PANEL

1 requirement impact associated with the project would be compared to the revenue
2 requirement associated with the actual expenditures and in-service date in a
3 manner similar to the AMI program.

4 Q. What is the Company’s proposal with respect to the new CSS-related O&M
5 expenditures for the Rate Year?

6 A. In the current rate plan, the Company is reconciling the three year cumulative
7 O&M targets to actual expenditures and deferring any over-collection to be
8 applied to expenditures incurred above the O&M targets over the remaining CSS
9 implementation period. The current rate plan also states that any deferral amount
10 at the end of the new CSS implementation is to be credited to customers in the
11 manner determined by the Commission. The Company proposes that the current
12 reconciliation mechanism continue without modification.

13 **4. Non-Wires Solutions (“NWS”) and Non-Pipeline Alternatives**
14 **(“NPA”) (Electric and Gas)**

15 Q. Please describe how cost recovery for NWS and NPA are structured under the
16 Company’s current electric and gas rate plans.

17 A. Under the Company’s current electric and gas rate plans, costs of any new electric
18 NWS or gas NPA (*i.e.*, those not included in rate base) are recovered as a
19 regulatory asset. Recovery occurs via surcharge through the MAC and NYPA
20 OTH Statement for electric or MRA for gas until base rates are reset. The rate
21 plans further provides that to the extent an NWS or NPA results in the Company
22 displacing a capital project included in its electric or gas net plant target, the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Company nets the carrying charge associated with the displaced capital project
2 against the surcharge recovery of the NWS/NPA project. Any remaining credit is
3 deferred for the benefit of customers.

4 Q. Is the Company proposing to modify either of these mechanisms for the Rate
5 Year?

6 A. Yes. The Company is required by its current gas rate plan to propose an
7 amortization period for NPAs.¹ The Company recently filed a petition in Case 19-
8 G-0066 seeking approval of certain NPAs and proposing an amortization period
9 of 20 years for the regulatory asset. The Company also clarified that in the event
10 an NPA portfolio is not viable, it will continue to treat the spending associated
11 with the project up to that point as a regulatory asset. The Company proposes to
12 modify the NPA deferral in this case to be consistent with the clarifications in its
13 petition.

14 **5. Property Tax Reconciliation & Refund Sharing (Electric and**
15 **Gas)**

16 Q. Does the Company propose modifications to the Property Tax Reconciliation
17 Mechanism?

18 A. Yes. The Company proposes a full and symmetrical reconciliation of property
19 taxes applicable separately to electric and gas. Such a reconciliation for property
20 taxes is needed regardless of whether a single year rate order or multi-year rate

¹ The Company's current rate plans provided that NWS costs are amortized over a 10-year term.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 plan is adopted by the Commission in these proceedings. In addition, the
2 Company proposes recovery through surcharge. Surcharge recovery is further
3 detailed in the direct testimony of the Company's Electric and Gas Rate Panels.

4 Q. Please explain the basis for the modifications.

5 A. The Company's Property Tax Witness explains at length why property taxes are
6 not subject to reasonable estimation and why a full reconciliation is appropriate.
7 The Company's property taxes are subject to, among other things, the vagaries of
8 municipal fiscal practices and economic circumstances.
9 Moreover, surcharge recovery is appropriate because of the magnitude of the
10 variations between the Company's actual property taxes and the rate plan targets,
11 particularly with regard to NYC property taxes. For instance, in the Company's
12 current electric rate plan, undercollected property taxes from the previous rate
13 plan represent the Company's second largest regulatory asset, requiring annual
14 recovery of over \$29 million. Conversely, in the previous rate plan (16-E-0060),
15 overcollected property taxes from the prior rate plan represented the Company's
16 largest regulatory liability, requiring refund to customers of over \$42 million
17 annually. These result in sharp rate increases or decreases for customers in each
18 rate case and, when property taxes are undercollected, put pressure on the
19 Company's cash flow between rate cases. Having more current collections for the
20 Company/customer via surcharge/sur-credit, respectively, would spread out the
21 rate impact associated with property tax increases and reduce both customer rate
22 volatility and Company financing pressure.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Q. What do you propose regarding the sharing between the Company and its
2 customers of any property tax savings the Company might obtain?

3 A. The Commission should continue the 86% customer / 14% Company sharing
4 mechanism for property tax refunds, including credits against tax payments or
5 similar forms of tax reductions (intended to return or offset past overcharges or
6 payments determined to have been in excess of the property tax liability
7 appropriate for Con Edison), net of costs incurred to achieve them, that exists
8 under the current electric and gas rate plans with one modification. In many
9 instances, the Company determines it is less costly (and thus better for customers)
10 to negotiate future assessment reductions in a property tax settlement because a
11 municipality is unable or unwilling to provide a cash refund or credit. The
12 alternative is to pursue lengthy litigation in an attempt to obtain a refund award
13 that could strain the municipality's finances. The nature of these reductions are
14 fundamentally the same as cash refunds, to which the sharing mechanism plainly
15 applies. As such, as explained by the Company's Property Tax Witness, the
16 sharing mechanism should be modified to include costs to achieve reductions in
17 future assessments.

18 **6. Interference O&M Reconciliation (Electric and Gas)**

19 Q. Does the Company propose a modification to the existing reconciliation
20 mechanisms for interference O&M expense?

21 A. Yes. For the reasons explained in the direct testimony of the Company's
22 Municipal Infrastructure Support Panel, the Company is proposing that a full and

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 symmetrical reconciliation mechanism replace the partial and asymmetrical
2 reconciliation mechanism currently in effect under the Company’s rate plans for
3 Municipal Infrastructure Support O&M expenses.

4 Q. Is the current interference reconciliation mechanism flawed?

5 A. Yes. As discussed in the direct testimony of Municipal Infrastructure Support
6 Panel, interference costs are outside the Company’s direct control and cannot be
7 reasonably forecasted. Moreover, the current NYC projects expected are notably
8 large and changes in their project plan could have a significant impact on costs
9 that the Company must incur. As a result, the Company proposes that O&M costs
10 be fully reconciled to protect both the Company and customers from any
11 windfalls resulting from deviations from current cost projections, at the expense
12 of the other. As the Company’s Municipal Infrastructure Support Panel explains,
13 the Company has historically sought to minimize its interference expenses and
14 that continues on an ongoing basis – it is a normal course of business for the
15 Company, even during times when a full reconciliation was in effect.

16 **7. NENY Energy Efficiency (“EE”) (Electric and Gas)**

17 Q. Is the Company proposing to modify the reconciliation for its NENY EE
18 program?

19 A. Yes. The Company is proposing changes to its EE reconciliation in light of the
20 Commission’s New Efficiency: New York (“NE:NY”) Order, which was issued
21 after the Commission adopted its current rate plan.

22 Q. How does the Company reconcile EE program costs under its current rate plans?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. The ratemaking framework established in the Company’s current electric and gas
2 rate plans provide for the recovery of forecasted EE costs over ten years using the
3 overall pre-tax rate of return. The revenue requirement associated with combined
4 electric and gas costs for Low-Moderate Income (“LMI”) and Non-Low-
5 Moderate Income (“Non-LMI”) EE Programs are subject to a downward-only
6 reconciliation on a cumulative basis over the term of the current rate plan. There
7 is also contingent flexibility across commodities for the Non-LMI EE Program
8 when derived lifetime savings targets under the Commission’s NE:NY Order have
9 been met in any Rate Year.

10 Q. What modification is the Company proposing for its EE programs?

11 A. The Company is proposing a single cumulative EE reconciliation target that
12 encompasses three programs (Non-LMI EE program, LMI EE program, and Heat
13 Pump (Clean Heat) program) and is subject to an overall EE program cap. The
14 Company will have the ability to transfer costs across programs and commodities
15 as detailed in the NE:NY Order, which is discussed by the Company’s CES Panel.

16 As discussed further in the direct testimony of the Company’s CES Panel,
17 the Company anticipates a change in the NE:NY funding cap prior to RY3. The
18 Company intends to propose surcharge recovery in that proceeding. To the extent
19 the NE:NY funding cap is increased subsequent to the rate plan being finalized
20 and no surcharge mechanism is authorized in the NE:NY proceeding, the
21 Company proposes that reconciliation targets in this case will be automatically
22 adjusted to the updated cap.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Q. Does the Company propose any changes to amortization periods?

2 A. Yes. The Company seeks to change the recovery period for the Heat Pump
3 (Clean Heat) program to fifteen years to match the useful life of the measures that
4 are implemented as part of the program. This proposal is discussed further in the
5 direct testimony of the Company’s CES Panel. The Company is not proposing to
6 change the ten-year amortization associated with the LMI EE and Non-LMI EE
7 programs.

8 **8. Smart Charge Electric Vehicles (“EV”) (Electric)**

9 Q. Is the Company proposing to modify the reconciliation mechanism for the
10 regulatory asset associated with its Smart Charge EV program?

11 A. Yes. The ratemaking framework established in the Company’s current electric
12 rate plan provides for the recovery of forecasted EV costs over ten years using the
13 overall pre-tax rate of return. The EV costs are subject to a downward-only
14 reconciliation on a cumulative basis over the term of the rate plan.

15 As discussed further in the direct testimony of the Company’s CES Panel,
16 although there is no funding request for Smart Charge in this case, the Company
17 anticipates additional funding to be approved in the Case 18-E-0138 (“Make
18 Ready proceeding”) prior to RY3. The Company intends to propose surcharge
19 recovery in that proceeding. To the extent that funding is increased subsequent to
20 the rate plan being finalized and no surcharge mechanism is authorized in the
21 Make Ready proceeding, the Company proposes deferral treatment of any
22 authorized spending.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **9. Major Storm Reserve (Electric)**

2 Q. Are you proposing to update the target, or base rate allowance level, for the major
3 storm cost reserve applicable to electric operations?

4 A. Yes. The Company is proposing to maintain the Historic Year level of storm
5 reserve expenditures, as increased by the general escalation factor, to arrive at the
6 Rate Year amount.

7 Q. Does the Company propose a modification to the existing framework for major
8 storm reserve costs?

9 A. Yes. The Company is proposing a number of changes. Under the current electric
10 rate plan, the Company is allowed to charge to the major storm reserve for costs
11 incurred to obtain the assistance of contractors and/or utility companies providing
12 mutual assistance, incremental employee labor, transportation, meals, lodging,
13 and travel time (collectively, “Pre-Staging and Mobilization Costs”) it incurs in
14 anticipation that a potential major storm will affect its electric operations, but
15 which ultimately does not do so. In the current rate plan, the Company incurs a
16 deductible expense of up to \$500,000 per event for Pre-Staging and Mobilization
17 Costs. Additionally, for events with costs exceeding \$2.5 million, the Company
18 absorbs further costs (i.e., incurs expense of 15% of such excess costs). For the
19 reasons discussed in the testimony of the Storm Response and Resilience Panel,
20 the Company is proposing to defer all Pre-Stage and Mobilization Costs as they
21 are driven by events outside the Company’s control.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 For major storms that do materialize, the Company's current plan includes a two
2 percent deductible for eligible expenses. The Company proposes to eliminate this
3 deductible for reasons discussed in the testimony of the Storm Response and
4 Resilience Panel. If there were negotiations for a multi-year settlement, the
5 Company would be willing to consider an annual combined cap on deductibles for
6 major storms and pre-staging and mobilizations.

7 Q. Is the Company proposing a surcharge mechanism for recovery of major storm
8 costs?

9 A. Yes. The Company's deferral balance at the end of the Historic Year for storm
10 costs is over \$150 million. To avoid the future build up of a large deferral
11 balance, the Company proposes the same surcharge that was proposed by Staff in
12 its direct testimony (and agreed to by parties to the Joint Proposal) in O&R's
13 recent rate case proceedings in Cases 21-G-0073 and 21-E-0074. Specifically, the
14 Company proposes to surcharge actual major storm costs that vary from the rate
15 allowance by more than \$7 million in a given year. Once the \$7 million variance
16 is triggered, the Company would be allowed to recover the entire variance up to
17 2.5% of delivery revenues each year through surcharge. Surcharge recovery is
18 further detailed in the direct testimony of the Company's Electric Rate Panel.

19 Q. Why is the Company proposing a \$7 million variance trigger?

20 A. The threshold in the O&R rate cases was set at \$2 million, which was 25% of the
21 reserve allowance. The Company's proposes to use the same percentage and set

DIRECT TESTIMONY – ACCOUNTING PANEL

1 is variance threshold at \$7 million, which is approximately 25% of its proposed
2 reserve allowance.

3 **10. Long Term Debt Cost Rate (Electric and Gas)**

4 Q. Is the Company proposing to modify the reconciliation of the costs associated
5 with its long term debt?

6 A. Yes. In the current rate plan, the Company is allowed to true-up its actual
7 weighted average cost of Variable Rate Debt (i.e., the Company's portfolio of
8 floating rate debt, including tax-exempt and taxable debt), including costs
9 associated with retirement and refinancing of the Variable Rate Debt, to the cost
10 rates reflected in the rate plan. As discussed in the direct testimony of Witness
11 Saegusa (Cost of Capital), in light of recent disturbances in the financial markets,
12 which have resulted in an unsettled and volatile interest rate environment,
13 forecasting the cost rates associated with future debt issues is increasingly
14 difficult. The Company proposes to true-up the entirety of its weighted average
15 cost of long term debt to the rate reflected in Exhibit AP-5 (i.e. 4.28%).

16 Q. Is there precedent for the Commission allowing the Company reconciliation for
17 both fixed and variable rate debt?

18 A. Yes; subsequent to the 2008 disruption in the financial markets, the Company was
19 granted reconciliation for the entirety of its weighted average cost of long term
20 debt for the period covering April 2010 through March 2013 in Case 09-E-0428.
21 The economic circumstances in the instant cases, while different from the 2008
22 disruption, also warrant such a reconciliation. While they are different, we are

DIRECT TESTIMONY – ACCOUNTING PANEL

1 currently experiencing the highest inflation in 40 years, which creates significant
2 uncertainty for interest rates.

3 **11. Legislative, Regulatory and/or Related Actions (Electric and**
4 **Gas)**

5 Q. Please describe the Company’s deferral authorization under the Legislative,
6 Regulatory and/or Related Actions provision of its current rate plan.

7 A. The current plan provides that the Company may defer costs or expenses resulting
8 from laws, rules, regulations, orders or other requirements or interpretations of
9 law if the amounts were not anticipated in the forecasts and assumptions on which
10 rates are based after a ten (10) basis points of return on common equity has been
11 met.

12 Q. Is the Company proposing to clarify the provision?

13 A. Yes. The Company proposes to clarify that it may defer “costs or expenses or
14 revenues not anticipated in the forecasts and assumptions on which the authorized
15 rates are based.” Under Generally Accepted Accounting Principles, different
16 treatment is afforded to deferrals of costs and expenses than deferrals of revenues.
17 As such, the Company is seeking to be more precise in the deferral language
18 authorized by the Commission to avoid any potential issues with appropriately
19 recognizing its deferrals on its balance sheet. The Company also seeks to clarify

DIRECT TESTIMONY – ACCOUNTING PANEL

1 that in the case of revenue deferrals, it is a deferral for surcharge recovery and not
2 until the next base rate case.²

3 **12. Prevailing Wage Law (Electric and Gas)**

4 Q. Under the current electric and gas rate plans, the Company is allowed to defer any
5 incremental expenses incurred to comply with a State Prevailing Wage Law that
6 was anticipated at the time of settlement. Is the Company proposing to continue
7 this reconciliation going forward?

8 A. Yes. Although the Company has included forecasted costs to comply with the
9 2020 Prevailing Wage Law in its revenue requirements for two sites (the West
10 End and East River facilities), there is an open legal question on whether the
11 scope of the law will be broadened to cover building service workers at additional
12 locations. As discussed by the Company's Shared Services Panel, application of
13 this law to the West End and East River facilities has doubled the costs of certain
14 service costs. The Company expects a comparable increase if the law is
15 interpreted to include additional facilities. These costs would be significant and
16 outside the Company's control. As such, the Company is proposing to continue
17 to defer incremental expenses associated with compliance with the Prevailing
18 Wage Law.

² Deferred revenue related to alternative revenue programs may not be recorded for GAAP reporting until the collection is determined to be within 24 months from the end of the annual period in which they are recognized. Thus, to be consistent with GAAP rules, sur-credit/surcharge mechanisms should be utilized for revenues unless recovery through a deferral is imminent.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **13. Pipeline Safety Acts (Gas)**

2 Q. Does the Company propose to continue its reconciliations for incremental costs
3 incurred to comply with the Pipeline Safety Act of 2011 and the Protecting our
4 Infrastructure of Pipelines and Enhancing Safety Act of 2019?

5 A. Yes, as discussed by the GIOSP, reconciliation is still necessary because of
6 uncertainties with pending regulations.

7 Q. Under its current gas rate plan, how is the Company authorized to recover
8 incremental costs incurred to comply with the Pipeline Safety Acts?

9 A. The Company is allowed to defer incremental O&M costs incurred to comply
10 with the Pipeline Safety Acts. The Company may recover carrying charges
11 (including depreciation) associated with incremental capital to comply with the
12 Pipeline Safety Acts through the MRA.

13 Q. Is the Company proposing to modify its recovery going forward?

14 A. Yes. The Company is proposing to recover incremental O&M costs via surcharge
15 to avoid a potential large deferral build-up prior to the next rate case filing. The
16 Company proposes that carrying charges associated with incremental capital costs
17 continue to be recovered through surcharge. Surcharge recovery is further
18 detailed in the direct testimony of the Company’s Gas Rate Panel.

19 **B. New Deferral Or Reconciliation Mechanisms**

20 Q. Does the Company propose to establish any new deferral or reconciliation
21 mechanisms?

22 A. Yes. The Company proposes the new deferrals or reconciliations detailed below.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **1. COVID Uncollectible Reconciliation (Electric and Gas)**

2 Q. What is the Company’s proposed accounting treatment for uncollectible expenses in
3 this case?

4 A. The Company proposes a full and symmetrical reconciliation of uncollectible
5 expenses.

6 Q. Why does the Company believe that a full and symmetrical reconciliation is
7 warranted?

8 A. The Company is unable to make an acceptable estimate of uncollectible expenses
9 given the continued uncertainty around the financial health of the Company’s
10 customers. The Company continues to see significant growth in its aged accounts
11 receivables balances since the onset of the COVID-19 pandemic when New York
12 issued its ‘on PAUSE’ and other executive orders. When and whether those
13 receivables will ultimately be collected is dependent on the strength of the
14 economic recovery in the greater New York area and whether there is a statewide
15 program addressing customer arrearages and is thus outside of the Company’s
16 control.

17 Q. How does the Company propose to perform the reconciliation calculation?

18 A. The Company’s electric and gas revenue requirements include forecasted
19 uncollectible expenses. The Company proposes to defer the difference between its
20 actual uncollectible expense reserve and the level in rates each year. The deferral
21 amount will be excluded from rate base and accrue interest at the Other Customer
22 Provided Capital Rate. The deferral amount will be fully reconciled with the
23 cumulative actual write-offs for the period January 1, 2020 through December 31,

DIRECT TESTIMONY – ACCOUNTING PANEL

1 2025. Recovery from, or refund to, customers of the annual variance for
2 uncollectible write-offs will be via surcharge. The Company will provide Staff
3 reports on any uncollectible write-off variance by April 30 of each year and begin
4 collecting/refunding uncollectible write-off variance no earlier than 30 days after
5 that notification. Final, full reconciliation on uncollectible write-offs will occur at
6 the end of 2025. At that time, any over-collections will be deferred for future
7 ratepayer benefit and the Company may continue to recover against any under-
8 collections via surcharge. Surcharge recovery is further detailed in the direct
9 testimony of the Company's Electric and Gas Rate Panels.

10 **2. Late Payment Fees (Electric and Gas)**

11 Q. What is the Company's proposed accounting treatment for late payment fees in
12 this case?

13 A. Pursuant to the Commission's *Order Authorizing Alternative Recovery*
14 *Mechanism for Unbilled Fees* in Cases 19-E-0065 and 19-G-0066, the Company
15 is reconciling late payment and other fees under its current rate plans via sur-
16 credit/surcharge. Receipt of late payment fees is driven primarily by customer
17 circumstances and is thus outside the Company's control. The COVID-19
18 pandemic has demonstrated that these revenues can be highly variable. Rather
19 than regress to the pre-pandemic status quo where the Company forecasted late
20 payment fees and then managed any over or under recovery, the Company

DIRECT TESTIMONY – ACCOUNTING PANEL

1 proposes to continue full, symmetric reconciliation of late payment fees via sur-
2 credit/surcharge.³ From a policy perspective, this is a more appropriate approach
3 as it eliminates risk to customers or the Company from variations in late payment
4 fee collections and removes the counter-productive incentive for the Company to
5 increase late payment charge revenues during a rate plan. Surcharge recovery is
6 further detailed in the direct testimony of the Company’s Electric and Gas Rate
7 Panels.

8 **3. Purchase of Receivables (“POR”) (Electric and Gas)**

9 Q. What is the Company’s proposed accounting treatment for POR revenues?

10 A. The Company is proposing to reconcile actual POR-related revenues against the
11 level included in the revenue requirement. Because ESCO can opt in or out of the
12 POR program depending on the annual rate, their actions drive variability in the
13 POR discount revenue collected. POR revenues have become a source of
14 significant financial variability (for example, the POR revenue collected during
15 the Historic Year for electric was approximately \$18 million whereas the revenue
16 target in rates for the Historic Year approximated \$27 million. A similar variance
17 can be observed in gas, where actual collections of POR revenues were \$3 million
18 versus \$9 million assumed in rates). As this variability is outside of the
19 Company’s control, a new annual reconciliation with refund/recovery via sur-

³ See *supra* n. 2.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 credit/surcharge is appropriate.⁴ Surcharge recovery is further detailed in the
2 direct testimony of the Company’s Electric and Gas Rate Panels.

3 **4. Inflation (Electric and Gas)**

4 Q. What is the Company’s proposed accounting treatment for inflation in this case?

5 A. The Company proposes reconciliation for inflation to the extent that actual
6 inflation exceeds the inflation rates assumed in the revenue requirement by a
7 specified threshold.

8 Q. Why does the Company believe that reconciliation of inflation is appropriate in
9 this case?

10 A. Current inflation rates are high relative to recent historical trends (the highest in
11 40 years) and it is unclear how long inflationary conditions will last. This renders
12 the Company unable to make a reasonable estimate of inflation in its revenue
13 requirement model. According to the U.S. Department of Commerce, Bureau of
14 Economic Analysis (“BEA”)⁵, in Q2 and Q3 of 2021, the total annualized GDP
15 price index in the United States was 6.1% and 5.9%, respectively. These are the
16 highest annualized rates in 40 years. Further, it is unclear what, if any, steps will
17 be taken to curtail inflation and what effects those steps will have on the inflation
18 rate over the next several years. The Company’s revenue requirement calculation,

4 *Id.*

5

<https://apps.bea.gov/iTable/iTable.cfm?reqid=19&step=3&isuri=1&1921=survey&1903=11#reqid=19&step=3&isuri=1&1921=survey&1903=11>

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 which, as noted above is based on data from Blue Chip Economic Indicators,
2 projects linking period inflation of 8.3% and inflation of 3.4% in RY2 and RY3,
3 but actions outside of the Company’s control will significantly affect whether
4 these projections approximate actual future conditions.

5 Q. How does the Company propose to implement an inflation reconciliation?

6 A. If the general inflation rate exceeds 5.0% (“Inflation Threshold”) in any of the
7 rate years during the Electric and Gas Rate Plans and the Company’s electric or
8 gas earnings are less than the authorized ROE (as determined in our excess
9 earnings calculation) applicable to that rate year, the Company will be allowed to
10 request authorization from the Commission to defer actual inflationary increases
11 above the Inflation Threshold applicable to the expenses subject to general
12 escalation as indicated with a “Y” in the General Escalation column of the O&M
13 expense table within Exhibits AP-3 Schedule 6. Any such request will not be
14 subject to the Company meeting the Commission’s deferral materiality threshold
15 for the impact of these cost increases.

16 The deferral will be based on the lower of the following:

- 17 (a) Inflationary increases above the Inflation Threshold, determined using Price
18 Index numbers for GDP published by the BEA applicable to the Inflation Pool; or
19 (b) Actual costs incurred by the Company for the expenses, contained in the
20 Inflation Pool, above the Inflation Threshold.

21 As an example of how the mechanism would work, if during RY2, the inflation
22 rate according to the BEA is 6.1%, as compared to the 3.4% increase in the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 expenses contained in the Inflation Pool used for purposes of establishing the
2 revenue requirements for the Electric and Gas Rate Plans, the deferral would be
3 equal to 2.7% (*i.e.*, 6.1% less the 3.4% threshold) of the Inflation Pool, provided
4 that the Company's earned ROE, as calculated pursuant to Section 10 of the
5 Proposal was less than 10.0%.

6 Q. Is there precedent for the Commission granting the Company a reconciliation for
7 the effects of inflation?

8 A. Yes; as an example, in Cases 08-G-1398 and 11-E-0408, the Commission
9 authorized a similar inflation reconciliation for O&R because there were volatile
10 inflation environments at the time of those cases.

11 **5. Regulatory Commission Assessment (Electric and Gas)**

12 Q. Is the Company introducing a reconciliation related to the regulatory commission
13 assessment?

14 A. Yes. The Company is proposing a full and symmetrical reconciliation of
15 regulatory commission General Assessment costs.

16 Q. What is the Company's rationale for requesting this reconciliation?

17 A. The regulatory commission assessment represents a significant expense for the
18 Company and estimates of the expense in the Company's revenue requirement are
19 based on assessment letters provided by the state commission. The estimates
20 provided to the Company tend to be higher than actual costs. Although this
21 results in relatively low risk for the Company and high risk for customers, the

DIRECT TESTIMONY – ACCOUNTING PANEL

1 Company believes it is appropriate to fully reconcile these costs as they are
2 outside the Company's control.

3 **6. Power Ready Electric Vehicles (Electric)**

4 Q. Is the Company introducing a reconciliation related to the Power Ready Program?

5 A. Yes. The Company's proposed electric revenue requirement reflects regulatory
6 asset amounts for the Power Ready Electric Vehicles program implementation
7 costs amortized over 5 years. As further discussed in the testimony fo the CES
8 Panel, the Company proposes a cumulative reconciliation of the revenue
9 requirement effect of the actual level of costs incurred against the three-year
10 targets (RY1 to RY3).

11 As discussed further in the direct testimony of the Company's CES Panel, the
12 Company anticipates a potential change in the this program funding cap prior to
13 RY3. The Company intends to propose surcharge recovery in the Make Ready
14 proceeding. To the extent the funding cap is increased subsequent to the rate
15 plan being finalized and no surcharge mechanism is authorized in the Make
16 Ready proceeding, the Company proposes that reconciliation targets in this case
17 will be automatically adjusted to the updated cap.

18 **C. Terminated Deferral or Reconciliation Mechanism**

19 Q. Does the Company propose to terminate any deferral or reconciliation
20 mechanisms?

21 A. Yes. The Company proposes to terminate the deferral or reconciliation
22 mechanisms discussed below.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **1. Sales and Use Tax Refunds 2019**

2 Q. The current rate plans have a reconciliation in place to address sales and use tax
3 refunds related to the June 1, 2015 through May 31, 2018 audit period. Is the
4 Company proposing to terminate this mechanism going forward?

5 A. Yes. The refunds related to this audit period have been received during the
6 current rate plan and the associated deferral is included within this filing. No
7 further action is needed and, as a result, the reconciliation is no longer necessary.
8 Note that the Company is proposing to continue, without modification, the sales
9 and use tax reconciliation for future assessments/refunds.⁶

10 **2. Taxes on Health Insurance**

11 Q. Under the current electric and gas rate plans, the Company reconciles the
12 difference between the estimate and actual excise taxes that were scheduled to
13 become effective under the Affordable Care Act. Is the Company proposing to
14 terminate this mechanism going forward?

15 A. Yes. The excise tax under the Affordable Care Act was repealed by the federal
16 government in 2019. As a result, this mechanism is no longer necessary.

⁶ Under this provision, the Company has reflected a sales and use tax refund to customers of approximately \$3.9 million received during its current rate plan in its proposed revenue requirements.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 **3. NYC Local Law 97**

2 Q. Under the current electric and gas rate plans, the Company is allowed to defer
3 incremental costs incurred to bring the Company’s buildings into compliance with
4 NYC Local Law 97. Is the Company proposing to terminate this reconciliation
5 going forward?

6 A. Yes. The Company now has an understanding of the work necessary to comply
7 with Local Law 97 and is able to reflect costs within its forecasts going forward.
8 None were forecast for this rate plan. As such, the reconciliation is no longer
9 necessary.

10 **4. Gas Service Lines**

11 Q. Under the current gas rate plan, the Company is allowed to defer for surcharge
12 recovery certain incremental costs associated with inspection and maintenance of
13 gas service lines. Is the Company proposing to terminate this reconciliation going
14 forward?

15 A. Yes. After receiving clarification on survey/inspection intervals in Case 15-G-
16 0244, and a Staff directive how to implement the inspections, the Company is
17 now able to estimate the costs of compliance within the revenue requirement in
18 this filing. As such, the reconciliation is no longer necessary.

19 **XVII. MULTI-YEAR RATE PLAN**

20 Q. Has the Company included forecasted financial information for periods beyond
21 the Rate Year in its filing?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 A. Yes. The Company has included, for illustrative purposes only, financial
2 information for two annual periods beyond the Rate Year. Details of the revenue
3 requirement for the Rate Year and the two following twelve-month periods,
4 ending December 31, 2024, and December 31, 2025, are presented within
5 Exhibits AP-3.

6 Q. What is the basis of the financial information presented in Exhibits AP-3?

7 A. Various Company witnesses have presented forecasts extending beyond the Rate
8 Year. There are also proposals by various witnesses, including the Accounting
9 Panel, which would affect periods beyond the Rate Year, such as amortization
10 periods for deferred costs and credits.

11 Q. Is the Company proposing a multi-year rate plan for adoption by the
12 Commission?

13 A. No. This filing seeks Commission approval of what is commonly referred to as
14 “one-year rates” for electric and gas services. The Company is, however,
15 interested in pursuing, through settlement discussions with Staff and interested
16 parties, multi-year rate plans.

17 **XVIII. MANAGEMENT AND OPERATIONS AUDITS**

18 Q. Please discuss any developments in Commission-initiated management and
19 operations audits since the Company’s last base rate cases.

20 A. At the time of the Company’s last base rate filings, the Company had three open
21 management and operation audits.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

1 First, Case 14-M-0001 was a comprehensive management and operations audit of
2 Con Edison and O&R pursuant to Public Service Law §66(19). At the time, the
3 Company had completed 35 of 36 recommendations and Staff had accepted and
4 closed 32 of 36 recommendations. In December 2021, Staff granted a change to
5 the implementation timeline and allowed the Company until June 30, 2022 to
6 implement the final recommendation.

7 Second, Case 13-M-0449 was an internal staffing audit. Although the Company
8 had implemented all 24 recommendations at the time of its last base rate filing, a
9 number of those recommendations were pending Staff review and closeout. Staff
10 closed all 36 recommendations in April 2019.

11 Third, Case 18-M-0013 was an income tax accounting audit. The audit report
12 was pending at the time of the Company's last base rate filing. The report is
13 currently still pending.

14 Q. Has the Commission commenced any new Commission-initiated management and
15 operations audits since the Company's last base rate cases?

16 A. Yes. In Case 21-M-0193, the Commission commenced a comprehensive
17 management and operations audit of Con Edison and O&R pursuant to Public
18 Service Law §66(19). The final report is currently expected by August 2022.

19 Q. Does that conclude your direct testimony?

20 A. Yes, it does.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY OF

DEMAND ANALYSIS AND COST OF SERVICE PANEL

Table of Contents

| | | |
|-------|--------------------------------------|----|
| I. | INTRODUCTION | 2 |
| II. | PURPOSE OF TESTIMONY | 4 |
| III. | CLASS DEMAND STUDY | 5 |
| IV. | ECOS STUDY | 15 |
| V. | SEASONAL RATE STUDY | 26 |
| VI. | NYPA RATE CLASSES ECOS STUDY | 28 |
| VII. | RATE CASE ENHANCEMENTS PROJECT | 29 |
| VIII. | MARGINAL COST ANALYSIS | 31 |

1 I. INTRODUCTION

2 Q. Would the members of the Demand Analysis and Cost of Service
3 Panel (the "Panel") please state their names and business
4 address?

5 A. William Atzl, Yan Flishenbaum, and Christine Kim, 4 Irving
6 Place, New York, New York 10003.

7 Q. By whom are you employed, in what capacity, and what are your
8 professional backgrounds and qualifications?

9 A. **(Atzl)** We are employees of Consolidated Edison Company of New
10 York, Inc. ("Con Edison" or the "Company"). I am Director of
11 the Rate Engineering Department. My background is as
12 follows: In 1983, I graduated from the State University of
13 New York at Stony Brook with a Bachelor of Engineering degree
14 in Mechanical Engineering. In 1989, I graduated from Pace
15 University with a Master of Business Administration degree in
16 Management Information Systems. I am a Licensed Professional
17 Engineer in the State of New York. My first job was with
18 Long Island Lighting Company in 1983 where I held the
19 position of Assistant Engineer in the New Business
20 Department. In 1984, I joined Orange and Rockland Utilities,
21 Inc. ("O&R") as a Commercial and Industrial Representative in
22 the Commercial Operations Department. At O&R, I also held
23 the positions of Commercial and Industrial Engineer, Program
24 Administrator - Demand-Side Management, Manager - Demand-Side
25 Management Operations, Manager - Energy Services and Pricing,

1 and Manager - Regulatory Affairs. In October 1999, I joined
2 Con Edison and held the position of Department Manager -
3 Electric and Gas Rate Design - O&R and Director prior to my
4 present position. I have testified in numerous regulatory
5 proceedings before the New York State Public Service
6 Commission ("Commission"), New Jersey Board of Public
7 Utilities and Pennsylvania Public Utility Commission.

8 **(Flishenbaum)** I am a Department Manager in the Rate
9 Engineering Department. I received a Bachelor of Business
10 Administration Degree in Economics from Pace University in
11 2001 and a Master of Business Administration Degree in
12 Finance and Economics from New York University in 2008. In
13 2001, I began my employment with Con Edison in the Cost
14 Analysis Area of the Rate Engineering Department. In 2003, I
15 was promoted to Analyst, mainly involved in the development
16 of the costing methodologies related to unbundling. I was
17 promoted to Senior Analyst in 2005. In 2008, I was promoted
18 to Senior Rate Analyst responsible for developing the
19 Company's cost-of-service models. In 2013 I was promoted to
20 Section Manager of the Electric Rates area of the Rate
21 Engineering Department. I was promoted to my current
22 position in 2016. I previously testified before this
23 Commission.

24 **(Kim)** I am the Section Manager of the Load Research section
25 in the Rate Engineering Department. In that capacity, I am

1 responsible for preparing demand analyses related to electric
2 service. Additionally, I have a variety of duties related to
3 load research sample design and data analysis. I began my
4 employment with Con Edison in 2010 as a Senior Energy Analyst
5 in Forecasting Services. In 2013 I moved into Load Research
6 as a Senior Rate Analyst and in 2018 was promoted to Section
7 Manager. I received a Bachelor of Arts degree in Economics
8 from New York University in 2007, and a Master of Science
9 degree in Quantitative Methods and Modeling from Baruch
10 College in 2012. Prior to working for Con Edison, I worked as
11 an analyst for MCEnergy Inc., an energy consulting company
12 providing consulting services and brokering energy deals for
13 various REITS (Real Estate Investment Trusts) throughout the
14 country. I have been in my current position since November
15 2018 and have previously testified before this Commission.

16 **II. PURPOSE OF TESTIMONY**

17 Q. What is the purpose of the Panel's testimony?

18 A. Our testimony:

- 19 (1) presents the Company's Class Demand Study;
- 20 (2) presents the Company's Electric Embedded Cost-of-
21 Service ("ECOS") study;
- 22 (3) presents the Company's Seasonal Rate Study;
- 23 (4) presents the Company's NYPA Rate Classes ECOS study;
- 24 and

1 (5) describes and requests capital funds for a computer
2 system enhancement program associated with performing
3 bill analyses on certain off-system data, including
4 enhancements to reflect changes to billing and data
5 requirements and data handling.

6 Our testimony also addresses marginal costs.

7 **III. CLASS DEMAND STUDY**

8 Q. Have you prepared an exhibit showing the Class Demand Study?

9 A. Yes. Exhibit ___ (DAC-1) is entitled "Consolidated Edison
10 Company of New York, Inc., Class Demand Study - Electric
11 Department, Year 2019." It includes four pages of
12 descriptive text, a two-page index, and over 150 pages of
13 tabular reports.

14 Q. Please describe the purpose of the Class Demand Study.

15 A. The Class Demand Study presents energy and demand cost
16 responsibility measures for each Company service class and
17 for NYPA delivery service customers. These cost
18 responsibility measures, in turn, were used in the ECOS Study
19 presented in this proceeding.

20 Q. Please describe the cost responsibility measures developed in
21 the Class Demand Study.

22 A. There are two general types of cost responsibility measures
23 used in the ECOS study - energy cost responsibility measures
24 and demand cost responsibility measures. Energy cost
25 responsibility measures reflect total kilowatt-hours that

1 customers use over the entire year. Demand cost
2 responsibility measures reflect customer demands during peak
3 periods and are divided into two categories. The first is
4 system peak responsibility, which reflects customer demands
5 at the time of the Con Edison system peak. The second is
6 class non-coincident peak responsibility, which reflects
7 customer demands at the times of individual class peaks. The
8 Class Demand Study develops a set of demand and energy cost
9 responsibility measures for various delivery systems. We
10 describe these delivery systems later in our testimony.

11 Q. What period does your study cover?

12 A. It covers calendar year 2019 and includes specific analyses
13 of the summer and winter peak periods for that year.

14 Q. Please explain the general organization of Exhibit ____ (DAC-
15 1), Schedule 1.

16 A. The title page is followed by four pages of explanatory notes
17 and an index for the study's tabular data. Tabular Reports 2
18 through 4 show step-by-step development of demand and energy
19 cost responsibility measures for each service class. Tabular
20 Reports 5 through 8 summarize results of the detailed class-
21 by-class analyses contained in Reports 2 through 4.

22 Q. Please summarize the demand and energy cost responsibility
23 measures developed in the Class Demand Study and indicate
24 where these data are found.

25 A. The following table shows this information:

1 now sourced from the pool of new AMI interval meter
2 installations approved in Case 15-E-0050.
3 Report 3 shows a summary of class population data by stratum
4 for each service class.
5 Finally, Report 4 shows the resulting class demand
6 responsibilities by stratum for each service class.
7 Reports 2, 3, and 4 are provided by class for both the summer
8 and winter peak periods.

9 Q. Please continue with your explanation of the remaining
10 reports in this Exhibit.

11 A. Report 5 shows electrical energy flows for the Con Edison
12 System for the year 2019. This report forms the basis for
13 energy cost responsibility measures, and develops the annual
14 energy flow, in kilowatt-hours, through the various paths of
15 the electrical T&D system, starting at the system input level
16 and continuing to the customers' meters. It considers cable
17 and equipment losses and unaccounted-for-energy. The report
18 shows total kilowatt-hours registered at the customers'
19 meters, total kilowatt-hours at the system input level, sales
20 to other utilities, and kilowatt-hours delivered to the local
21 distribution system.

22 Q. Please continue with your explanation of Report 5.

23 A. Report 5 also shows the kilowatt-hours distributed and sold,
24 the distribution efficiency for each delivery system, and the
25 resultant annual energy distribution efficiency for each

1 customer class. This efficiency calculation reflects the
2 various paths that energy takes from delivery system input to
3 customers.

4 Q. Please explain what you mean by "delivery system."

5 A. Power generally flows from generation sources to customer
6 loads through an electrical grid composed of high voltage
7 transmission lines and substations, and lower voltage
8 distribution lines and substations. For purposes of the
9 Class Demand Study, the grid is subdivided into separate
10 serially-connected systems, which are called delivery
11 systems.

12 Q. Please continue with your explanation of the reports shown in
13 Exhibit ___ (DAC-1), Schedule 1.

14 A. Report 6 provides a summary of the class demand
15 responsibilities for each season, obtained from the
16 individual pages of Report 4. Report 6A develops the low
17 tension non-coincident billing kilowatts based on the low
18 tension kilowatt-hours shown in Report 5.

19 Report 7 is similar to Report 5, except that it shows in
20 greater detail the kilowatt-hour flow, by class, from the
21 system input level through the various delivery systems, to
22 the customers' meters.

23 Report 8 traces the class non-coincident summer and winter
24 peak demands through the various levels of the delivery

1 system, starting at the customers' meters and terminating at
2 the system input level.

3 Q. As a typical example of the calculation procedure used for
4 each class in this exhibit, please describe the method
5 employed in developing the summer and winter class demand
6 responsibility estimates for Service Classification ("SC") 1,
7 the Residential and Religious class.

8 A. Referring first to Report 2 (summer page 1, winter page 1),
9 the data in Columns 3 through 9 were developed from load
10 tests that the Company performed on sample residential and
11 religious test customers. Column 2 lists the sample test
12 strata. Columns 3 and 4 show the range of consumption or
13 demand for the customers in each test stratum. Column 5
14 shows the number of customers in each stratum for which test
15 results were obtained. Column 6 shows the calculated average
16 consumption or demand per customer for each test stratum.
17 Columns 7 and 8 show the load test results reduced to average
18 kilowatts per customer for each test stratum. Column 7 lists
19 the summer (average of July and August) and winter (average
20 of January and February) maximum demands per customer. Column
21 8 lists the maximum coincident demand per customer for each
22 test stratum, based on averages for five selected system peak
23 days for the summer or five selected system peak days for the
24 winter during the test period. Column 9, derived from

1 Columns 7 and 8, shows the calculated coincidence factor for
2 each test stratum.

3 Q. Please describe the derivation of the coincidence factors.

4 A. The coincidence factors are derived from interval-metered
5 data collected for the load test customers. For each stratum
6 of test customers, the recorded half-hourly demand data
7 obtained from each test location were averaged for the five
8 seasonal system peak days. For this study, the coincidence
9 factor is defined as the ratio of the per-customer maximum
10 coincident half-hour demand of a stratum of test customers,
11 averaged for five days, to the per-customer individual
12 maximum non-coincident half-hour demands of the test
13 customers in that stratum.

14 Q. Please continue your explanation of the SC 1 reports.

15 A. Turning to Report 3, the stratum definitions are shown in
16 columns 3 and 4. The stratum level customer count and
17 kilowatt-hours for the residential class shown in columns 5
18 and 6 were derived from billing records for the year 2019.
19 Column 7 contains the average usage by stratum based on
20 columns 5 and 6. The summer and winter coincident maximum
21 half-hour demands for each stratum in the class population
22 were then calculated using the respective sample test stratum
23 load characteristics. These results appear in Column 11, and
24 the computations are described in footnotes.

25 Q. Please continue.

1 A. Since each stratum's maximum half-hour demand (shown in
2 Column 11) occurs at different times, complete daily profile
3 curves were computed for each stratum in the class, again
4 based on test results. The summation of all 24-hour stratum
5 load curves at the customers' meters produced composite
6 summer and winter load curves for the entire class. The
7 summer and winter coincident half-hour demands for each
8 stratum shown in Column 5 of Report 4 were obtained by
9 examining the stratum load curves at the time of the class
10 peak. The summer and winter class load curves were further
11 examined to determine the average class demands for the
12 highest continuous four-hour period. Those results are shown
13 in Column 6 of Report 4.

14 The demands described so far have all been based on
15 measurements and calculations at the customers' meters. To
16 determine the system input level class responsibility shown
17 in Column 8, the class demand at the customers' meters was
18 divided by the annual distribution efficiency for the class.
19 The class distribution efficiencies are shown on Report 5 of
20 this exhibit. After applying class distribution
21 efficiencies, the calculated grand total of all the class
22 load curves, developed through the procedures described thus
23 far, closely approximates but does not exactly match the
24 known total system load curve at each half-hour. The total
25 discrepancy during the high load periods of the day is

1 generally found to be a few percent during any half-hour.
2 For sampled classes, a percentage adjustment factor for every
3 half-hour was applied to each of the class demands. For
4 those classes with sampled test data that were borrowed, an
5 adjustment factor equal to two times the above-mentioned
6 adjustment factor was applied. Classes that are 100%
7 profile-metered did not receive any adjustment. After
8 adjusting the class data, the total of all class profiles
9 exactly matched the total system load curve. The demand
10 values in Columns 7, 9, and 10 of Report 4 are the adjusted
11 class demands. These values are the average demands obtained
12 from class load profiles for the four peak hours of the
13 seasonal system peak load shape or the class peak load shape.

14 Q. Please continue with the explanation of the development of
15 the demands for SC 1.

16 A. Report 6 (starting at Page 6-1), Columns 5, 6, 7, and 8,
17 summarizes the class seasonal demand responsibilities
18 developed in Report 4. Report 6A (starting at Page 6A-1),
19 Column 7, develops the low tension non-coincident billing
20 kilowatts, using the total non-coincident billing kilowatts
21 in Report 3 and the relationship of low tension kilowatt-
22 hours to total kilowatt-hours found in Report 5.

23 Report 7 (starting at page 7-1) provides a more detailed
24 analysis of the kilowatt-hour flow for each class through
25 each of the delivery systems listed in Column 3. Column 4,

1 which comes directly from Report 5, Column 4, shows total
2 kilowatt-hours (high tension plus low tension service)
3 delivered to customers' meters. Column 5 of Report 7 shows
4 only low tension kilowatt-hours delivered to the customers'
5 meters. Column 6 shows kilowatt-hour input to the secondary
6 (line) transformers, and Column 7 shows kilowatt-hours
7 distributed at the system input level. Kilowatt-hours shown
8 in Columns 6 and 7 are calculated using the electrical path
9 efficiencies shown in Report 5.

10 Report 8 (starting at Page 8-1) traces the four-hour class
11 non-coincident peak, obtained from Column 7 of Report 4,
12 through each of the delivery systems shown in Columns 5
13 through 7. Report 8 utilizes the energy flows shown in
14 Report 7 and assumes that the energy delivered through each
15 component of the system has a load factor identical to that
16 of the entire class.

17 Q. Do the computations and analyses, which you have just
18 described for SC 1, apply to the other classes shown in this
19 exhibit?

20 A. Yes. With a few exceptions, which we will describe, the
21 analyses for the remaining classes are similar to those for
22 SC 1.

23 Q. Please describe the exceptions to which you referred.

24 A. For street lighting and traffic signals load shape
25 estimation, lamp wattages in service and lamp burning hours

1 (with an allowance made for lamp outages) were used to arrive
2 at the estimated class demand responsibilities.

3 **IV. ECOS STUDY**

4 Q. Did you prepare an exhibit showing the ECOS study and
5 unbundled cost components analysis?

6 A. Yes, Exhibit ____ (DAC-2) is entitled "Consolidated Edison
7 Company of New York, Inc. - Embedded Cost of Service -
8 Electric Department - Year 2019 Rates in Effect January 1,
9 2022."

10 Q. Please provide a general description of the ECOS study.

11 A. The ECOS study and unbundled cost components exhibit consists
12 of three schedules. Schedule 1 shows the results of the
13 study. Schedule 2 shows the Merchant Function Charge ("MFC")
14 calculations. Schedule 3 shows the unbundled costs for
15 printing and mailing a bill and receipts processing
16 functions.

17 Q. Please continue.

18 A. The ECOS study (Schedule 1) analyzes, on a class basis for a
19 past period, revenues and book (accounting) costs for
20 specific cost categories.

21 Q. What cost categories are analyzed in this ECOS study?

22 A. The ECOS study analyzes costs and revenues associated with
23 the Company's delivery system (i.e., transmission and
24 distribution), and customer-related cost categories or
25 functions, and also includes cost categories related to the

1 electric merchant function, the receipts processing function
2 and the printing and mailing a bill function. The major
3 supply function costs, *i.e.*, purchased power and generation
4 costs, are not included in the ECOS study. Also, revenues
5 and expenses associated with the uncollectible component of
6 the MFC and the System Benefits Charge ("SBC") have been
7 excluded from the study.

8 Q. What time period does the ECOS study cover?

9 A. The study covers Con Edison's electric operations for the
10 calendar year 2019.

11 Q. Why did the Company select 2019 as the historical test year
12 for its ECOS study in this case?

13 A. The Company determined that 2020 does not represent a
14 reasonable test year given the abnormal disruptions to
15 customer behavior due to the COVID-19 pandemic that occurred.
16 2019 was selected as the test year, since it represents a
17 calendar year more closely resembling conditions expected to
18 occur during the rate plan contemplated in this case. For
19 instance, many restrictions in place during 2020 are not
20 expected to be in place in 2023 and beyond. These include
21 severe disruptions to the hospitality industry, such as
22 closures of restaurants and hotels; as well as restrictions
23 on subway service, and entertainment and sports venues. We
24 note here that, as described in the testimony of the Electric

1 Forecasting Panel, the expectation is that New York City will
2 have generally returned to its pre-pandemic normal in 2023.

3 Q. What electric revenues are reflected in the ECOS study?

4 A. Electric revenues reflect 2019 customer usage priced at
5 delivery rates which went into effect January 1, 2022.

6 Q. What customer classes are analyzed in the ECOS study?

7 A. The study analyzes classes of customers corresponding to SCs
8 contained in our electric rate schedules, including retail
9 access customers and customers of NYPA served by Con Edison
10 under the P.S.C. No. 12 - Electricity schedule.

11 Q. Did the Panel make any methodological changes to the ECOS
12 Study since the Company's last filing?

13 A. Yes. The Joint Proposal adopted by the Commission in Cases
14 19-E-0065 provided for the elimination of competitive
15 metering charges consisting of meter data service provider,
16 meter service provider and meter ownership charges.
17 Corresponding functions have been eliminated from this ECOS
18 study.

19 Q. Please continue with a description of the ECOS study and
20 explain how the results of the ECOS study are expressed.

21 A. The results of the ECOS study are expressed as Total Company
22 ("total system") and class rates of return.

23 Q. What is the total system rate of return shown in the ECOS
24 study?

1 A. The total system rate of return is 11.81% as shown on Table
2 1, Page 1, Column (1), Line 17 of the ECOS study. In
3 addition, Table 1 shows rates of return for all classes
4 analyzed in the ECOS study. For example, the SC 1 return is
5 11.39%, the SC 9-General Large-Non-Time-of-Day ("NTD") return
6 is 12.10% and the NYPA return is 10.06%.

7 Q. Has the Commission historically employed "tolerance bands"
8 around the system rate of return in developing class revenue
9 responsibilities?

10 A. Yes. Based on past practice, class revenue responsibility
11 has been measured with respect to a +10% tolerance band
12 around the total system rate of return. Classes would not be
13 considered "surplus" or "deficient" if the class ECOS rate of
14 return falls within this tolerance band. Classes that fall
15 outside this range would be either surplus or deficient by
16 the revenue amount, including appropriate state and federal
17 income taxes, necessary to bring the realized return to the
18 upper or lower level of the band. We propose to continue
19 this practice in this case.

20 Q. Based on the application of the +10% tolerance band around
21 the calculated total system rate of return of 11.81%, what
22 are the ECOS study class surpluses and deficiencies?

23 A. The revenue surpluses are shown on Table 1, Line 26 and the
24 revenue deficiencies are shown on Line 27. For example, the
25 NYPA class has a revenue deficiency of \$18,923,396 below the

1 lower level of the tolerance band. The SC 9-General Large-
2 TOD class has a revenue surplus of \$23,890,981 above the
3 upper level of the tolerance band.

4 Q. What is the significance, for example, of the NYPA class
5 deficiency?

6 A. The deficiency is the amount of revenue increase, at current
7 rates, required to bring NYPA's return to the lower level of
8 the tolerance band around the system rate of return.

9 Q. Please describe what is shown on Table 1A, which is the last
10 page of Exhibit ___ (DAC-2) Schedule 1.

11 A. Due to the application of a 10% tolerance band around the
12 system rate of return, the total of the ECOS surpluses and
13 deficiencies in this study is a net system surplus. To
14 ensure that ECOS study indications are revenue neutral to the
15 Company, Table 1A adjusts classes with a rate of return below
16 the system average based on their respective non-competitive
17 delivery revenues used in the study to offset the net system
18 surplus.

19 Q. Were any further adjustments made to Table 1A?

20 A. Yes, based on review of the ECOS study results, the Panel
21 chose to exclude the SC 13 cost indications from the Table 1A
22 analysis.

23 Q. Please explain the reasoning behind this decision.

24 A. SC 13 has only one account, a large residential housing
25 complex that currently operates its own generator. Its use

1 of the Con Edison system is erratic, changing not only from
2 day to day, but from one cost study to another.

3 Q. Why would you choose to exclude the ECOS Study results for SC
4 13 from the Table 1A analysis and not do the same for other
5 classes?

6 A. Recognizing the \$1.2 million surplus, which is close to 50%
7 of the SC 13 class revenues, could create tremendous rate
8 instability. To change rates now, knowing that the cost
9 indications could shift significantly in the next study, does
10 not allow for proper cost assignment to a customer whose
11 potential use of the Company's distribution system remains
12 unchanged.

13 Q. Please continue with your explanation of Table 1A.

14 A. A check was made to make sure that classes affected by the
15 adjustment described above remained within the tolerance band
16 after reflecting the adjustments shown in Table 1A. The
17 adjusted ECOS study indications are used in revenue
18 allocation as described in the testimony of the Electric Rate
19 Panel.

20 Q. Let us now turn to the methodology used in developing the
21 ECOS study. Please describe the procedures followed in the
22 preparation of this study.

23 A. There are two main steps in the preparation of the ECOS
24 study: (1) functionalization and classification of costs to
25 operating functions, such as transmission, distribution,

1 customer accounting and customer service with further
2 division into sub-functions, such as distribution demand,
3 distribution customer, and services; and (2) allocation of
4 these functionalized costs to customer classes.

5 Q. Please describe the functionalization and classification
6 step.

7 A. The functionalization and classification step assigns the
8 broad accounting-based cost categories to the more detailed
9 categories employed in the ECOS study. This level of detail
10 is required to differentiate, for example, demand-related
11 costs from customer-related costs. This allows for the
12 proper allocation of these costs to the classes based on cost
13 causation.

14 Q. Please continue.

15 A. During the process of functionalization, all costs are
16 classified as being demand-related, energy-related or
17 customer-related. Demand-related costs are fixed costs
18 created by the loads placed on the various components of the
19 electric system. Energy-related costs are variable costs
20 resulting from the total kilowatt-hours delivered during the
21 year. Customer-related costs are fixed costs that are caused
22 by the presence of customers connected to the system,
23 regardless of the amounts of their demand or energy usage.

24 Q. Please describe the allocation step in the study.

1 A. The allocation step allocates the functionalized and
2 classified costs to the customer classes based on the
3 appropriate demand, energy or customer allocation factors,
4 which are shown on Table 7 of the ECOS study.

5 Q. Please explain the general organization of the ECOS study.

6 A. The ECOS study begins with explanatory notes detailing
7 sources of data and methods used in the preparation of the
8 ECOS study followed by seven tables of cost data.

9 Q. Does the ECOS study present unbundled functional costs for
10 competitive services as set forth in the Commission's
11 Statement of Policy on Unbundling and Order Directing Tariff
12 Filings, issued August 25, 2004, in Case 00-M-0504
13 ("Unbundling Policy Statement")?

14 A. Yes. The ECOS study separately identifies the following
15 competitive functions: merchant function, receipts
16 processing, and printing and mailing a bill.

17 Q. What costs are included in the merchant function?

18 A. The merchant function contains costs associated with procuring
19 electric commodity, including an allocation of customer care-
20 related activities, customer service-related activities, and
21 Information Technology.

22 Q. What costs are included in the allocation of customer care and
23 customer service-related activities?

24 A. The customer care allocation includes costs associated with
25 the Company's Call Centers, Service Centers, and credit and

1 collection/theft activities. The customer service allocation
2 also includes an assignment of outreach and education costs.

3 Q. How were these costs allocated to the merchant function?

4 A. Pursuant to the Unbundling Policy Statement, customer care and
5 customer service-related costs were allocated to the merchant
6 function on the basis of total revenues (including SBC, MSC,
7 MAC, T&D, NYPA, MFC and BPP revenues).

8 Q. How were IT costs allocated to the merchant function?

9 A. Pursuant to the Unbundling Policy Statement, IT costs were
10 allocated on the basis of total revenues with 50 percent of
11 the resultant allocation included in the merchant function.

12 Q. Have you further unbundled the merchant function for use in
13 developing rate components for competitive services?

14 A. Yes. The ECOS study includes the development of separate
15 supply-related and credit and collection-related ("C&C-
16 related") MFC components to recover the costs for these
17 commodity-related competitive services from three categories
18 of customers.

19 Q. How have you defined these costs?

20 A. The MFC is made up of two components. The first consists of
21 the costs associated with procuring commodity and an
22 allocation of IT and outreach and education associated with
23 commodity (hereafter referred to as the competitive supply-
24 related MFC component). The second consists of costs
25 associated with credit and collection/theft (hereafter

1 referred to as the competitive credit and collection related
2 MFC component). Only full service customers will pay the
3 competitive supply-related and competitive credit and
4 collection-related MFC components.

5 Q. How are these components allocated to the service
6 classifications within the study?

7 A. One hundred percent of electric procurement activity costs and
8 25 percent of credit and collection/theft, IT, and outreach
9 and education costs were allocated on a per kilowatt-hour
10 basis. The remaining 75 percent of credit and
11 collection/theft, IT, and outreach and education costs were
12 allocated on a per customer basis.

13 Q. Why were the customer care-type costs, such as credit and
14 collection/theft, allocated predominantly on the basis of
15 number of customers, while the electric procurement activity
16 was allocated entirely on a volumetric (i.e., kWh consumption)
17 basis?

18 A. The Company followed basic cost causation principles and
19 determined that customer care-type activities are
20 predominantly driven by the existence of customers on the
21 system as opposed to their usage characteristics.
22 On the other hand, the functional cost of purchasing commodity
23 is aligned with sales volumes. This allocation is consistent
24 with the Order Adopting Unbundled Rates and Backout Credits
25 and Specifying Terms for the Recovery of Revenues Lost As a

1 Result of Such Rates and Credits, issued April 15, 2005, in
2 Case 04-E-0572, ("April 15 Order"), approving Con Edison's
3 unbundled rates.

4 Q. Is the allocation of the MFC components to various groups of
5 customers shown in Exhibit ____ (DAC-2)?

6 A. Yes. Schedule 2 of Exhibit ____ (DAC-2), pages 1 and 2, shows
7 the allocation of the competitive supply-related MFC cost
8 components and the competitive C&C-related MFC cost components
9 to the residential and two non-residential/commercial
10 categories of customers. The Exhibit presents these two
11 components as percentages of total revenues, i.e., the sum of
12 the T&D and competitive revenues (MFC, Metering, BPP and POR
13 Discount Credit and Collection revenues) used in the ECOS
14 study. Separate percentages are shown for the residential and
15 the two non-residential/commercial groups of customers for use
16 in the development of the MFC, as detailed in the testimony of
17 the Electric Rate Panel.

18 Q. Is the allocation of unbundled costs for the printing and
19 mailing a bill and receipts processing functions shown on
20 Exhibit ____ (DAC-2), Schedule 3?

21 A. Yes. Schedule 3 of Exhibit ____ (DAC-2), pages 1 and 2, shows
22 the unbundled costs for printing and mailing a bill and
23 receipts processing functions. The printing and mailing a
24 bill function and the receipts processing function consist of
25 the customer accounting expense of accepting customer payments

1 and billing customers, including both direct costs and an
2 allocation for Call Center and Walk-in Center operations based
3 on a detailed study of those activities. Credit and
4 collection, education and outreach, and uncollectible expenses
5 were allocated to these functions on the basis of functional
6 revenues. The unbundled average unit cost for receipts
7 processing is 48 cents per bill. The average unit cost for
8 printing and mailing a bill is 73 cents per bill. The costs
9 for these two functions combined yield \$1.21 per bill in
10 unbundled costs. The costs associated with billing and
11 payment processing do not vary by service classification and,
12 thus, the system-wide \$1.21 per bill in unbundled costs is
13 applicable to all service classifications. The Electric Rate
14 Panel makes a recommendation about how to handle these costs.

15 **V. SEASONAL RATE STUDY**

16 Q. Have you prepared an exhibit showing the Seasonal Rate Study?

17 A. Yes. Exhibit ___ (DAC-3) is entitled the "Seasonal Rate
18 Study".

19 Q. Please provide some background on the Seasonal Rate Study.

20 A. The Joint Proposal adopted by the Commission in Cases 19-E-
21 0065 and 19-G-0066 required the Company to study the cost
22 basis for seasonal differentials in both the Con Edison and
23 NYPA tariffs. Pursuant to the Joint Proposal, on January 19,
24 2021 the Company submitted its Seasonal Rate Study based on
25 its 2017 Demand Analysis and ECOS study. On March 3, 2021

1 the Company held a meeting with interested parties to discuss
2 the methodology used to develop the study and its results.

3 Q. Please continue.

4 A. The Seasonal Rate Study being submitted in this proceeding is
5 an update of the Seasonal Rate Study described above. It
6 uses the same methodology and is based on the 2019 Demand
7 Analysis and ECOS study exhibits sponsored by the Panel in
8 this testimony.

9 The Company's proposed methodology to study seasonal rate
10 differentials in its tariffs is based on a comparison of
11 seasonal differentials in current rates to those exhibited in
12 the Company's ECOS study. The class-specific seasonal
13 delivery revenue ratios shown in Exhibit___(DAC-3) reflect
14 the ratio of monthly summer delivery revenue to monthly
15 winter delivery revenue based on 2019 customer usage priced
16 at delivery rates which went into effect January 1, 2022.
17 This is consistent with revenues used to develop the ECOS
18 study.

19 The class-specific seasonal cost ratios shown on Exhibit ___
20 (DAC-3) reflect the ratio of monthly summer costs to monthly
21 winter costs based on the 2019 ECOS study and Demand
22 Analysis. These ratios were developed based on
23 classification of demand-related costs into load carrying
24 facilities that were deemed to exhibit seasonal differences;
25 and customer-related costs into non-load carrying facilities

1 that do not exhibit seasonal differences and remain constant
2 throughout the year.

3 Q. Is the Panel making any recommendations based on the Seasonal
4 Rate Study filed in this case?

5 A. Yes. The results of the study clearly indicate two outlier
6 service classes where summer/winter ratios currently embedded
7 in rates greatly exceed cost-based summer/winter ratios.
8 Therefore, the Panel recommends that seasonal rate
9 differentials for SC8 TOD and SC9 TOD be adjusted to begin to
10 gradually approach cost-based indications. The testimony of
11 the Electric Rate Panel will describe these adjustments.

12 **VI. NYPA RATE CLASSES ECOS STUDY**

13 Q. Have you prepared an exhibit showing the NYPA Rate Classes
14 ECOS study?

15 A. Yes. Exhibit ____ (DAC-4) is entitled the "NYPA Rate Classes
16 ECOS study".

17 Q. Please provide some background on the NYPA Rate Classes ECOS
18 study.

19 A. The Joint Proposal adopted by the Commission in Cases 19-E-
20 0065 and 19-G-0066 required the Company to expand the 2017
21 electric ECOS study to provide results for three NYPA classes
22 (Rate I Demand, Rate I Non-demand, and Rate II). Pursuant to
23 the Joint Proposal, on January 19, 2021 the Company submitted
24 the NYPA Rate Classes ECOS study. On March 3, 2021 the

1 Company held a meeting with interested parties to discuss the
2 study's results.

3 Q. Please continue.

4 A. The NYPA Rate Classes ECOS study being submitted in this
5 proceeding is an update of the study described above,
6 provided for illustrative purposes only. It is based on the
7 2019 Demand Analysis and ECOS study exhibits sponsored by the
8 Panel in this testimony.

9 **VII. RATE CASE ENHANCEMENTS PROJECT**

10 Q. Please describe the Company's Rate Case Enhancement Project,
11 starting with the Customer Usage System ("CUS"), that is
12 reflected in Exhibit (IT-3) as presented in the testimony of
13 the Information Technology Panel.

14 A. The purpose of CUS is to centralize and summarize data
15 necessary for Rate Engineering to report on or develop various
16 rate structures. CUS is integral to Rate Engineering's
17 overall strategic system replacement plan, which includes the
18 replacement, enhancement, and integration of the functionality
19 of four separate obsolete mainframe systems that we use. Over
20 the last few years, as we have completed and tested new
21 components, a need has arisen for additional functional
22 enhancements to support electric and gas demand analysis, rate
23 design, and rate impact activities and to expand functionality
24 to improve efficiency and decrease the need for manual
25 processes.

1 A number of items are being addressed within the scope of this
2 Rate Case Enhancement project: (1) system requirements
3 associated with anticipated billing changes not included in
4 the original scope (e.g., capacity tag billing, net metering,
5 campus billing, incentive rate designs including
6 considerations regarding state-wide efforts to promote
7 electric vehicles and REV proceeding outcomes); (2) technology
8 and software enhancements including the need for additional
9 fields, derivations, and data mining; (3) further automation
10 related to the creation and storage of load shapes, e.g.,
11 Independent System Operator (ISO) market support activities,
12 enhancements to the existing Load Shape Library,; and (4)
13 additional server purchases and installation costs required to
14 store larger volumes of customer billing and interval data.
15 As Rate Engineering demands continue to evolve, it is critical
16 that we have a flexible system to handle rate case analytic
17 needs as they arise.

18 Q. Please describe the Rate Case Enhancements project.

19 A. The on-going Customer Usage System (CUS) project began because
20 certain legacy systems were coded in software that is now
21 obsolete. The goal is to replace and retire the existing
22 legacy processes to achieve an integrated data warehouse and
23 to automate production of snapshot billing determinant
24 reports, which will eliminate the need to manually query
25 multiple sources on multiple platforms. The CUS project will

1 facilitate a more thorough and timely rate analyses, and CUS
2 will function as a strategic data warehouse for Rate
3 Engineering and other users across the Company. Moreover,
4 without these enhancements, the Company will not be able to
5 meet certain reporting requirements, such as reactive power
6 data, when the legacy systems are retired.

7 Q. What specific enhancement projects are you proposing?

8 A. This enhancement project will serve to integrate and
9 centralize billing determinants and reports used for rate and
10 bill impact analyses, allow for the evaluation of alternative
11 rate designs, and eliminate numerous manual processes
12 currently performed in rate design, bill impact analysis, and
13 demand analysis. In addition, the CUS system will be
14 integrated into the new billing system and we will seek
15 opportunities to further enhance its reporting capabilities.

16 Q. Please discuss the timeline and funding associated with this
17 project.

18 A. This project is budgeted as multi-year capital projects with
19 total expected expenditures of \$6.3 million, and an estimated
20 completion date of 12/31/2026.

21 Q. Is this system solely for electric-related data and analyses?

22 A. No. Please see the testimony of the Gas Rate Panel on this
23 subject.

24 **VIII. MARGINAL COST ANALYSIS**

25 Q. Did you perform an analysis of the marginal cost to supply

1 an additional kW of load on the T&D delivery system?

2 A. No. Given the current uncertainty around the technical aspects
3 of distribution marginal cost estimation, as expressed in the
4 Staff Whitepaper Regarding Future Value Stack Compensation,
5 Including For Avoided Distribution Costs, filed December 12,
6 2018, in Case 15-E-0751 ("Staff Whitepaper") and the ongoing
7 Marginal Cost of Service ("MCOS") Proceeding, Case 19-E-0283,
8 the Company has not developed a new electric marginal cost
9 study for this rate case.

10 Q. Please continue.

11 A. In Case 15-E-0751, the Commission's Order Regarding Value
12 Stack Compensation issued and effective on April 18, 2019
13 tasks the MCOS Proceeding with examining MCOS methodologies
14 employed by utilities in the state. The Order further directs
15 that Value Stack compensation be based, in part, on the last
16 MCOS studies accepted by the Commission until such time that
17 the MCOS Proceeding is complete (page 16). Once the MCOS
18 Proceeding is concluded, the Company will develop a new MCOS
19 study in accordance with the terms of the resultant Commission
20 Order in that case.

21 Q. Does this conclude your testimony?

22 A. Yes.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

TABLE OF CONTENTS

| | | |
|-------|-------------------------------------------------------|----|
| I. | INTRODUCTION | 2 |
| II. | SCOPE OF TESTIMONY | 5 |
| III. | REVENUE ALLOCATION | 7 |
| IV. | RATE DESIGN | 18 |
| V. | HIGH TENSION / LOW TENSION DIFFERENTIALS | 35 |
| VI. | ADJUSTMENT TO SEASONAL RATE DIFFERENTIALS | 39 |
| VII. | REVENUE AND BILL IMPACTS | 41 |
| VIII. | REVENUE DECOUPLING MECHANISM | 46 |
| IX. | BUSINESS INCENTIVE RATE | 48 |
| X. | TARIFF CHANGES AND OTHER RELATED TARIFF MATTERS | 53 |
| XI. | LINE LOSSES | 75 |

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 I. INTRODUCTION

2 Q. Would the members of the Electric Rate Panel (the
3 "Panel") please state their names and business address?

4 A. William Atzl, Ricky Joe, and Sherry Sung, 4 Irving Place,
5 New York, New York 10003.

6 Q. By whom are you employed, in what capacity, and what are
7 your professional backgrounds and qualifications?

8 A. **(Atzl)** We are employees of Consolidated Edison Company of
9 New York, Inc. ("Con Edison" or the "Company"). I am
10 Director of the Rate Engineering Department. My
11 background is as follows: In 1983, I graduated from the
12 State University of New York at Stony Brook with a
13 Bachelor of Engineering degree in Mechanical Engineering.
14 In 1989, I graduated from Pace University, White Plains,
15 New York with a Master of Business Administration degree
16 in Management Information Systems. I am a Licensed
17 Professional Engineer in the State of New York. My first
18 job was with Long Island Lighting Company in 1983 where I
19 held the position of Assistant Engineer in the New
20 Business Department. In 1984, I joined Orange and
21 Rockland Utilities, Inc. ("O&R") as a Commercial and
22 Industrial Representative in the Commercial Operations

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Department. At O&R, I also held the positions of
2 Commercial and Industrial Engineer, Program Administrator
3 - Demand-Side Management, Manager - Demand-Side
4 Management Operations, Manager - Energy Services and
5 Pricing, and Manager - Regulatory Affairs. In October
6 1999, I joined Con Edison and held the position of
7 Department Manager - Electric and Gas Rate Design - O&R
8 and Director prior to my present position. I have
9 testified in numerous regulatory proceedings before the
10 New York State Public Service Commission ("Commission"),
11 New Jersey Board of Public Utilities ("NJBPU") and
12 Pennsylvania Public Utility Commission ("PAPUC").
13 **(Joe)** I am a Department Manager in the Rate Engineering
14 Department. In 1993, I graduated from Rutgers College
15 with a Bachelor of Arts degree in Economics. In 2001, I
16 graduated from the Rutgers Graduate School of Management,
17 with a Master's degree in Business Administration in
18 Finance. I joined Con Edison in 2004 as a Senior Analyst
19 in the Rate Engineering Department and worked in
20 positions of increasing responsibility through 2012. In
21 those positions, I worked on rate-related matters for
22 O&R, including its regulated utility subsidiaries, as

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 well as for Con Edison. In 2012, I moved to a position
2 working on Con Edison electric and steam rate matters and
3 gained more responsibilities with the promotion to my
4 current position. Prior to joining Con Edison, I was
5 employed by the NJBPU from 1993 to 2000,
6 PricewaterhouseCoopers from 2000 to 2003, and Amerada
7 Hess Corporation from 2003 to 2004. I have testified
8 before the Commission, the NJBPU and the PAPUC.

9 **(Sung)** I hold the position of Senior Rate Analyst in the
10 Rate Engineering Department. In 2001, I graduated from
11 Pace University with a Bachelor of Business
12 Administration Degree in Management Science and minors in
13 Mathematics and Finance. I joined Con Edison in 2017 and
14 am responsible for revenue allocation and rate design for
15 the Company's electric customers. Prior to joining Con
16 Edison, I was employed by National Grid. I joined
17 National Grid (formerly KeySpan Energy) as an intern in
18 1999 in the Strategic Planning Department. Upon
19 graduation, I moved to a position in the Gas Marketing
20 Department and subsequently held positions of increasing
21 responsibilities in the Regulatory and Pricing Department

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 and the Gas Finance Department. I have testified before
2 the Commission.

3

4

II. SCOPE OF TESTIMONY

5 Q. What is the scope of your direct testimony in this
6 proceeding?

7 A. Our testimony:

- 8 (1) presents the Company's proposal for revenue
9 allocation and rate design;
- 10 (2) discusses the relationship between high tension and
11 low tension rates in certain demand billed service
12 classifications ("SCs");
- 13 (3) summarizes the adjustment to seasonal rate
14 differentials for certain classes;
- 15 (4) presents revenue and bill impacts showing the total
16 bill effect of the proposed delivery rate changes on
17 customers' bills and Company revenues, including
18 three years of bill projections for selected
19 customer usage levels in major classes that not only
20 show the effects of the proposed delivery rate
21 increase, but those of expected changes in certain
22 other charges, such as changes in supply costs;

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 (5) proposes changes to the revenue decoupling mechanism
2 ("RDM");

3 (6) proposes to extend the applicability of the Business
4 Incentive Rate ("BIR") and establish a new program
5 offering to provide temporary relief for small
6 business customers impacted by the COVID-19
7 pandemic;

8 (7) describes proposed changes to the Company's Schedule
9 for Electricity Service, P. S. C. No. 10 -
10 Electricity ("Electric Tariff") and Schedule for
11 PASNY Delivery Service P. S. C. No. 12 - Electricity
12 ("PASNY Tariff") and other related tariff matters;
13 and

14 (8) updates the system losses assessed on supply costs
15 for full service customers.

16 Q. Is the Panel sponsoring any exhibits?

17 A. Yes, we are sponsoring two exhibits:

18 • Exhibit ___ (ERP-1) High Tension / Low Tension Rate
19 Differentials, Schedules 1-5; and

20 • Exhibit ___ (ERP-2) - Rate Design, Schedules 1-9.

21

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 III. REVENUE ALLOCATION

2 Q. Did the Accounting Panel supply you with the increased
3 delivery revenue requirement for the twelve-month period
4 ending December 31, 2023 (the "Rate Year")?

5 A. Yes, the increased delivery revenue requirement for the
6 Rate Year amounts to \$1,198.8 million, including \$37.1
7 million related to gross receipts taxes ("GRT"), which
8 means the net increased delivery revenue requirement is
9 \$1,161.7 million. For purposes of this testimony,
10 "delivery revenue" will mean amounts associated with
11 total delivery, including competitive and non-competitive
12 amounts, as well as certain items related to the
13 Company's Monthly Adjustment Clause ("MAC"). References
14 to transmission and distribution delivery revenue ("T&D
15 delivery revenue") mean delivery amounts excluding the
16 MAC items.

17 Q. Please describe the components of the \$1,161.7 million
18 net increased delivery revenue requirement.

19 A. The total net increased delivery revenue requirement of
20 \$1,161.7 million reflects: (1) a \$1,109.3 million
21 increase in T&D delivery revenues, (2) a \$8.7 million
22 increase in the retained generation component of the MAC,

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 (3) a \$2.3 million increase in purchased power working
2 capital, and (4) a \$41.4 million increase associated with
3 energy efficiency costs proposed by the Accounting Panel
4 and Customer Energy Solutions ("CES") Panel and as
5 discussed further below.

6 Q. Please explain the classes to which these components are
7 allocable.

8 A. The T&D delivery revenue increase is allocated to
9 customers taking service under the Electric Tariff ("Con
10 Edison Customers") and to the New York Power Authority
11 ("NYPA" or "PASNY"). The increase in the retained
12 generation component of the MAC is allocated to Con
13 Edison full service and retail access customers. The
14 increase in purchased power working capital is allocated
15 to Con Edison full service customers. The energy
16 efficiency costs included in the revenue requirement are
17 allocated to Con Edison full service and retail access
18 customers.

19 Q. Did you make any adjustments to reflect the projected
20 increase in low income program funding?

21 A. Yes. Prior to allocating the \$1,109.3 million increase
22 in T&D delivery revenues, we increased it by \$49.1

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 million to offset the projected \$49.1 million increase in
2 credits to be issued under the Company's Low-income
3 Program as discussed by the Company's Customer Operations
4 Panel. This results in the adjusted increase in T&D
5 delivery revenues of \$1,158.4 million.

6 Q. Please provide an overview of how you allocated the
7 Company's T&D delivery revenue increase among Con Edison
8 customers and NYPA.

9 A. We performed the following steps in allocating the T&D
10 delivery revenue increase:

- 11 o Based on the rates that became effective January
12 1, 2022 ("Current Rates"), we established the
13 revenue for the rate year ("Current Revenue
14 Level").
- 15 o Con Edison and NYPA Rate Year T&D delivery
16 revenues at the Current Revenue Level were
17 realigned based on Table 1A of the Company's 2019
18 Embedded Cost of Service ("ECOS") study, which is
19 Exhibit __ (DAC-2) - Schedule 1 in the Electric
20 Demand Analysis and Cost of Service ("DAC") Panel
21 testimony. To mitigate bill impacts for
22 deficient classes, we propose to realign revenues

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 in the Rate Year based on one third of the
2 revenue adjustments shown on Table 1A. Our
3 intent is to further realign revenues based on
4 the remaining two thirds of the revenue
5 adjustments shown on Table 1A in subsequent
6 years.

7 o As discussed above, the \$1,161.7 million net Rate
8 Year delivery revenue increase includes certain
9 components that are allocated in different ways.
10 Therefore, the \$1,161.7 million net Rate Year
11 delivery revenue increase was adjusted, for
12 revenue allocation purposes, to exclude the: (1)
13 \$8.7 million increase in the retained generation
14 component of the MAC, (2) \$2.3 million increase
15 in purchased power working capital, and (3) \$41.4
16 million increase associated with the energy
17 efficiency costs. In addition, we increased the
18 Rate Year T&D delivery revenue increase by \$49.1
19 million to reflect the increase in low income
20 program funding. This results in a net decrease
21 adjustment of \$3.3 million (i.e., \$49.1 million,
22 less the sum of \$8.7 million, \$2.3 million and

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 \$41.4 million), which was then subtracted from
2 the \$1,161.7 million for an adjusted proposed T&D
3 delivery revenue increase of \$1,158.4 million,
4 which was allocated to Con Edison customers and
5 NYPA in proportion to their respective realigned
6 Rate Year T&D delivery revenues. The \$41.4
7 million in incremental energy efficiency costs
8 was allocated to the Con Edison full service and
9 retail access customer classes based on kWh sales
10 in each class. We are proposing to continue the
11 bill credit for Recharge New York ("RNY")
12 customers to permit them to continue to receive
13 an exemption from cost recovery associated with
14 energy efficiency programs equivalent to the
15 benefit of their exemption from energy efficiency
16 costs that would have been recovered through the
17 System Benefits Charge ("SBC"). The RNY credit
18 is being increased to reflect incremental energy
19 efficiency costs. An adjustment was made to
20 increase the energy efficiency costs allocated to
21 Con Edison customers by the projected amount of
22 the RNY credit.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 o The revenue adjustments we propose based on Table
2 1A of the 2019 ECOS study for the Con Edison
3 classes and NYPA were added to the T&D delivery
4 revenue increase and energy efficiency costs
5 allocated to each class to determine the total
6 T&D delivery revenue change applicable to each
7 class.
- 8 o The total Rate Year T&D delivery revenue change
9 for each class was allocated among non-
10 competitive T&D delivery revenues, competitive
11 service revenues, reactive power demand charge
12 revenues and customer charge revenues.
- 13 o The portion of the T&D delivery revenue change
14 assigned to competitive service revenues is
15 determined by taking the difference between the
16 competitive service revenues at the proposed
17 rates, designed in accordance with the
18 Commission's Statement of Policy on Unbundling
19 and Order Directing Tariff Filings, issued August
20 25, 2004, in Case 00-M-0504 ("Unbundling Policy
21 Statement"), and the competitive service revenues
22 at Current Rates.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 o The portion of the T&D delivery revenue change
2 associated with the change in reactive power
3 demand charge revenue is determined for demand-
4 billed customers as described below.
- 5 o Customer charges for the following classes: SCs 1
6 (excluding Rates II and III), 2, and 6; the
7 voluntary TOD classes for SCs 5, 8, 9, and 12;
8 and the mandatory TOD classes for SCs 8, 9, 12,
9 and 13 were increased to better reflect the
10 Company's cost to provide service as further
11 discussed in the Rate Design section of this
12 testimony. The customer charges for SC 1 Rates
13 II and III were set consistent with the SC 1 Rate
14 I level. The total Rate Year T&D delivery
15 revenue change for each class was adjusted to
16 exclude the changes in competitive service
17 revenues and reactive power demand charge
18 revenues to determine the class-specific non-
19 competitive T&D delivery revenue changes. The
20 non-competitive T&D delivery revenue changes were
21 then adjusted to exclude the changes in customer
22 charge revenues to determine Adjusted Non-

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 competitive T&D Delivery Revenue changes for the
2 Rate Year.

3 o The Adjusted Non-competitive T&D Delivery Revenue
4 changes for the Rate Year were restated as class-
5 specific Adjusted Non-competitive T&D Delivery
6 Revenue changes for the 12 months ended December
7 31, 2019 ("Historic Period") for purposes of
8 designing the proposed non-competitive T&D
9 delivery rates, other than customer charges. The
10 Historic Period is the period for which detailed
11 billing data are available.

12 Q. Please describe how you developed the Adjusted Non-
13 competitive T&D Delivery Revenue changes applicable to
14 the Con Edison classes for the Historic Period.

15 A. Revenue ratios were developed for each class by dividing
16 the Rate Year Adjusted Non-competitive T&D Delivery
17 Revenues for each class by the Historic Period Adjusted
18 Non-competitive T&D Delivery Revenues for each class at
19 the Current Revenue Level. The revenue ratio for each
20 class was applied to the Rate Year Adjusted Non-
21 competitive T&D Delivery Revenue change for each class to

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 determine each class's Adjusted Non-competitive T&D
2 Delivery Revenue change for the Historic Period.

3 Q. Please explain the components of competitive service
4 revenue and how you developed the change in competitive
5 service revenue applicable to the Con Edison classes.

6 A. Competitive service revenues are comprised of revenues
7 associated with: (a) the supply-related component of the
8 Merchant Function Charge ("MFC"), including the purchased
9 power working capital component; (b) the credit and
10 collection ("C&C") related component of the MFC; and (c)
11 the billing and payment processing ("BPP") charge. The
12 changes in competitive service revenues by class were
13 developed by computing the difference between the
14 competitive service revenues at the proposed rates, as
15 described in the Rate Design section below, and the
16 competitive service revenues at Current Rates.

17 Q. Please describe how you determined the change in the
18 reactive power demand charge revenues.

19 A. The revenues associated with the change in reactive power
20 demand charges were determined based on the difference
21 between the current reactive power demand charge, i.e.,
22 \$2.14 per kVar of billable reactive power demand, and the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 proposed charge to reflect updated costs, i.e., \$2.38 per
2 kVar. The difference was applied to the Rate Year kVar
3 usage amounts to determine the change in reactive power
4 demand charge revenues.

5 Q. Please describe how you determined the changes in
6 customer charge revenues.

7 A. The changes in customer charge revenues were determined
8 by computing the differences in customer charge revenues
9 between current and proposed customer charges. This was
10 done for the following: SCs 1, 2, and 6; the voluntary
11 TOD classes for SCs 5, 8, 9, and 12; and the mandatory
12 TOD classes for SCs 8, 9, 12, and 13.

13 Q. Please describe NYPA's share of the T&D delivery revenue
14 increase.

15 A. NYPA's share of the T&D delivery revenue increase,
16 excluding GRT, was determined to be \$130.0 million. This
17 amount was increased by one third of the total ECOS study
18 deficiency of \$20.5 million from Table 1A of Exhibit ___
19 (DAC-2), to yield a total T&D delivery revenue increase
20 to NYPA of \$136.8 million for the Rate Year.

21 Q. Why did you address only one third of the NYPA deficiency
22 of \$20.5 million?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 A. As we stated in our discussion regarding the Con Edison
2 classes, we propose to realign revenues in the Rate Year
3 for the Con Edison classes based on one third of the
4 revenue adjustments to mitigate the customer impacts of
5 this change. To be consistent in our treatment of all
6 customer classes, including NYPA, we propose to apply one
7 third of the revenue adjustment applicable to NYPA as
8 well. Our intent is to adjust NYPA revenues based on the
9 remaining two thirds of the NYPA deficiency in subsequent
10 years.

11 Q. Please describe how you restated the Rate Year T&D
12 delivery revenue change applicable to NYPA for the
13 Historic Period.

14 A. Revenue ratios were developed by dividing the applicable
15 Rate Year NYPA T&D delivery revenues by the Historic
16 Period NYPA T&D delivery revenues at the Current Revenue
17 Level. The revenue ratios were applied to the Rate Year
18 NYPA total T&D delivery revenue change to derive the NYPA
19 total T&D delivery revenue change for the Historic
20 Period.

21

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 IV. RATE DESIGN

2 Q. Please explain how you designed the proposed T&D delivery
3 rates for Con Edison SCs.

4 A. The rate design process for the Con Edison SCs consisted
5 of the following steps:

6 1. Determine rates for competitive services in accordance
7 with the Commission's Unbundling Policy Statement;

8 2. Eliminate incremental meter charges for SC 1 voluntary
9 TOD (under Rates II and III) and SC 2 TOD rates (i.e.,
10 Rate II), as no incremental meter charge is

11 appropriate under Advanced Metering Infrastructure
12 ("AMI"); and

13 3. Revise customer charges for SCs 1, 2 and 6 including
14 voluntary TOD rates, and TOD classes for SCs 5, 8, 9,
15 12, and 13, to better reflect the Company's cost to
16 provide service;

17 4. Design non-competitive delivery rates to recover the
18 Adjusted Non-competitive T&D Delivery Revenue change
19 assigned to each class.

20 Q. Please describe the first step of the rate design
21 process.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 A. The first step is to develop the rates for competitive
2 services, i.e., the supply-related and C&C components of
3 the MFC, and the BPP charge.

4 Q. Please describe the MFC.

5 A. The MFC consists of two components: a supply-related
6 component, including a purchased power working capital
7 component, and a C&C related component. Separate MFCs
8 were calculated for (1) SC 1 customers, (2) SC 2
9 customers, and (3) all other customers.

10 Q. Please describe how you designed the MFC.

11 A. As shown in Exhibit __ (DAC-2) - Schedule 2, Page 1, the
12 costs associated with the supply-related component are:
13 (1) 0.17512 percent of total Con Edison T&D delivery
14 revenues at Current Rates for SC 1 customers,
15 (2) 0.02486 percent of total Con Edison T&D delivery
16 revenues at Current Rates for SC 2 customers, and
17 (3) 0.05716 percent of total Con Edison T&D delivery
18 revenues at Current Rates for all other Con Edison
19 customers.

20 To determine the Rate Year revenue requirement associated
21 with these costs for each SC group, the respective
22 percentages were applied to the total Con Edison Rate

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Year T&D delivery revenue requirement at the proposed
2 rate level. The resulting Rate Year revenue requirement
3 for the supply-related portion of the MFC for each SC
4 group was then divided by the Rate Year sales of full
5 service customers for SC 1, SC 2, and other Con Edison
6 classes, respectively, to determine the \$/kWh supply-
7 related component of the MFC for each SC group.

8 Q. Have you recognized in the computation of the supply-
9 related MFC rate component an allowance for working
10 capital on purchased power?

11 A. Yes. In accordance with the Unbundling Policy
12 Statement, we reflected in rates an allowance for working
13 capital on purchased power. Specifically, the Accounting
14 Panel provided us with a purchased power working capital
15 allowance of \$10.028 million, excluding GRT. The
16 proposed rate associated with purchased power working
17 capital has been computed by dividing the purchased power
18 working capital amount of \$10.028 million by Rate Year
19 full service customers' sales to derive a 0.0450 cent
20 per-kWh charge that was added to the applicable supply-
21 related MFC component for each SC group.

22 Q. Please continue.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 A. As shown on Exhibit __ (DAC-2) - Schedule 2, Page 2, the
2 total costs associated with the C&C-related component of
3 the MFC are 0.54418 percent of total Con Edison T&D
4 delivery revenues at Current Rates. To determine the
5 total Rate Year C&C-related revenue requirement, this
6 percentage was applied to the total Con Edison Rate Year
7 T&D delivery revenue requirement at the proposed level.
8 The total Rate Year C&C-related revenue requirement was
9 then split between full service and Purchase of
10 Receivable ("POR") customers based on the respective
11 split of full service and POR forecasted Rate Year kWh
12 sales. The portion of the C&C-related Rate Year revenue
13 requirement to be recovered from full service customers
14 through separate MFC rate components was further
15 allocated among: (1) SC 1 customers, (2) SC 2 customers,
16 and (3) all other customers based on the breakdown of
17 relative class percentages for full service customers'
18 portion of C&C costs as shown on Exhibit __ (DAC-2) -
19 Schedule 2, Page 2. The resulting Rate Year revenue
20 requirements for the C&C-related portion of the MFC for
21 each SC group were then divided by the respective Rate
22 Year sales for full service customers to determine the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 \$/kWh C&C-related component of the MFC. The residual
2 Rate Year C&C-related revenue requirement will be
3 recovered through a percentage adder to the POR discount
4 rate.

5 Q. Do you propose to revise the BPP charge?

6 A. No. As noted in the DAC Panel testimony, the 2019
7 unbundled cost for electric billing and payment
8 processing is \$1.21 per bill, i.e., the sum of the \$0.73
9 per bill cost for printing and mailing and the \$0.48 per
10 bill cost for payment processing. This 2019 cost was
11 inflated to the current level by using the Gross Domestic
12 Product Implicit Price Deflator index. The resulting
13 adjusted billing and payment processing cost of \$1.27 is
14 extremely close to the current BPP charge, therefore, the
15 Company proposes to keep the BPP at the current level.

16 Q. Please describe the second step in the rate design
17 process.

18 A. The second step is the development of customer charges.
19 Con Edison's residential customer charges are currently
20 lower than customer costs indicated in the ECOS study and
21 among the lowest in New York State as shown in the table
22 below ("TOD" means time of day rates).

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1

Residential Customer Charges in NY

| Company | Non-TOD | TOD |
|------------------------------|--------------|--------------|
| RG&E (effective 5/1/2022) | 22.00 | 26.10 |
| Central Hudson (eff.12/2021) | 19.50 | 22.50 |
| O&R (current) | 19.50 | 32.00 |
| O&R (pending) | 20.50 | 32.00 |
| National Grid (current) | 17.00 | 30.00 |
| National Grid (pending) | 17.33 | 30.62 |
| Con Edison (proposed) | 20.00 | 20.00 |
| Con Edison (current) | 17.00 | 21.46 |
| NYSEG (effective 5/1/2022) | 17.00 | 19.60 |

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Customer charges for SCs 1 (excluding Rates II and III), 2, 6, and the non-standby classes within SCs 5, 8, 9, 12 and 13 were increased to move customer charges closer to the customer costs indicated in the ECOS study. The customer charges applicable to voluntary TOD rates for SC 1 (Rates II and III) and SC 2 (Rate II) have been set equal to the proposed customer charges of Rate I for SCs 1 and 2, respectively. In the past, the customer charges applicable to voluntary TOD rates were greater than the customer charges for non-TOD rates due to an incremental metering charge to recover the incremental cost associated with a TOD meter. With AMI metering, which the Company will have essentially fully deployed by the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 end of the Rate Year, there is no difference in metering
2 costs between TOD and non-TOD customers, and metering-
3 related differentials in TOD and non-TOD customer charges
4 are no longer necessary.

5 Lastly, the meter charge applicable to SC 1 Special
6 Provision D (applicable to SC 1 customers taking service
7 under a separate account billed under SC 1 Rate II for
8 the sole purpose of heating water off peak and storing
9 it) was eliminated since the incremental meter charge is
10 not appropriate under AMI. The current Electric Rate
11 Plan closed this Special Provision to new applicants, and
12 the one remaining customer is grandfathered through
13 December 31, 2023, after which this customer would be
14 assessed standard SC 1 rates.

15 Q. Please describe the third step of the rate design
16 process.

17 A. The third step is the design of the non-competitive
18 charges for the Con Edison SCs to collect the Adjusted
19 Non-competitive T&D Delivery Revenue change. We applied
20 the following guidelines in designing the proposed rates:

- 21 • As explained in the Revenue Allocation section of
22 this testimony, after accounting for the changes in

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 the SC 1 Residential and Religious (Rate I), SC 2
2 General Small (Rate I) and SC 6 Public and Private
3 Street Lighting customer charges, the per-kWh
4 charges for these classes were designed to recover
5 the balance of the residual revenue requirements
6 assigned to each respective class.

7 • Consistent with past practice, VTOD rates for SCs 1
8 (Rates II, III and IV) and 2 (Rate II) were designed
9 to recover each class's overall T&D delivery revenue
10 requirement. The rates were designed to be revenue
11 neutral, i.e., the rates were designed to yield the
12 same level of class revenues that the Company would
13 receive under the proposed conventional rates.

14 • For SC 12 customers billed for energy only, the
15 minimum charge and the per-kWh charges were
16 increased by the Adjusted Non-competitive T&D
17 Delivery Revenue change applicable to the SC 12
18 (Rate I) customer class.

19 • As described in the section of this testimony on
20 Tariff Changes and Other Related Tariff Matters, the
21 Company is proposing Special Provision E in SC 12 to
22 establish specific rules for customer transfers

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 between demand rates and energy-only rates in Rates
2 I and III. This proposal creates a net revenue
3 deficiency of approximately \$144,700, which we
4 propose to offset by increases in Rate I demand and
5 energy-only rates in proportion to the annual
6 revenues derived from those rates.

7 • For Rate I of SCs 5, 8, 9 and 12, prior to applying
8 the revenue increase, 5 percent of the usage revenue
9 (i.e., revenue from per-kWh charges) was shifted
10 into demand revenue on a revenue neutral basis.
11 Then, the Adjusted Non-competitive T&D Delivery
12 Revenue changes were applied entirely to the demand
13 charges, including minimum charges. Since the
14 majority of transmission and distribution costs are
15 fixed or demand-related, shifting a portion of usage
16 revenue to demand revenue and applying the revenue
17 increase to demand charges more closely aligns how
18 costs are incurred and collected from customers.
19 The usage charges for these classes will remain at
20 their redesigned current levels (i.e., resulting
21 from the shift of 5 percent of usage revenues to
22 demand revenues on a revenue neutral basis). This

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 results in a higher percentage of revenue for these
2 classes being recovered through fixed and demand-
3 related charges.
- 4 • For demand-billed classes, high tension/low tension
5 differentials have been adjusted to assess the high
6 tension/low tension unit cost relationships based on
7 the ECOS study. These adjustments are explained in
8 the Adjustments to High Tension and Low Tension Rate
9 Differentials section of this testimony.
 - 10 • As explained in the Adjustment to Seasonal Rate
11 Differentials section of this testimony, adjustments
12 have been applied to address differences between the
13 ratios of the summer and winter revenue and the
14 summer and winter costs. Adjustments were made to
15 the TOD classes of SCs 8 and 9.
 - 16 • The mandatory TOD rates for SCs 5, 8, 9, 12, and 13
17 and VTOD rates for SCs 8, 9, and 12 were designed to
18 collect the increased T&D delivery revenue
19 requirement applicable to these classes. The
20 Adjusted Non-competitive T&D Delivery Revenue
21 changes for these classes were applied entirely to
22 demand rates to better reflect the nature of

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 transmission and distribution costs. In keeping
2 with past practice, the per-kWh rates remain equal
3 across these classes. Since we are applying the
4 Adjusted Non-competitive T&D Delivery Revenue change
5 entirely to demand charges, the per-kWh rates will
6 remain at the current levels. VTOD rates were
7 designed to recover the class revenue requirement of
8 all customers not billed under mandatory TOD rates.

- 9 • As discussed in the Revenue Allocation section of
10 this testimony, the reactive power demand charge,
11 including the charge for induction-generation
12 equipment, was increased to reflect updated costs.
- 13 • Rates for the Company's Innovative Pricing Pilot
14 ("IPP") under Rider Z and Rider AA, applicable to SC
15 1 and SC 2 customers, respectively, were calculated
16 using the methodology approved by the Commission in
17 its Order Approving Tariff Amendments with
18 Modifications, issued December 13, 2018, in Case 18-
19 E-0397. However, where this methodology resulted in
20 IPP percentage rate changes greater than 1.2 times
21 the percentage rate changes for SC 1 Rate I or SC 2
22 Rate I, as applicable, we limited the increases to

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 1.2 times the percentage rate changes for SC 1 Rate
2 I or SC 2 Rate I. Customer charges under Riders Z
3 and AA were increased to the levels proposed for SC
4 1 and SC 2 Rate I customer charges, respectively.

- 5 • Rates for the Company's Smart Home Rate ("SHR")
6 Demonstration Project under Rider AB Rate I, which
7 is applicable to SC 1 customers, were calculated
8 using the methodology approved by the Commission in
9 its Order Approving Tariff Amendments with
10 Modifications, issued February 7, 2019, in Case 18-
11 E-0549. The customer charge under Rider AB Rate I
12 was increased to the level proposed for SC 1 Rate I.
13 The Company did not update Rider AB Rate II rates
14 since the Company had proposed to eliminate this
15 rate in its October 22, 2021 filing in Case 21-E-
16 0534, to become effective on March 1, 2022. In the
17 event the Commission rejects the Company's proposal,
18 the Company will update Rider AB Rate II rates.
- 19 • Demand rates for the Company's Optional Demand-Based
20 rate applicable to SC 1 Rate IV customers, were
21 increased using the same methodology used for Rider
22 Z rates. Similar to the IPP rate design, percentage

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 rate changes greater than 1.2 times the percentage
2 rate changes for SC 1 Rate I were limited to 1.2
3 times the percentage rate changes for SC 1 Rate I.
4 The customer charge under SC 1 Rate IV was set based
5 on the embedded customer cost level excluding BPP in
6 the 2019 ECOS Study.

7 • The customer charges and distribution contract
8 demand charges in SC 11 - Buy-Back Service - were
9 set equal to the customer charges and contract
10 demand charges in Rate III and IV of SC 5, Rate IV
11 and Rate V of SCs 8, 9, and 12, and Rate II of SC
12 13.

13 Q. How were standby rates developed?

14 A. Standby rates applicable under Rate III and Rate IV of SC
15 5, and Rate IV and Rate V of SCs 8, 9, and 12, were
16 developed consistent with the Commission's Opinion No.
17 01-04, Opinion and Order Approving Guidelines for the
18 Design of Standby Service Rates, issued and effective
19 October 26, 2001 in Case 99-E-1470 ("Standby Rates
20 Order"). The Commission stated "the standby rates for
21 each service classification should produce the same
22 revenues as the standard rates, using the class billing

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 determinants (Standby Rates Order, Appendix A, p. 2).
2 The Standby Rates Order (p. 7) says that revenue neutral
3 means "the full service class (not any individual
4 customer) would contribute the same revenues if the full
5 class was priced under either the standard service class
6 rates or the standby rates (given the historic usage
7 patterns of the customers in that class)." Standby rates
8 for SC 13 (Rate II) were developed by increasing the
9 current rates by the non-competitive T&D delivery revenue
10 percentage increase applicable to SC 13 Rate I.

11 Q. How were standby rates under Rider Q developed?

12 A. Standby as-used daily demand delivery charges for each SC
13 under Option B of Rider Q - Standby Rate Pilot were
14 developed to be revenue neutral to the class rates for
15 the otherwise applicable Standby Service class. However,
16 Rider Q Option B as-used daily demand delivery charges
17 applicable to summer months were calculated to reduce
18 Period 1 (i.e., weekdays 8 AM to 6 PM) hours to four-hour
19 periods based on event call windows under the Company's
20 Commercial System Relief Program. Additionally, revenue
21 was shifted from the as-used daily demand delivery
22 charges applicable to the summer Period 2 (i.e., weekdays

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 8 AM to 10 PM) to the Period 1 as-used daily demand
2 delivery charges. This is consistent with the
3 methodology used to set current Rider Q Option B rates as
4 approved by the Commission in its Order Approving Tariff
5 Amendments with Modifications, issued January 19, 2018,
6 in Case 16-E-0060.

7 Q. Did you propose any changes to standby rates related to
8 the filing made by the Company on September 23, 2019, in
9 compliance with the Commission's Order on Standby and
10 Buyback Service Rate Design and Establishing Optional
11 Demand-Based Rates, issued May 16, 2019, in Case No. 15-
12 E-0751 ("May 2019 Standby Order")?

13 A. No. In that compliance filing, the Company proposed an
14 allocated cost of service study and introduced Standby
15 Service rate options for SC Nos. 1 and 2. Given that
16 this filing is still pending with the Commission, the
17 Company has used the existing methodology previously
18 described to determine the proposed Standby Service rates
19 and proposes no changes to the existing Standby Service
20 rate structure and available rate options. Should the
21 Commission approve the Company's filing or require
22 changes to the proposed filing during this proceeding,

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 the Company will revise its proposed Standby Service
2 rates accordingly.

3 Q. Please discuss how you designed the proposed delivery
4 rates for NYPA.

5 A. The facilities charge applicable to New York City street
6 lights was increased to better reflect costs of
7 facilities specifically associated with service to street
8 lights. All other Rate I and Rate II charges under the
9 PASNY Tariff were increased by the total T&D delivery
10 revenue percentage increase applicable to NYPA. High
11 tension/low tension differentials were reviewed to assess
12 the high tension/low tension unit cost relationships
13 based on the ECOS study. These adjustments are explained
14 in the Adjustments to High Tension and Low Tension Rate
15 Differentials section of this testimony. Consistent with
16 the standby rate guidelines in the Standby Rates Order,
17 Rate III and IV rates were developed for each class
18 within the PASNY Tariff to be revenue neutral at the
19 proposed revenue level, i.e., Rates III and IV were
20 developed to produce the same delivery revenues as the
21 equivalent non-standby rates.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Q. Have you updated the rate reductions for the Excelsior
2 Jobs Program ("EJP")(SC 9 Special Provision H)?

3 A. Not at this time. The EJP rate reductions are normally
4 set based on marginal costs. However, as explained in
5 the DAC Panel testimony, given the current uncertainty
6 around the technical aspects of distribution marginal
7 cost estimation, as expressed in the Staff Whitepaper
8 Regarding Future Value Stack Compensation, Including For
9 Avoided Distribution Costs, filed December 12, 2018, in
10 Case 15-E-0751 ("Staff Whitepaper") and the ongoing
11 Marginal Cost of Service ("MCOS") Proceeding, Case 19-E-
12 0283, the Company has not developed a new electric
13 marginal cost study for this rate case. Therefore, we
14 propose to maintain EJP rate reductions at their current
15 level.

16 Q. Have you verified that the proposed rates for the Con
17 Edison classes and NYPA will produce the revenue increase
18 proposed by the Accounting Panel when those rates are
19 applied to projected Rate Year sales?

20 A. We have provided the Electric Forecasting Panel with the
21 proposed rates, and they verified the amounts.

22

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 V. HIGH TENSION / LOW TENSION DIFFERENTIALS

2 Q. What is the high tension/low tension differential?

3 A. This differential refers to the difference between \$/kW
4 annualized high tension and low tension demand rates for
5 demand-billed classes, including NYPA.

6 Q. Did you make any adjustments to the high tension/low
7 tension differential for demand-billed classes?

8 A. Yes. The demand rates in Rates I and II of SC 5, and
9 NYPA Rate I were adjusted to better reflect the
10 relationship between unit costs for high tension and low
11 tension services.

12 Q. How was this determination made?

13 A. The review of high tension and low tension differentials
14 involves a three-step process.

15 The first step determines the relationships between high
16 tension and low tension unit costs for each class based
17 on the 2019 ECOS study.

18 The high tension unit cost was determined by dividing the
19 sum of the required revenue for cost components
20 applicable to both high tension and low tension customers
21 by the total billed demands for high tension and low
22 tension service.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 The high tension/low tension unit cost differential was
2 determined by dividing the sum of the required revenue
3 for cost components applicable only to low tension
4 customers by the total billed demands for low tension
5 service.

6 The low tension unit cost was determined by adding the
7 high tension unit cost and the high tension/low tension
8 unit cost differential. Finally, we divided the high
9 tension unit cost by the low tension unit cost to
10 determine the high tension/low tension ratio, which
11 allows us to compare high tension/low tension
12 differentials among classes on a common basis.

13 The high tension unit costs, low tension unit costs, high
14 tension/low tension \$/kW unit cost differentials and high
15 tension/low tension ratios are shown on Exhibit __ (ERP-
16 1), Schedule 1.

17 Q. Please describe the second step in the process.

18 A. The second step in the process determines the high
19 tension/low tension rate differentials and high
20 tension/low tension ratios by class reflected in Current
21 Rates. See Exhibit __ (ERP-1), Schedule 2.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 The Current Rates are adjusted to reflect the shift of 5
2 percent of usage revenue to demand revenue on a revenue
3 neutral basis that we described earlier for Rate I of SCs
4 5, 8, 9 and 12. The redesigned demand rates are shown in
5 Exhibit __ (ERP-1), Schedule 3.

6 We determine annualized demand rates based on a weighted
7 average of summer and winter rates. This calculation was
8 performed for each rate block, and for the minimum
9 charges that include a minimum number of kW, the rate was
10 unitized to a per-kW rate by dividing it by the
11 corresponding kW associated with the minimum charge. The
12 high tension/low tension rate differential was determined
13 by subtracting the annualized high tension rate from the
14 annualized low tension rate. The high tension/low
15 tension ratio was determined by dividing the annualized
16 high tension rate by the annualized low tension rate.

17 See Exhibit __ (ERP-1), Schedule 4.

18 Q. Please describe the third step in the process.

19 A. The third step in the process compared, for each class,
20 high tension/low tension ratios based on costs, derived
21 in step one, to high tension/low tension ratios reflected
22 in Current Rates, derived in step two. The differences

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 between high tension/low tension ratios based on costs
2 and high tension/low tension ratios reflected in Current
3 Rates indicate that subsidies may exist and should be
4 addressed to limit further subsidies. These ratios were
5 compared by subtracting high tension/low tension ratios
6 based on costs from the high tension/low tension ratios
7 reflected in Current Rates. To the extent that the
8 absolute value of the difference in ratios exceeded five
9 percentage points for a particular rate class, that class
10 would be selected for adjustment. This same approach was
11 approved by the Commission in Case 19-E-0065. See
12 Exhibit ___ (ERP-1), Schedule 5. Rates in selected
13 classes would be adjusted by redistributing the revenues
14 between the high and low tension services on a revenue
15 neutral basis.

16 Q. How do you propose to adjust the demand rates for SC 5
17 and NYPA?

18 A. To limit the bill impacts of these adjustments, we are
19 proposing to eliminate only one third of the difference
20 between ratios.

21

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 VI. ADJUSTMENT TO SEASONAL RATE DIFFERENTIALS

2 Q. Are you proposing any adjustments to seasonal rate
3 differentials?

4 A. Yes. We are proposing adjustments in certain service
5 classes to summer - winter revenue differentials to
6 adjust the seasonal delivery revenue ratio to begin to
7 gradually approach the seasonal delivery cost ratio.

8 Q. How are the seasonal delivery revenue ratios and seasonal
9 delivery cost ratios determined?

10 A. These ratios are explained in the testimony of the DAC
11 Panel.

12 Q. Which service classes were selected for adjustment?

13 A. As recommended by the DAC Panel, SC 8 TOD and SC 9 TOD
14 are the greatest outliers with respect to the differences
15 between their seasonal delivery revenue ratios and
16 seasonal cost ratios and were therefore selected for
17 adjustment.

18 Q. Please describe the process for adjusting seasonal
19 revenue differentials?

20 A. For each selected class, we followed a three-step process
21 to establish a target seasonal delivery revenue ratio and

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 adjust seasonal delivery revenue, on a revenue-neutral
2 basis, to approach the new target ratio.

3 First, we adjusted the seasonal delivery revenue ratio by
4 10 percent of the difference between the current seasonal
5 delivery revenue ratio and the seasonal cost ratio to
6 establish a new target seasonal delivery revenue ratio.

7 Second, in order to approach the new target seasonal
8 delivery revenue ratio, we applied a percentage
9 adjustment to the winter revenue, and an offsetting
10 adjustment to summer revenue to redesign rates at the
11 current level on a revenue-neutral basis. The revenue
12 adjustment was applied to the non-competitive delivery
13 revenue.

14 Finally, the rates were redesigned based on the revised
15 summer and winter revenues from step two.

16 Q. Please describe the results of this approach.

17 A. For the SC 8 TOD and SC 9 TOD classes, a portion of
18 summer revenue was shifted to the winter revenue target.
19 This adjustment resulted in summer to winter revenue
20 ratios changing to make gradual progress (i.e., 10
21 percent of the difference) towards the summer to winter
22 cost ratios.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

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VII. REVENUE AND BILL IMPACTS

3

Q. Having computed revised rates for each SC, have you prepared exhibits showing what the estimated impact on customers' bills would be under the proposed rates?

4

5

6

A. Yes. We prepared Exhibit ___ (ERP-2), the first page of which is entitled "CONSOLIDATED EDISON COMPANY OF NEW YORK, INC. ESTIMATED EFFECT ON ELECTRIC CUSTOMERS' BILLS AND COMPANY REVENUES RESULTING FROM PROPOSED ELECTRIC RATES BASED ON SALES AND REVENUES FOR THE 12 MONTHS ENDED DECEMBER 31, 2019."

10

11

12

Q. Please continue.

13

A. Exhibit __ (ERP-2) includes nine schedules that compare present and proposed revenue levels and rates and show the estimated impacts on customers' bills resulting from the proposed rates.

14

15

16

17

Q. Please explain each schedule.

18

A. Exhibit __ (ERP-2) - Schedule 1, shows for the Electric Tariff, by SC, the number of monthly bills rendered, kilowatt hours delivered, and the revenues for the 12 months ended December 31, 2019, that would have been derived from Con Edison full service and retail access

19

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 customers at the conventional and TOD rates at the
2 Current Revenue Level. The annualized revenues reflect
3 the effect of an estimated MAC and market supply charge
4 ("MSC") for both full service and retail access
5 customers.

6 Exhibit __ (ERP-2) - Schedule 2 shows, for the PASNY
7 Tariff, the number of bills rendered on NYPA customer
8 accounts, kilowatt hours delivered, and the annualized
9 revenues for the 12 months ended December 31, 2019 that
10 would have been derived at the Current Rates. The
11 annualized revenues include an estimated supply cost for
12 NYPA customers.

13 Exhibit __ (ERP-2) - Schedule 3 shows a comparison of
14 Current Rates and proposed Rate Year Con Edison Rates and
15 Charges. It consists of 49 tables, headed by an index
16 sheet, which covers all of the existing SCs. Each table
17 consists of two columns. The left hand column shows the
18 rates and charges at the Current Revenue Level, and the
19 right hand column shows the proposed rates and charges.

20 Exhibit __ (ERP-2) - Schedule 4 shows a comparison of the
21 Current Rates and proposed Rate Year rates and charges
22 under the PASNY Tariff. It consists of seven tables.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Each table consists of two columns. The left hand column
2 shows the rates and charges at the Current Revenue Level,
3 and the right hand column shows the proposed rates and
4 charges.

5 Exhibit __ (ERP-2) - Schedule 5 shows bill comparisons
6 for Con Edison customers at Current Rates and at the
7 proposed rates. It consists of tables that show
8 comparisons of monthly bills at various consumption
9 levels under rates and charges at the Current Revenue
10 Level and under the proposed rates and charges for the
11 Con Edison SCs. These comparisons show bills covering a
12 reasonable range of monthly use for the classes shown.

13 Exhibit __ (ERP-2) - Schedule 6 shows, for each TOD SC,
14 the annual percentage change in customers' bills under
15 TOD rates at the Current Revenue Level and proposed TOD
16 rates based upon consumption levels for the 12 months
17 ended December 31, 2019.

18 Exhibit __ (ERP-2) - Schedule 7 shows, for each Con
19 Edison SC, the estimated change in revenues under the
20 proposed Rate Year conventional and TOD rates and
21 charges, the overall percentage change by SC, and the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 estimated effect on customers' bills based on sales and
2 revenues for the Historic Period.

3 Exhibit __ (ERP-2) - Schedule 8 shows for the Historic
4 Period the estimated increase in PASNY delivery service
5 revenues under the proposed Rate Year rates and charges.
6 The revenues and bill impacts shown in Exhibit ___ (ERP-
7 2), Schedules 1, 2, 5, 6, 7 and 8 include the same MSC,
8 SBC and Dynamic Load Management ("DLM") charges in the
9 revenues and bill amounts at the Current Revenue Level
10 and proposed revenues and bill amounts in order to
11 demonstrate the impact of the change in delivery rates on
12 a customer's total bill amount, including the increase in
13 fixed generation costs to be included in the MAC, which
14 is a component of the net Rate Year delivery revenue
15 increase.

16 As discussed above, Current Rates and the Current Revenue
17 Level are based on the rates that became effective
18 January 1, 2022 since these are the Commission-authorized
19 rates and revenue level that will be in effect prior to
20 the changes proposed in this case.

21 Q. Have you prepared any analyses that show the change in
22 total Con Edison customers' bills taking into account

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 both the increase in proposed delivery rates and other
2 expected changes, such as changes in supply costs?

3 A. Yes. We have prepared Exhibit __ (ERP-2) - Schedule 9
4 entitled "PROJECTED ELECTRIC BILLS." In this schedule,
5 we provide bill comparisons for the three 12-month
6 periods commencing January 1, 2023, January 1, 2024, and
7 January 1, 2025, at projected levels for the following
8 customers: (1) an SC 1 residential customer using 280 kWh
9 per month (median New York City customer); (2) an SC 1
10 residential customer using 425 kWh per month (median
11 Westchester customer); (3) an SC 1 residential customer
12 using 600 kWh per month; (4) an SC 2 customer using 600
13 kWh per month; and (5) an SC 9 Rate I customer with a
14 maximum demand of 30 kW and load factor of 50 percent.

15 Q. Please explain Schedule 9.

16 A. Schedule 9 of Exhibit __ (ERP-2) shows average monthly
17 bills for these selected customers at current rates and
18 proposed rates for each 12-month period. In these
19 comparisons, the supply and delivery-related portions of
20 the bills are also shown. Supply charges assume
21 projected MSC and GRT associated with the MSC based on
22 the supply cost projections made by Company witness

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Kimball - Electricity Supply. The delivery charges
2 consist of projected non-competitive T&D delivery charges
3 and projected competitive service charges based on three
4 years of projected delivery revenue requirements provided
5 by the Accounting Panel. Delivery charges also include
6 projections for various other charges, such as the SBC
7 and DLM, for each of the three Rate Years.

8
9 **VIII. REVENUE DECOUPLING MECHANISM**

10 Q. Are you proposing any changes to the RDM?

11 A. Yes. We are proposing to extend the applicability of the
12 RDM to all Standby Service customers.

13 Q. Please describe the Standby Service customers that are
14 currently included in the RDM.

15 A. Currently, the RDM is applicable to certain customers who
16 opt into being billed under Standby Service rates
17 pursuant to the May 2019 Standby Order. These customers
18 have been designated as Rate Choice Customers and, in
19 accordance with the May 2019 Standby Order, are included
20 in the RDM. All other customers billed under Standby
21 Service rates are excluded from the RDM.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Q. Why are you proposing to include the RDM to all customers
2 billed under Standby Service rates?

3 A. By expanding the RDM to all customers that are billed
4 under Standby Service rates, the level of standby
5 revenues will be included in the RDM target revenue
6 providing revenue assurances for the Company and
7 stability for customers in the respective RDM groupings.
8 Additionally, including standby customers in the RDM will
9 provide consistency with all customers in the class
10 paying or receiving credits as well as consistency
11 statewide with other utilities. Examples of utilities
12 with standby service in the RDM include Central Hudson
13 Gas and Electric Corporation and Niagara Mohawk Power
14 Corporation. Finally, in O&R's recent Joint Proposal in
15 Case 21-E-0074, parties agreed to include standby
16 customers in the RDM. The Joint Proposal is pending
17 approval by the Commission.

18 Q. When does the Company propose to include standby
19 customers in the RDM?

20 A. Given the implementation of the Company's new billing
21 system in mid-2023, the Company proposes to include
22 standby customers in the RDM commencing January 1, 2024.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Therefore, standby customers will be assessed the RDM
2 Adjustment applicable to their SC effective August 1,
3 2024, which will reflect the reconciliation of January
4 through June 2024.

5 Q. Are you proposing any other changes related to the RDM
6 regarding Standby Service customers?

7 A. Yes. With the expansion of the RDM to include all
8 Standby Service customers, the Company is proposing to
9 combine SCs 8 and 13 into one revenue target effective
10 January 1, 2024. SC 13 consists of a limited number of
11 customers and an RDM category based solely on this class
12 would not be appropriate.

13

14 **IX. BUSINESS INCENTIVE RATE**

15 Q. What is the Business Incentive Rate ("BIR")?

16 A. The BIR (Rider J of the Electric Tariff) provides a
17 delivery rate reduction that has been typically used to
18 promote economic development in the Company's service
19 territory. Although it has several offerings, it is
20 primarily available to businesses that open in new or
21 formerly vacant buildings or receive a comprehensive

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 package of economic incentives conferred by a
2 governmental agency.

3 Q. Is the Company proposing to continue its BIR program?

4 A. Yes. Since the BIR supports the Company's continuing
5 efforts to foster economic development in its service
6 territory, the Company proposes to extend the BIR
7 application period during the term of the new rate plan.

8 Q. Is the Company proposing a change to the BIR offerings?

9 A. Yes, it is.

10 Q. Please explain your proposed change.

11 A. The Company is proposing to add a new program offering to
12 provide temporary relief for small business customers
13 given the COVID-19 pandemic impact on that community.

14 Q. What are the eligibility criteria for the new program
15 component?

16 A. To be eligible for the Company's proposed COVID-19 BIR, a
17 small business customer must: (1) not be currently
18 receiving BIR rate reductions; (2) provide proof that it
19 has received assistance from city, county, state or
20 federal government agencies directly related to COVID-19
21 such as a grant or loan; (3) receive service from the
22 Company under either SC 2 or SC 9 Rate I with a monthly

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 maximum demand less than 30 KW for the past 12
2 consecutive months, and (4) submit an application for
3 COVID-19 BIR by December 31, 2023.

4 Q. Would there be any program limits?

5 A. Yes. We propose that COVID-19 BIR will have a maximum
6 term of three years from the month the customer first
7 receives the rate reduction and a total cumulative
8 maximum benefit of \$50,000 over the three years per
9 customer. Additionally, the Company proposes that rate
10 reductions are provided up to a maximum aggregated
11 allocation of 30 MW, with 5 MW reserved for SC 9
12 customers and 25 MW reserved for SC 2 customers.

13 Q. What is the Company's proposal on the source of the 30 MW
14 allocation?

15 A. Currently, BIR has an aggregate limit of 452 MW to
16 allocate among the various programs with the New and
17 Vacant Program of BIR at a maximum of 125 MW. The
18 Company proposes to use the 30 MW from unsubscribed
19 allocations for the New and Vacant BIR program. In other
20 words, we are preserving the full BIR allocation for all
21 other BIR offerings.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Q. Would there be any requirement for an energy audit
2 similar to other BIR program offerings?

3 A. No. Customers served under the COVID-19 BIR program
4 would not be subject to energy audits as a condition for
5 eligibility because this is a short-term temporary relief
6 program and it enables applicants to enroll in the
7 program sooner.

8 Q. What types of government grants or loans will be
9 considered?

10 A. Due to the changing forms of government assistance
11 available to COVID-impacted businesses, the Company is
12 proposing to establish, at the onset of the program, a
13 list of acceptable government programs on the Company's
14 website.

15 Q. What are the proposed COVID-19 BIR rate reduction
16 percentages?

17 A. For COVID-19 BIR customers taking service under SC 9 Rate
18 I, the rate reduction would be 39 percent, the same rate
19 reduction percentage applicable to SC 9 Rate I customers
20 under the other BIR offerings. For COVID-19 BIR
21 customers taking service under SC 2, for which there is
22 no current BIR rate reduction percentage, we propose a

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 rate reduction percentage of 39 percent, equal to the SC
2 9 Rate I percentage, so all COVID-19 BIR customers are
3 provided a common rate reduction percentage.

4 Q. How will the COVID-19 BIR rate reductions be funded?

5 A. In order to recover from all customers, including NYPA,
6 the Company proposes to recover the rate reductions
7 provided to customers under the COVID-19 BIR program
8 through the MAC and Other Charges and Adjustments ("OTH")
9 applicable to NYPA customers.

10 Q. Why is the Company proposing a different method of cost
11 recovery for this BIR program?

12 A. The Company believes that there should be full cost
13 recovery for all BIR programs, but the opposing view has
14 been that the Company benefits from economic development
15 programs to attract new customers in our service
16 territory. But, even that view does not apply to this
17 program because it is an assistance program for existing
18 small businesses and not an economic development program
19 designed to attract new customers.

20 Q. Are you proposing any other changes for the BIR Program?

21 A. Yes. The Company proposes that Special Provision C of
22 SCs 2 and 9 does not apply to BIR customers. Special

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Provision C provides certain criteria (i.e., demand
2 thresholds over a period of time) for customer transfers
3 between SC 2 and 9. Under this proposal, BIR customers
4 would remain in the class under which they took service
5 when commencing service under the BIR.

6

7 **X. TARIFF CHANGES AND OTHER RELATED TARIFF MATTERS**

8 Q. Are you proposing a change to the provisions of the
9 Electric Tariff that requires the Company to provide
10 compensation for losses related to service outages?

11 A. Yes. General Rule 21.1, Continuity of Supply (Leaf 171),
12 currently provides compensation to (a) residential
13 customers for actual losses of perishable prescription
14 medicine and up to \$540 for food spoilage, and (b)
15 commercial customers for loss of perishable merchandise
16 up to \$10,700. Claimants must provide proof of loss,
17 with the exception of residential claimants who are
18 reimbursed without proof of loss for food spoilage up to
19 \$235 upon submission of an itemized list. We propose to
20 increase the compensation limits for residential
21 customers for food spoilage with and without proof of
22 loss from \$540 to \$580 and from \$235 to \$250,

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 respectively, and for commercial customers from \$10,700
2 to \$11,460.

3 Q. What is the basis for the proposed increases?

4 A. The proposed compensation limits were set following the
5 methodology prescribed in the Commission's November 23,
6 2007 Order Concerning Tariff Provisions Governing
7 Reimbursement for Food Spoilage in Case 06-E-0894
8 ("Reimbursement Order"). The methodology in the
9 Reimbursement Order provides for updating the
10 compensation limits based on applying the Gross Domestic
11 Product Deflator ("GDPD") to current reimbursement
12 limits. Based on the percentage change in the Implicit
13 Price Deflators ("IPD") for GDPD for personal consumption
14 expenditures, which the Bureau of Economic Analysis lists
15 under Table 1.1.9, from the third quarter 2018 amount
16 (108.452) to the third quarter 2021 amount (116.232),
17 current tariff compensation limits were increased by 7.1
18 percent and rounded to the nearest multiple of \$5 for
19 residential customers and the nearest multiple of \$100
20 for commercial customers. We used the third quarter 2018
21 IPD amount for comparison because that amount was the IPD

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 at the time the current compensation limits became
2 effective, on February 1, 2020.

3 Q. Are you proposing any tariff changes due to the
4 Paulin/Comrie climate resiliency bill that was signed
5 into law on December 22, 2021 that amends Section 66 of
6 the Public Service Law?

7 A. Not at this time. The Company is assessing the newly
8 enacted law and will address, if appropriate, in its
9 Update filing.

10 Q. Are there changes required to the RDM Allowed Pure Base
11 Revenue targets for the Con Edison service classes (Leaf
12 351) and PASNY tariff (Leaf 22)?

13 A. Yes. These targets will be revised at the end of this
14 proceeding to set forth the annual revenue targets for
15 Con Edison service classes and NYPA based on the final
16 revenue requirement level approved by the Commission. In
17 addition, as discussed in the RDM section above, the
18 Panel will update the tariff to reflect the inclusion of
19 customers served under all Standby Service rates and the
20 combination of SC 13 with SC 8 in the RDM at least 30
21 days prior to January 1, 2024.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Q. Are there changes required for the Transition Adjustment
2 mechanism?

3 A. Yes. We updated the competitive services revenue targets
4 used in the determination of the Transition Adjustment in
5 General Rule 28.2.

6 Q. Did the Company update the monthly bill credit applicable
7 to RNY customers (Leaf 459.0.2)?

8 A. Yes. As discussed in the Revenue Allocation section
9 above, since RNY customers are exempt from energy
10 efficiency programs, the Panel has updated the monthly
11 bill credit applicable to RNY customers to offset
12 additional energy efficiency costs that will be recovered
13 in base rates.

14 Q. What changes are being proposed related to the period for
15 which uncollectible bill ("UB") percentages are
16 determined?

17 A. We propose to change various references to UB experiences
18 for electric and gas customers based on the 12-month
19 periods ending each September. This change would affect
20 three sections of the Electric Tariff that reference UB
21 factors: (1) POR discount on Leaf 146, which is currently
22 based on the 12 months ending November; (2) reconciliation

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 for the MSC and Adjustment Factors - MSC charges on Leaf
2 336, which is based on a level initially set at the onset
3 of a rate plan; and (3) reconciliation for MAC and the MAC
4 Reconciliation component of the Adjustment-Factor - MAC on
5 Leaf 344, which is also based on the approved level at the
6 onset of a rate plan.

7 Q. Why are you proposing this change?

8 A. The main driver for the proposal is to better reflect
9 changes in UB levels during the course of a rate plan.
10 For the reconciliation of the MSC and MAC, a UB level set
11 initially could change significantly up or down and
12 allowing the UB factors to refresh annually would allow
13 rate recovery more consistent and timely with actual UB
14 experiences. The change in the UB determination period
15 for the POR discount from 12 months ending November to 12
16 months ending September would allow for consistency of the
17 changes to the MSC and MAC provisions. Since the UB
18 factors for the MSC and MAC provisions would be included
19 in compliance tariff filings, which are typically filed in
20 early December, for each rate year, the 12-month period
21 through September will allow the updates for all three

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 tariff provisions to be included with each compliance
2 tariff filing.

3 Q. Are you proposing any tariff changes for SC 1 Rate IV?

4 A. Yes. Rate IV currently requires that customers install
5 geothermal heat pumps and includes a limitation on the
6 number of other customers who may elect this rate. We
7 propose to eliminate these eligibility requirements making
8 SC 1 Rate IV an optional rate generally available to all
9 SC 1 customers.

10 Q. Is the Company proposing any changes to the eligibility
11 of SCs?

12 A. Yes. The Company is clarifying that SC 2 General - Small
13 and SC 9 General - Large are SCs intended for which no
14 other SC specifically apply, to avoid ambiguity. The
15 other SCs are intended for the specific customers as
16 specified while SCs 2 and 9 are designed for general non-
17 residential customers that do not qualify for the other
18 SCs. The only exceptions are certain religious
19 organizations, community residences and veterans halls
20 and accounts established for the sole purpose of plug-in
21 electric vehicle charging that may select to be served

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 under SC 1, or stay in SCs 2 or 9, which the Company also
2 clarified.

3 Q. Is the Company proposing any tariff changes as a result
4 of the implementation of AMI in its service territory?

5 A. Yes, the Company has made the following tariff changes as
6 a result of the implementation of AMI in its service
7 territory:

8 • Eliminated the provisions in the Electric Tariff and
9 PASNY Tariff requiring Standby Service and Buy-back
10 service customers to provide communications service
11 for Output Meters. For new customers requiring Output
12 Meters, AMI meters will be installed and
13 communications for the AMI Output Meter will be
14 included in the Company's AMI network. The Company
15 will replace Output Meters with AMI meters for
16 existing customers so that the Output Meters will be
17 compatible with the Company's AMI system.

18 • Eliminated a provision in the Electric and PASNY
19 Tariffs requiring Single and Multi-party Standby
20 Offset customers to provide and maintain the
21 communication services for non-AMI meters. The
22 Company expects to replace all existing Single and

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Multi-party Standby Offset customer meters with AMI
2 meters by January 1, 2023. Going forward, new Standby
3 Offset customers will have AMI meters. The Company
4 will provide the communications service for AMI
5 meters. Therefore, this provision is no longer
6 needed.

7 • Modified the reference to interval data for Standby
8 Offset customers in General Rule 20.4.6 from "each 15
9 minute interval" to "each metered interval," because
10 the Company is in the process of transitioning the
11 meters for Standby Offset customers to AMI meters,
12 which measure usage in five-minute intervals for
13 commercial customers.

14 • Added an option for Rider R customers to close an
15 account on the date of request for customers with
16 communicating AMI meters, since the Company would be
17 able to obtain an actual reading for such customers.

18 • Eliminated provisions in SC 2, SC 12, and the PASNY
19 Tariff, requiring the installation of a demand meter
20 if it is determined that the Customer might use more
21 than 10 kW of maximum demand or if the Customer's
22 usage exceeds 6,000 kWhr for a 60-day period. The

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Company has also eliminated in SCs 5, 8, 9, 11, and 13
2 language stating that it would install demand meters
3 for those SCs. Since the Company has been installing
4 AMI meters, which are capable of measuring demand,
5 these provisions are no longer necessary.

- 6 • In SC 12, Multiple Dwelling Space Heating, we added
7 Special Provision E to establish the demand thresholds
8 for customers billed for both energy and demand, and
9 customers billed for energy only under Rate I and Rate
10 III. This is necessary for three reasons: (1) as noted
11 above, we have eliminated provisions requiring
12 installation of a demand meter under certain
13 circumstances; (2) essentially every SC 12 Customer
14 will have an AMI meter that is capable of measuring
15 demand so rules are needed to clarify the conditions
16 under which customers will be billed for both energy
17 and demand versus energy only; and (3) to provide
18 consistency with similar provisions under SCs 2 and 9.
19 The proposed Special Provision E states that whenever
20 a Customer's maximum demand under Rate I or Rate III
21 of SC No. 12 exceeds 10 kilowatts in two consecutive
22 months, the Customer's use thereafter will be billed

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 under both energy and demand rates. And, whenever a
2 Customer's maximum demand under Rate I or Rate III of
3 Service Classification No. 12 shall not have exceeded
4 5 kilowatts for a period of 12 consecutive months, the
5 Customer's use thereafter will be billed under energy
6 only rates. Rates were adjusted to account for this
7 change, as discussed in the Rate Design section above,
8 and the revenue impact is minimal.

- 9 • Specified in General Rule 6.10 that Residential
10 Customers who are required to have an Interval Meter
11 cannot opt-out of AMI since the Company will no longer
12 support non-AMI Interval Meters.

13 Q. Did the Company propose any tariff changes related to
14 Standby Service and SC 11 - Buy-back Service?

15 A. Yes, the Company has made the following tariff changes
16 related to Standby Service and SC 11 - Buy-back Service:

- 17 • Combined the interconnection and operation provisions
18 under General Rule 20 - Standby Service and SC 11 -
19 Buy-back Service under a new common General Rule 8.4
20 since they are duplicative. Any minor inconsistencies
21 between the original Standby Service and Buy-back
22 Service interconnection and operation provisions were

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 made consistent. Furthermore, the option to pay the
2 capital costs of interconnection in a lump sum rather
3 than an annual surcharge that was only available to
4 Standby Service customers has been extended to Buy-
5 back Service customers.

6 • General Rules 20.2.1(B)(7), 20.2.1(B)(8), and
7 20.2.1(B)(9), were moved from General Rule 20.2 -
8 Interconnection and Operation to a more appropriate
9 section, General Rule 20.4 - Billing under Standby
10 Service rates. References were updated throughout the
11 tariff to reflect this change.

12 • Eliminated the requirement in General Rule 20.3.2 that
13 customers with designated technologies make a one-time
14 election to be billed under Standby Service rates 30
15 days before commencing operation of an onsite
16 generating facility. This would allow flexibility for
17 customers to make this one-time election at any time.

18 • Eliminated the option to sell to the NYISO under SC
19 11. Customers that seek to sell energy have two
20 options. The customer may sell energy back to the
21 Company under SC 11 or the customer may participate in
22 the wholesale energy market by selling energy to the

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 NYISO under the Company's FERC-jurisdictional Open
2 Access Transmission Electric Tariff.

3 • Eliminated the 20 MW upper limit for customers served
4 under the new General Rules 20.4.5 and 20.4.6, because
5 the Company has determined that distributed generators
6 above 20 MW may be interconnected to the Company's
7 distribution system subject to engineering review on a
8 case-by-case basis. In addition, the Company has
9 revised the reference to the Company's distributed
10 generation guides from a reference to a specific guide
11 to a general reference to the Company's multiple
12 distributed generation guides.

13 Q. Is the Company proposing any housekeeping changes to the
14 Electric Tariff and PASNY Tariff?

15 A. Yes, the Company proposes housekeeping changes as follows:

16 • Added the existing EV Make-Ready Surcharge section to
17 the table of contents and to the list of delivery
18 surcharges in General Rule 26.
19 • Clarified the definition for Pure Base Revenue on Leaf
20 17 so that it includes the comparable charges under
21 the applicable Riders to the Customer's Service

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 Classification, such as comparable charges under
2 Riders Z, AA and AB.
- 3 • Added an option for facilities to be installed
4 underground to include when the Company elects to
5 provide underground facilities on Leaf 45, to be
6 consistent with the existing Elective Underground
7 Installation provision on Leaf 47.
 - 8 • Deleted specific language related to flood protection
9 requirements for customers that are included in
10 Company specifications on Leaf 56, since they may be
11 updated from time to time. The Company also clarified
12 that equipment associated with transformers should be
13 protected in addition to the transformers themselves.
 - 14 • Deleted a provision related to customer-owned meters
15 on Leaf 129, which is obsolete.
 - 16 • Made the following housekeeping changes to Rider T-
17 Commercial Demand Response Program:
 - 18 o Deleted an obsolete provision that was applicable
19 only in 2017 and 2018.
 - 20 o Deleted obsolete provisions that were applicable
21 only during the 2020 capability period.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 o Removed the "or" in the DRV and/or LSRV Rider R
2 Value Stack Tariff restriction. As described
3 under Rider R Value Stack Tariff, this
4 restriction applies to both DRV and LSRV.
- 5 • Regarding the MAC, the Panel is proposing to remove or
6 revise the following MAC components in General Rule
7 26.1.1:
- 8 o Revised component 9 regarding Customer's share of
9 the cost of the savings passed on to eligible
10 Customers, rather than Madison Square Garden, in
11 accordance with Section 3, Chapter 459, 1982 N.Y.
12 Laws. A corresponding change was made in the
13 PASNY Tariff. SC 9 Special Provision F was also
14 revised to indicate that eligible Customers,
15 rather than Madison Square Garden, will be
16 subject to an adjustment pursuant to Section 3,
17 Chapter 459, 1982 N.Y. Laws.
- 18 o Removed component 29 related to costs associated
19 with non-Company owned generation facilities
20 pursuant to a settlement agreement among the
21 parties to *Indeck v. Paterson*, Index No. 5280-09,
22 Supreme Court, Albany County.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 o Revised component 33 to remove specific Energy
2 Efficiency and Demand Response Program costs that
3 have expired to be recovered in the MAC, with any
4 remaining Energy Efficiency and Demand Response
5 Programs to be recovered in the MAC, as approved
6 by the Commission. A corresponding change was
7 made in the PASNY Tariff.
- 8 o Removed component 34 related to the Smart Grid
9 Project. General Rule 26.1.4 further describing
10 the Smart Grid Project was also removed. A
11 corresponding change was made in the PASNY
12 Tariff.
- 13 o Removed component 35 related to payments made by
14 NYSERDA pursuant to a settlement agreement among
15 the parties to *Indeck v. Paterson*, Index No.
16 5280-09, Supreme Court, Albany County.
- 17 o Removed component 37 related to recovery of the
18 125 MW Energy Efficiency/Demand
19 Reduction/Combined Heat and Power Program costs
20 as this program has been completed.
- 21 o Removed component 47 related to consultant costs
22 to develop a marginal cost study approach for a

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 climate change vulnerability study and
2 implementation plan. A corresponding change was
3 made in the PASNY Tariff.

- 4 • Added time periods to clarify the EV Make-Ready
5 Surcharge applicable to Rate II of SC 5 and Rate II
6 and Rate III of SCs 8, 9, and 12 on Leaf 359.1, to be
7 consistent with the current practice and other similar
8 surcharges.
- 9 • Deleted obsolete provisions in SCs 8, 9, and 12 that
10 expired in 1997 that allowed 20 customers with thermal
11 storage to be on Time-of-Day rates. The Company has
12 since implemented voluntary Time-of-Day rates
13 available to all customers in those service classes.
- 14 • Deleted SC 9 Special Provision D on Leaf 458, and all
15 references to it, because the percentage reduction
16 expired in 2018.
- 17 • Corrected the indentation in the last paragraph of the
18 PASNY Tariff on Leaf 17.1.
- 19 • Clarified that Rate I PASNY customers transfer from
20 non-demand billed service rates to demand billed
21 service rates if their maximum demand exceeds 10
22 kilowatts in two consecutive months and transfers from

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 demand billed service rates to non-demand billed
2 service rates if the PASNY Customer's maximum demand
3 for a period of 12 consecutive months shall not have
4 exceeded 5 kilowatts. This change is consistent with
5 current practice and with similar provisions in SC 2
6 and SC 9 of the Electric Tariff. The Company is also
7 updating the titles under Rate I of the PASNY Tariff
8 from "non-demand metered service" to "non-demand
9 billed service" and "demand meter service" to "demand
10 billed service."

- 11 • Deleted the obsolete Transition Adjustment for
12 Metering Services in the PASNY Tariff.
- 13 • Deleted recovery for Earning Adjustment Mechanisms
14 ("EAMs") associated with the System Peak Reduction
15 Program targets in the Contribution to EAMs and Other
16 Revenue Adjustments section in the PASNY Tariff, since
17 it is obsolete. The Company also clarified the energy
18 efficiency programs for which costs are not allocated
19 to PASNY customers.
- 20 • Added General Rule 5.2.5, Permits, which was
21 erroneously deleted.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 Q. Have you proposed tariff changes associated with
2 proposals made by other Company witnesses?

3 A. Yes, the following tariff changes are described in other
4 testimonies of the Company:

5 • As described in the testimony of the Accounting Panel,
6 the Company has:

7 o Updated the corporate overheads and storage and
8 handling fee in General Rule 17.3 of the Electric
9 Tariff (Leaf 126), which lists the elements of costs
10 charged for special services performed by the
11 Company.

12 o Added MAC component 10 to recover carrying charges
13 associated with interference costs causing an
14 exceedance of the net electric plant target. A
15 corresponding change was made in the PASNY Tariff to
16 add a new section entitled "Reconciliation of
17 Interference Costs" to the OTH section. The
18 Municipal Infrastructure Support Panel also further
19 describes this change.

20 o Added MAC component 11 to recover the amount by
21 which annual storm costs exceed the annual rate
22 allowance, when such excess amount exceeds \$7

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 million each year, up to 2.5 percent of delivery
2 revenue each year. A corresponding change was made
3 in the PASNY Tariff to add a new section entitled
4 "Reconciliation of Storm Costs" to the OTH section.
5 The Storm Response and Resilience Panel also further
6 describes this change.

7 o Added MAC component 20 to recover the reconciliation
8 of the actual late payment fee revenues with
9 Commission approved levels included in base rates in
10 2023 and future years and collect/pass back any
11 variance over a subsequent twelve-month period as
12 authorized by the Commission. A corresponding
13 change was made in the PASNY Tariff to the existing
14 section "Unbilled Fees Adjustment" in the OTH
15 section. In addition, the Panel has included in MAC
16 component 20 recovery related to unbilled fees that
17 were approved for recovery through the MAC pursuant
18 to the Commission's Order Authorizing Alternative
19 Recovery Mechanism for Unbilled Fees, issued and
20 effective November 18, 2021, in Cases 19-E-0065 and
21 19-G-0066, for clarity. Furthermore, the Panel has
22 deleted "of its current Rate Plan" in Case 19-E-0065

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 from the existing provision in the Unbilled Fees
2 Adjustment component of the OTH section in the PASNY
3 Tariff, since the Rate Plan in Case 19-E-0065 will
4 no longer be considered to be the "current Rate
5 Plan" if this Rate Plan were to be approved.

6 o Added MAC component 21 to recover the difference,
7 plus interest, between the actual annual
8 uncollectible expense and Commission approved levels
9 in rates for the period January 1, 2020 through
10 December 31, 2025. After that time, the Company may
11 recover any under-collections. Additionally, the
12 Company proposes to include the reconciliation of
13 the non-C&C related portion of the POR Discount
14 reconciliation. A corresponding change was made in
15 the PASNY Tariff to add a new section entitled
16 "Uncollectible Bill Expense Adjustment" to the OTH
17 section.

18 o Added MAC component 23 to charge or credit customers
19 the amount by which actual annual property taxes
20 differ from Commission approved levels in base
21 rates. A corresponding change was made in the PASNY

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 Tariff to add a new section entitled "Reconciliation
2 of Property Taxes" to the OTH section.
- 3 • As described in the testimony of the Electric
4 Infrastructure and Operations Panel, the Company has:
 - 5 o Updated its re-inspection charge in General Rule
6 16.3, Charges for Re-inspection (Leaf 121), charge
7 for replacing a damaged AMI meter in General Rule
8 16.1 (Leaf 121), and charges for certain special
9 services provided at stipulated rates (i.e., hi-pot,
10 Megger, and dielectric fluid tests) in General Rule
11 17.1, Special Services at Stipulated Rates (Leaf
12 122).
 - 13 o Added a new provision to General Rule 7.1 - Customer
14 Wiring and Equipment (Leaf 64) that for customers
15 served under the Company's Selective Undergrounding
16 Program, the Company will furnish and install the
17 wiring and equipment, as necessary; provided that
18 the Customer will maintain the wiring and equipment.
 - 19 o Added a new provision, General Rule 5.2.8 - Street
20 or Sidewalk Services. Other conforming changes were
21 made to address this new provision.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 • With respect to the low-income program, which is also
2 discussed by the Customer Operations Panel:
- 3 o General Rule 15.2, Reconnection Charge, of the
4 Electric Tariff (Leaf 119) has been revised to
5 continue the waiver of the reconnection charge for
6 customers enrolled in the low-income program, up to
7 an annual target amount of \$1,188,186. The Company
8 will notify parties in its most recent electric rate
9 plan if it projects that the target cost will be
10 reached during any Rate Year.
- 11 o The RDM sections in the Electric Tariff (Leaf 352)
12 and the PASNY Tariff (Leaf 22) have been revised to
13 reset the annual level of low-income program costs
14 included in rates to \$118.82 million for each rate
15 year that the low-income program is in effect, and
16 to indicate that the low-income program will
17 continue beyond December 31, 2023, contingent on the
18 continuation of full cost recovery through the RDM
19 Adjustment or an equivalent mechanism.
- 20 • As described in the testimony of the Customer Energy
21 Solutions Panel:

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 o The Company has eliminated Riders P, V, and W and
2 references to those Riders throughout the
3 Electric Tariff.
- 4 o The Company has added a new provision, General
5 Rule 5.2.4.4, Distributed Energy Resources Make
6 Ready Program for Disadvantaged Communities and
7 Low-Income Customers.
- 8 o The Company will update the Electric Tariff to
9 provide renewable bill credits to customers
10 enrolled in the Company's low-income program once
11 the Company's Low-Income Renewable Bill Credit
12 program has been implemented, currently estimated
13 to be in 2024.

14

15

XI. LINE LOSSES

- 16 Q. Does the Company account for system losses when billing
17 customers for supply?
- 18 A. Yes, the Company's existing factor of adjustment of 1.063
19 is included in the Company's bill calculation methodology
20 for the MSC components (i.e., energy, capacity, NTAC and
21 Ancillary Services) for all customers who purchase supply
22 from the Company, including customers billed under Rider

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

1 M - Day-ahead Hourly Pricing. This factor is reflected
2 in the Factor of Adjustment for Losses applicable to the
3 MSC.

4 Q. Describe the Company's proposal with respect to the
5 Factor of Adjustment for Losses.

6 A. The Company proposes to increase its Factor of Adjustment
7 for Losses to 1.071 to reflect the loss percentage of 6.6
8 percent based on the five-year average ended 2020. The
9 Company proposes to state the 1.071 Factor of Adjustment
10 for Losses and the 6.6 percent loss percentage in the MSC
11 section, General Rule 25.1.

12 Q. How is the loss percentage converted into a factor of
13 adjustment that can be applied to total metered usage to
14 account for losses?

15 A. The loss percentage, which is the result of dividing
16 system losses by system sendout, is converted into the
17 factor of adjustment by dividing 1 by a denominator that
18 is 1 minus the loss percentage expressed as a decimal.

19 Q. Will the Factor of Adjustment for Losses be applied to
20 all full service customers' supply costs, including Rider
21 M customers?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY - ELECTRIC RATE PANEL

- 1 A. Yes. The updated Factor of Adjustment for Losses will
2 continue to be applied to supply costs for all full
3 service customers, including Rider M customers.
- 4 Q. Does this conclude your testimony?
- 5 A. Yes.

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

TABLE OF CONTENTS

| | Page |
|-------------------------------------|------|
| PURPOSE OF TESTIMONY..... | 4 |
| HISTORICAL SUPPLY COSTS..... | 5 |
| PROJECTED SUPPLY COSTS..... | 12 |
| SUPPLY COST SAVING INITIATIVES..... | 18 |
| SYSTEM ENHANCEMENTS..... | 24 |

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 Q. Please state your name, title, employer, and business
2 address.

3 A. My name is Ivan Kimball. I am Vice President, Energy
4 Management for Consolidated Edison Company of New
5 York, Inc. ("Con Edison" or the "Company"). My office
6 is located at 4 Irving Place, New York, New York
7 10003.

8 Q. Please describe your responsibilities in that
9 position.

10 A. I am responsible for providing the overall strategic
11 planning and direction for forecasting service area
12 demand, evaluating electric, natural gas, and steam
13 resource options, and procuring electricity and
14 natural gas, oil and renewable attributes. I perform
15 these functions for the customers of Con Edison,
16 Orange and Rockland Utilities, Inc. ("O&R") and
17 Rockland Electric Company ("RECO").

18 Q. Please describe your professional background.

19 A. I have been in my current position since July 2012.
20 From August 2008 to June 2012, I was Director,
21 Electricity Supply for Con Edison. In that position,
22 I was responsible for day-to-day electricity supply

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 operations, including the scheduling of generation and
2 load bids with the New York Independent System
3 Operator, Inc. ("NYISO") and neighboring control
4 areas; developing the overall electric power
5 procurement plans for full service customers;
6 developing and implementing Con Edison's electric
7 hedging program; strategically evaluating and
8 participating in capacity and transmission congestion
9 contract ("TCC") auctions; managing contractual rights
10 with various non-utility generators; and processing
11 monthly invoices for wholesale purchases and sales of
12 capacity, energy, and TCCs for Con Edison and its
13 affiliates, O&R and RECO. From December 1998 to
14 August 2008, I was employed by Consolidated Edison
15 Energy, Inc. ("Con Edison Energy") where I was most
16 recently the Director of Asset Management. My
17 responsibilities included management of the business
18 aspects of the generating facilities owned by
19 Consolidated Edison Development, Inc. ("Con Edison
20 Development") in New England and other generating
21 facilities with whom Con Edison Energy had contracts.
22 This included day-to-day scheduling, fuel procurement,

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 electricity market sales and planning, and associated
2 regulatory and accounting matters. From September
3 1987 to December 1998, I was employed by Con Edison in
4 various positions of increasing responsibility.

5 Q. Briefly state your educational background.

6 A. I received a Bachelor of Science degree and a Master
7 of Science degree in Nuclear Engineering from
8 Rensselaer Polytechnic Institute in May 1986 and
9 September 1987, respectively.

10 Q. Have you previously testified before the New York
11 Public Service Commission ("Commission" or "PSC")?

12 A. Yes. I have testified before the Commission in Cases
13 09-E-0428, 13-E-0030, 16-E-0060, 16-G-0061, 19-E-0065,
14 and 19-G-0066.

15 **PURPOSE OF TESTIMONY**

16 Q. What is the purpose of your testimony in this
17 proceeding?

18 A. I describe Con Edison's historical and projected
19 wholesale electric supply purchases for the Company's
20 full service customers. Historical supply purchases
21 cover the period from January 2016 through December
22 2020 and projected supply purchases cover the period

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 from January 2022 through December 2026, which
2 includes the rate year. This section of the testimony
3 also describes the Company's efforts to minimize
4 supply costs to customers.

5 I also discuss seven capital projects and one
6 operations and maintenance ("O&M") program the Company
7 plans to implement to support Electricity Supply and
8 Energy Management's forecasting and planning needs .

9 **HISTORICAL SUPPLY COSTS**

10 Q. What are the Company's objectives when purchasing
11 electric supply for its full service customers?

12 A. The Company seeks the lowest reasonable electric
13 purchase costs for its customers, subject to
14 reliability and contractual constraints. As part of
15 this objective, the Company also seeks to mitigate
16 price volatility.

17 Q. In what ways does the Company accomplish these
18 objectives?

19 A. The Company also pursues structural and tariff changes
20 in the NYISO's wholesale electric markets that are
21 beneficial to the Company's customers through active
22 participation in the NYISO governance process and

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 through filings with the Federal Energy Regulatory
2 Commission ("FERC"). Where appropriate, the Company
3 pursues certain matters before FERC through
4 litigation, settlement and mediation conferences, and
5 the filing of comments and petitions in an effort to
6 obtain just and reasonable wholesale electric prices
7 for its customers. I discuss these efforts later in
8 my testimony.

9 Q. Please describe, in general terms, how Con Edison
10 procures electric supply for its full service
11 customers.

12 A. Electric energy and capacity are obtained from four
13 main sources: Brooklyn Navy Yard ("BNY"); Con
14 Edison's own steam-electric generation; Con Edison's
15 Request for Proposal ("RFP") Auctions for physical and
16 financial products; and purchases made from the
17 NYISO's energy, capacity, and ancillary services
18 markets. The Company also uses financial hedges to
19 mitigate price volatility for its customers.

20 Q. I show you a one-page document entitled, "CONSOLIDATED
21 EDISON COMPANY OF NEW YORK, INC. - WHOLESALE
22 ELECTRICITY SUPPLY COSTS - CALENDAR YEARS 2016 THROUGH

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 2020," and ask whether it was prepared under your
2 supervision and direction?

3 A. Yes.

4 MARK FOR IDENTIFICATION AS EXHIBIT (ES-1)

5 Q. What does Exhibit (ES-1) show?

6 A. Exhibit (ES-1) illustrates the costs from January 1,
7 2016 through December 31, 2020 for energy, capacity,
8 and other services acquired on behalf of the Company's
9 full service customers. This exhibit shows a slight
10 increase in the volume of the Company's total energy
11 supplied, which is primarily due to customers
12 migrating from retail access to full service.

13 Q. Please describe the Company's firm supply contracts.

14 A. As noted in Exhibit (ES-1), about 1,300 MW
15 (approximately 17% of the Company's capacity supply)
16 and almost 1.9 million MWh (approximately 9% of the
17 Company's energy supply) were provided by the
18 Company's firm contracts in 2020. The decrease in the
19 Company's firm energy and capacity supply is due to
20 the expiration of most of the long-term firm contracts
21 over the past several years.

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 Q. Please describe the supplies from the Company's steam-
2 electric generation.

3 A. As noted in Exhibit (ES-1), the Company's steam-
4 electric generation facilities provided 679 MW
5 (approximately 9% of the Company's capacity supply)
6 and over 3.0 million MWh (approximately 14% of the
7 Company's energy supply) in 2020.

8 Q. Please describe the Company's short-term purchases.

9 A. The Company's short-term energy purchases are made
10 from the NYISO, primarily in its day-ahead market, but
11 also from its real-time market. The NYISO prices
12 energy in both of those markets at eleven different
13 load zones. About 85% of Con Edison's customer
14 consumption is in NYISO's Zone J, the New York City
15 ("NYC") load zone. The remainder is located in NYISO
16 Zones H (Millwood) and I (Dunwoodie).

17 The Company also makes short-term capacity
18 purchases from the NYISO's capacity market auctions.
19 The NYISO administers four capacity market areas: one
20 for NYC, one for Long Island, one for Lower Hudson
21 Valley ("LHV"), and one for rest-of-state ("ROS").
22 The majority of Con Edison's capacity obligations are

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 in NYISO's NYC market; the remainder are in the
2 NYISO's LHV and ROS markets. The NYISO conducts
3 auctions that allow load serving entities ("LSEs"),
4 like Con Edison, to purchase capacity for a one-month
5 period or for periods of up to six months. The NYISO
6 supplies any LSE with capacity obligations not met by
7 the sum of contract purchases and purchases made in
8 these "strip" or monthly auctions with the additional
9 needed capacity from spot, or reconciliation, auctions
10 that the NYISO conducts on a monthly basis. Prices in
11 each of these spot auctions are set at the
12 intersection of a demand curve, which the NYISO's
13 governance processes administratively establishes and
14 FERC approves, and the supply offer curve. One aspect
15 of the spot auction is that it is a single clearing
16 price auction, which means that all supply offers in
17 NYISO's spot auction that are below the intersection
18 of the administrative demand curve and the supply
19 offer curve receive the spot market clearing price.
20 The NYISO demand curve results in purchases in excess
21 of reliability requirements, and it is typical for
22 more capacity to be available for sale than is

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 required to be purchased. Such excess capacity is
2 purchased by NYISO on behalf of the LSEs, which are
3 obligated by the NYISO tariff to pay their allocated
4 share of such "excess capacity."

5 Q. Please describe the Company's financial hedging
6 practices.

7 A. The Company uses financial hedge products to mitigate
8 the volatility of its short-term purchases. Products
9 include fixed-for-floating price swaps, also known as
10 contracts for differences ("CFDs"), and options. CFDs
11 are typically traded on a "5x16" basis, meaning their
12 value is computed over the 16 peak hours (7 AM to 11
13 PM, prevailing time) on non-holiday weekdays. CFDs
14 may also be traded on an "around the clock" basis,
15 priced at the arithmetic average of all 24 hours in a
16 day.

17 Options typically provide a financial benefit to
18 the option holder when the contracted parameters, such
19 as short-term price, temperature, or both, exceed
20 prior agreed-upon thresholds. The premiums or
21 purchase costs of such options are related to the
22 volatility of the underlying product, the length of

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 time prior to delivery, and the agreed-upon strike
2 price and/or temperature threshold.

3 Q. What has been the impact of the Company's hedging
4 program?

5 A. Exhibit (ES-1) identifies the net impact of the
6 Company's financial hedging from 2016 through 2020,
7 including the cost of those hedges. The exhibit shows
8 that the Company's hedging practices stabilized
9 wholesale supply prices for customers, which is the
10 objective of the program. In accordance with the
11 PSC's August 28, 2006 *Order Instituting Proceeding and*
12 *Soliciting Comments* and its April 19, 2007 *Order*
13 *Requiring Development of Utility Specific Guidelines*
14 *for Electric Commodity Supply Portfolios and*
15 *Instituting a Phase II to Address Longer-Term Issues*
16 in Case 06-M-1017, the Company maintains a supply
17 portfolio that is hedged, but not 100% hedged, for its
18 residential and smaller commercial customers, and
19 meets with Commission Staff at least once a year to
20 review its hedging performance and plans.

21

22

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 DECEMBER 2022 through DECEMBER 2026," and ask whether
2 it was prepared under your supervision and direction?

3 A. Yes.

4 MARK FOR IDENTIFICATION AS EXHIBIT (ES-3)

5 Q. What does Exhibit (ES-3) show?

6 A. Exhibit (ES-3) sets forth my projections of
7 electricity supply costs from January 2022 through
8 December 2026, based upon the forecast of full service
9 sendout provided to me by the Company's Electric
10 Forecasting Panel.

11 Q. Please describe the methodology used to develop these
12 projections.

13 A. As noted earlier, capacity and energy are supplied
14 from four major categories: the BNY contract, steam-
15 electric generation, the Company's RFP Auctions, and
16 short-term purchases from NYISO.

17 Firm contract capacity and energy costs were
18 projected based on existing contract terms. Natural
19 gas price projections were based on September 2021
20 NYMEX Natural Gas forward prices.

21 Steam-electric generation costs were projected
22 using the GE Maps cost optimization model. These

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 projections reflect the decreased capacity provided by
2 the Company's steam-electric generation as a result of
3 the planned retirement of various peaking units under
4 the Company's plan filed in compliance with the DEC
5 NOx Rule.

6 Steam sendout projections and fuel price
7 forecasts were input into GE Maps, which models the
8 operating characteristics of the Company's steam-
9 electric units. The natural gas prices and
10 "differentials" were based on the Wood-Mackenzie
11 forecasts. The Wood-Mackenzie forecast information
12 provided is proprietary and governed by
13 confidentiality provisions under the contract
14 provisions of the Company's subscription. Wood-
15 Mackenzie is a research and consulting firm that
16 provides commercial analysis and strategic advice for
17 the global energy, metals and mining industries.
18 Natural gas "basis differentials," reflecting the cost
19 of interstate transportation from Henry Hub to Transco
20 Zone 6 (NYC), were then applied to the natural gas
21 prices. This delivered cost of natural gas was then
22 increased to reflect the cost of taxes on generation

IVAN KIMBALL - ELECTRICITY SUPPLY
CONSOLIDATED EDISON Co. of NY

1 fuel, yielding the natural gas price forecast. Wood-
2 Mackenzie provided these forecasted natural gas basis
3 differentials. The fuel oil forecasts - for the small
4 amount of oil our plants burn for reliability reasons
5 were based on a number of components that take into
6 account historical prices and the relationship between
7 different types of fuel oil (Platts) and NYMEX forward
8 pricing (CME Group). This delivered cost of fuel oil
9 was then increased to reflect the cost of taxes and
10 shipping and handling, yielding the final, delivered
11 fuel oil price forecast. Based on the modeled
12 dispatch of the steam-electric units and a projected
13 allocation of costs from Steam Operations for
14 "processing charges," such as water, chemicals, and
15 labor, the costs and volumes of energy available for
16 electric supply were determined, as summarized on
17 Exhibit (ES-3).

18 Q. Please continue with your description of Exhibit
19 (ES-3).

20 A. Short-term capacity purchase costs are based on the
21 NYISO's projection of capacity supply margins in the
22 NYC, LHV, and ROS regions; the application of these

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1 margins to expected demand curve parameters to project
2 prices; and then the application of these prices to
3 the Company's expected short-term capacity
4 requirements in the NYC, LHV, and ROS regions. Excess
5 capacity costs purchased by the NYISO and allocated to
6 LSEs, as described earlier, are also included in these
7 cost projections.

8 Short-term energy costs are based on market
9 values as of September 30, 2021. These price
10 projections are then applied to the forecast of full
11 service volumetric requirements as provided to me by
12 the Company's Electric Forecasting Panel, after
13 deducting energy projected to be supplied from firm
14 contracts and steam-electric generation.

15 Q. Please continue with your description of costs in
16 Exhibit (ES-3).

17 A. To mitigate the need for short-term purchases and the
18 associated price volatility of short-term purchases,
19 the Company has implemented multiple requests for
20 proposals ("RFPs") for physical and financial supply.
21 Through multiple RFPs conducted in 2021, the Company
22 purchased from counterparties up to 350 MW of around-

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1 the-clock NYISO Zone J (New York City) financial
2 energy consisting of natural gas price-indexed
3 products; through additional RFPs conducted in 2021,
4 the Company purchased up to 800 MW of NYC and LHV
5 unforced capacity ("UCAP") consisting of both
6 financial and physical fixed priced capacity. The
7 Company administered the RFPs through online auctions
8 for energy products for each of the three calendar
9 year terms from 2022 through 2024, and capacity
10 products for one-year terms for each of the three
11 capability years commencing May 2022, May 2023, and
12 May 2024.

13 Q. Has the net impact of the RFPs been included in these
14 projections?

15 A. Yes, the net impact is included in the costs of the
16 firm contracts on the exhibit.

17 Q. How does the Company plan to use the RFP process going
18 forward?

19 A. The Company plans to conduct additional RFPs for both
20 energy and capacity up to three years forward into the
21 future. The RFPs will complement the financial hedges
22 in the Company's hedge plan. This will allow the

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1 Company to further diversify its portfolio to mitigate
2 wholesale supply price volatility to our customers.

3 Q. Has the net impact of financial hedges been included
4 in these projections?

5 A. Hedges have been assumed to be "at the money," thereby
6 not affecting customers' prices for the purposes of
7 these cost projections. However, financial hedges
8 command premiums for reducing buyers' risks and so
9 would be expected to increase costs marginally over
10 the long term.

11 **SUPPLY COST SAVING INITIATIVES**

12 Q. What efforts does the Company undertake to minimize
13 supply costs to customers?

14 A. The Company tries to minimize supply costs by working
15 to reduce the administrative costs of running its
16 RFPs, representing customer interests in regulatory
17 proceedings, and advocating for proposals that would
18 reduce supply costs.

19 Q. What efforts did the Company undertake to reduce the
20 administrative costs of running its RFPs?

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1 A. Since mid-2018, the Company has used a third-party RFP
2 auction platform administered in-house at a
3 significantly reduced cost over its prior vendor.
4 Additionally, since 2020, the Company has conducted
5 multiple RFP auctions for both energy and capacity
6 supply throughout the year as opposed to a single
7 energy auction and a single capacity auction. The
8 multiple RFP auctions can help reduce supply costs to
9 customers by taking advantage of dollar-cost averaging
10 and generating more competitive offers by reducing the
11 volume of each auction.

12 Q. What regulatory efforts has the Company undertaken to
13 minimize supply costs to customers?

14 A. A primary objective of the Company is to actively
15 promote customers' interests by advocating for the
16 adoption of wholesale market rules that maintain
17 reliability and resilience, align with State policy
18 goals, and create fair and competitive market prices
19 for all customers, including the Company's full
20 service customers. The Company aggressively pursues
21 NYISO market structure and tariff changes that are

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1 beneficial to its customers through active
2 participation in the NYISO's governance processes and
3 in FERC proceedings.

4 Q. Please give some examples of the Company's efforts in
5 these NYISO governance processes and FERC proceedings.

6 A. Con Edison has been active in promoting rules that
7 create fair and competitive wholesale markets. For
8 example, the Company actively participates in the
9 NYISO's Demand Curve Reset process. The Company's
10 engagement in the 2021 Demand Curve Reset process
11 culminated in FERC's approval of new capacity market
12 reference prices in April 2021 that will lead to
13 significant capacity supply cost reductions for our
14 customers. The Company also supported a revised
15 optimization methodology for determining Locational
16 Capacity Requirements, which included a Transmission
17 Security Screen to provide for reliability protection
18 in the NYC load zone. FERC approved the methodology
19 in 2018. In addition, the Company continues to
20 advocate for the implementation and maintenance of
21 supply-side market mitigation measures necessary to

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1 prevent the influence of market power on electric
2 prices. Con Edison has also advocated for fair
3 participation rules for new technologies in the NYISO
4 markets. For example, the Company has been heavily
5 engaged in projects relating to the integration of
6 energy storage resources and distributed energy
7 resources ("DER"). Working collaboratively with the
8 Joint Utilities, the Company continues to meet with
9 the NYISO and NYISO stakeholders to address
10 operational issues across the bulk and distribution
11 system to allow for the efficient integration of these
12 technologies into the NYISO's markets. The new rules
13 went into effect in May 2020 for energy storage and
14 are scheduled to go into effect by the end of this
15 year for DER wholesale market participation through an
16 aggregator. Con Edison also participates actively in
17 NYISO projects and proceedings and secures changes
18 that benefit customers.

19 In addition, the Company has long advocated for
20 the need to reform capacity market rules to
21 accommodate state policy resources. Such reforms will
22 remove barriers to the participation of generation

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1 resources receiving state subsidies, such as renewable
2 energy and storage, in the NYISO capacity markets
3 caused by the application of Buyer Side Mitigation
4 ("BSM") rules. The Company advocated for and
5 supported a package of reforms that the NYISO filed at
6 FERC in Docket No. ER22-772-000 on January 5, 2022.
7 The reform package eliminates BSM applicability to
8 state-sponsored resources, enabling those resources to
9 receive capacity market revenues while also improving
10 capacity accreditation rules. This will ensure that
11 capacity payments received by resources are
12 commensurate with their contributions to reliability.
13 The reform package, once approved by FERC, will
14 maintain appropriate market signals to incent needed
15 clean generation while reducing customer costs.

16 Additionally, the Company advocated for a
17 reasonable Operational Base Flow protocol to be used
18 at the seam between NYISO and PJM Interconnection,
19 L.L.C. ("PJM") in absence of the historical 1,000 MW
20 wheel. FERC ruled in favor of the Company and New
21 York customers, preventing the allocation of
22 transmission expansion costs from PJM to NYISO. These

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1 issues continue to be litigated, and the Company
2 continues to actively work to protect customers from
3 allocation of these costs.

4 The Company actively participates in the Budget
5 and Project Prioritization process at the NYISO to
6 influence the types of projects that the NYISO will
7 work on from year to year.

8 Similarly, the Company actively reviews formula
9 rate updates for previously approved bulk transmission
10 projects to which its customers are allocated costs.

11 Finally, the Company assumes leadership roles
12 within NYISO stakeholder groups and industry-wide
13 organizations.

14 Q. What proposals does the Company advocate for that
15 would reduce supply costs to customers?

16 A. As the Company has explained in comments to the
17 Commission regarding new initiatives to help meet the
18 State's Renewable Portfolio Standards goals, Con
19 Edison supports utility ownership of clean energy
20 facilities over power purchase agreement ("PPA")
21 arrangements. Utility ownership will result in lower
22 supply costs to our customers than PPAs would due to

1 the ability to capture the continuing benefits of the
2 clean energy facilities for our customers over the
3 life of the facilities instead of ending at the
4 expiration of the PPAs.

5

6

SYSTEM ENHANCEMENTS

7 Q. Please describe the Electricity Supply IT Systems.

8 A. Energy Management is responsible for forecasting
9 electric peak demand, annual volumes, and annual
10 revenues; electric resource analysis, performing daily
11 scheduling, hedging requirements, and operations to
12 serve the Company's customers; performing Metering
13 Authority functions with the NYISO; and performing
14 energy and capacity reconciliation with the NYISO. As
15 such, the Company needs to upgrade or expand existing
16 software systems and develop new applications to
17 perform the foregoing forecasts, functions, and
18 reporting to the NYISO.

19 Q. Do these systems require capital enhancements and
20 related O&M support costs during the rate period?

21 A. Yes. There are seven IT system enhancements needed to
22 support Electricity Supply and Energy Management's

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1 forecasting and planning needs. The Company estimates
2 that it will incur total capital installation costs
3 for these systems of \$6.8 million in Rate Year 1
4 (calendar year 2023), \$3.8 million in Rate Year 2
5 (calendar year 2024) and \$4.6 million in Rate Year 3
6 (calendar year 2025).

7 Q. Are there incremental O&M costs associated with these
8 seven capital projects after they are put in service?

9 A. Yes, ongoing maintenance and license fees are expected
10 to increase to maintain these capital systems after
11 they are in production. The total incremental O&M for
12 these seven projects is: \$0.22 million in Rate Year 1,
13 \$0.37 million in Rate Year 2, and \$0.47 million in
14 Rate Year 3. Please refer to Exhibits (IT-2), (IT-4),
15 and (IT-5), which detail each of the seven projects.

16 Q. What are the drivers behind the need for these system
17 enhancements?

18 A. There are three primary drivers for the system
19 enhancements.

20 (1) Recent policies such as the Climate Leadership
21 and Community Protection Act ("CLCPA") and Local
22 Law 97 have significantly increased the

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1 importance of the utility planning process and,
2 therefore, have increased the need for accuracy
3 of short-, medium- and long-term forecasting for
4 the electric, gas, and steam systems. In support
5 of the CLCPA goals and technology enhancement,
6 the Energy Management organization must be
7 prepared to leverage and factor into its planning
8 the capabilities of clean energy technologies,
9 including electric vehicles ("EVs"), heat pumps,
10 battery storage, electric appliances (stovetops,
11 hot water heaters, and clothes dryers), and solar
12 photovoltaic ("PV") panels.

13 (2) The Company needs to be able to support changes
14 in the makeup and operation of the electricity
15 markets. These changes include support for DER,
16 including electric storage and other intermittent
17 assets that can be modeled and dispatched on a
18 network level.

19 (3) The need for enhanced data analytics around
20 advanced metering infrastructure ("AMI") can help
21 reduce uncertainty and provide a higher level of
22 confidence in the summer peak demand, winter peak

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1 demand, and annual delivered volume forecasts for
2 Con Edison electric.

3 Collectively, these projects will help enhance the
4 variety of reporting, analytics, and forecasting that
5 the Energy Management organization performs to support
6 the forecasting and procurement of electricity.

7 Q. Please briefly describe the first capital project, AMI
8 Business Analytics, and its benefits and
9 justification.

10 A. The goal of this project is to design and deploy a
11 suite of data analytics use cases to assess customer
12 load profiles and patterns while leveraging the
13 Company's AMI data, as well as other internal and
14 external data sources. This integrated application
15 will allow the Company to gain predictive insight into
16 specific customer trends, reconciliation of weather
17 adjusted peaks of the gas and electric systems, and
18 uptake of load modifiers. It also will help the
19 system planning process, which is designed to identify
20 current and future operating requirements, risks, and
21 potential solutions to provide safe, reliable, and
22 resilient systems. The use cases for this project

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1 include: Use Case 1: Electric Vehicle and Chargers
2 Load Profiles; Use Case 2: Heat Pumps; Use Case 3:
3 Battery Storage; Use Case 4: New Business Ramp Up; Use
4 Case 5: New Business Load Density; and Use Case 6: Gas
5 Load Distribution of Interruptible Customers. Please
6 refer to Exhibit (IT-5) for the details of this
7 project.

8 Q. Please briefly describe the second capital project, Con
9 Edison REV/DER/EEDM Forecasting Tool, and its benefits
10 and justification.

11 A. In 2020, the Energy Management organization hired a
12 vendor to design, build, and deploy the Con Edison
13 REV/DER forecasting application, containing
14 forecasting modules for electric storage and for
15 electrification of heat. In 2023, the Company is
16 looking to continue its engagement with the vendor to
17 enhance the analytics and tools used to forecast three
18 more electric load modifiers that are undergoing
19 significant changes in the coming years. The modules
20 covered in this proposal are: EVs; Combined Heat and
21 Power Distributed Generation installations ("DG/CHP");
22 and Solar PV installations. Additionally, the

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1 application will cover the 20-year electric forecasts
2 for EVs, DG/CHP, and PV panels, and will be performed
3 for Con Edison's electric service territory,
4 specifying DER effects on: Electric System Annual
5 Delivered Volume; Electric System Annual Billable
6 Demand; and Peak load at Electric System Summer and
7 Winter Peak Hours.

8 The evolving energy landscape has increased in its
9 complexity. This application software will reduce
10 this uncertainty and provide a higher level of
11 confidence in the summer peak demand, winter peak
12 demand, and annual delivered volume forecasts for Con
13 Edison electric. This application will enhance the
14 Company's ability to implement these modifiers in
15 specific locations. Such forecasts are essential for
16 reliability planning, capital planning, budget
17 management and bill impact modeling, and rate design.
18 Please refer to Exhibit (IT-4) for the details of this
19 project.

20 Q. Please briefly describe the third capital project,
21 Forecasting Services Compliance with Market Changes

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1 and MetrixIDR Upgrades, and its benefits and
2 justification.

3 A. Metrix IDR is an application that produces the daily
4 electric and steam hourly load forecasts. The
5 Company's System Operation department relies on these
6 forecasts to plan daily operations and the Company's
7 Commodity Procurement and Scheduling department uses
8 it to plan short-term electric purchasing and
9 generation scheduling. The objectives of this project
10 includes the following enhancements:

- 11 • Upgrade MetrixIDR to the latest version.
- 12 • Develop and implement new forecast models for
13 CLCPA planning.
- 14 • Integration of additional meters for new networks
15 and feeders as well as 5-minute forecasts for
16 electric feeders and networks.
- 17 • Development of associated model performance
18 reports and statistics.
- 19 • Integration of multiple weather vendors.
- 20 • Implementation of an interface with the
21 Enterprise Data Analytics Platform to provide
22 selected customer group forecasts.

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- 1 • Integration of ConnectDER with MetrixIDR to
2 collect actual and forecasted solar production
3 data for regions.
- 4 • Integration of MetrixIDR with NYISO notifications
5 for transmission line and generation outages,
6 wind, and solar forecast to better forecast zonal
7 pricing.

8 Please refer to Exhibit (IT-2) for the details of this
9 project.

10 Q. Please briefly describe the fourth capital project,
11 NYISO - PJM Energy and Capacity Daily Reconciliations
12 - Transmission Owner Data Reporting System ("TODRS"),
13 and its benefits and justification.

14 A. TODRS liaises between wholesale and retail markets,
15 reconciling small retail meters with market
16 settlements at the Independent System Operators
17 ("ISOs") (i.e., NYISO and PJM). Because the markets
18 change continuously, these changes trigger
19 modifications on the existing code, require building
20 of new TODRS Structure Query Language code, and the
21 addition of new interfaces with all billing and
22 customer information systems around the Company and

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1 external ISOs. Because of these changes, it is
2 challenging to anticipate the market's next changes
3 and how it will directly impact TODRS. In the last
4 few years alone, the Company needed to make the
5 following changes to TODRS: Value Stack or Value of
6 Distributed Energy Resources (VDER) program, New York
7 State Energy Research and Development Authority report
8 requirements to calculate Zero-Emissions Credits
9 (ZEC), Street Lighting software interface, and use of
10 new AMI metering data.

11 This project addresses anticipated market changes,
12 regulatory policies, and system requirements that will
13 require enhancements to TODRS. This project will
14 assist the Company in meeting market changes to
15 improve market transparency and accuracy with Retail
16 Access participants/Energy Service Companies and other
17 market participants, and to continuously improve
18 forecasting performance. Please refer to Exhibit (IT-
19 2) for the details of this project.

20 Q. Please briefly describe the fifth capital project,
21 Strategic Analytics - As Billed - Revenue Analytics
22 (SARA), and its benefits and justification.

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1 A. Currently, the Energy Management organization uses
2 multiple sources to obtain the information required to
3 perform monthly variance analysis of volumes and
4 revenues and to generate forecasts. Employees reach
5 out to several departments and manually pull data from
6 many different Company systems. These processes are
7 time consuming and potentially prone to error. The
8 proposed solution is to the develop a single and
9 complete source of enterprise data used to support
10 customer, sales, and revenue analytics that the
11 Company will house in a user-friendly system that can
12 automate the collection of critical data from across
13 the Company's systems, automate the reconciliation
14 process, and simplify and expedite the forecasting
15 process. This project also will include exploring the
16 potential use of AMI data to improve forecasting
17 accuracy. Some of the expected key benefits of the
18 project include:

- 19 • A more in-depth understanding of customer usage
20 patterns and better impact analysis reporting for
21 making decisions at the service class and customer
22 level.

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- 1 • Enhancing data flow and analytics transparency
2 across the Company and developing new insights from
3 improved analytic capabilities, as opposed to data
4 gathering.
- 5 • Improving the tracking and reporting of bill
6 components and the accuracy and timeliness of
7 monthly, quarterly, and annual revenue reporting
8 process.
- 9 • Reducing data error that will lead to greater
10 forecast accuracy and have downstream positive
11 benefits for finance, accounting, and operations. A
12 more accurate forecast will lead to less under-
13 purchasing or over-purchasing of commodities on
14 same-day energy needs.
- 15 • Improving access to customer usage data across more
16 dimensions will allow more granular analysis to
17 determine potential impact of certain scenarios
18 (e.g., COVID, network issues).

19 Please refer to Exhibit (IT-2) for the details of this
20 project.

21 Q. Please briefly describe the sixth capital project,
22 Replace nMarket to Avoid Lapses in ISO Transactions

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1 and Accommodate Electric Storage and Other REV-DER
2 Resources, and its benefits and justifications.

3 A. Presently, Energy Management uses nMarket, which is an
4 electricity nomination and scheduling system. It
5 provides functionality to manage a participant's
6 transactions, public settlements, and invoices with
7 the ISO. These functions typically represent in
8 excess of a billion dollars in transactions annually,
9 but can be much higher depending on the market price
10 of energy. The software the Company uses was once the
11 industry leading software for ISO communications.
12 However, after multiple corporate acquisitions and
13 strategic decisions, the product is no longer adequate
14 to address the Company's needs to adapt to a rapidly
15 changing energy marketplace. At the same time, Energy
16 Management's needs are growing, and the Company needs
17 a product that can support the bidding of grid scale
18 batteries and other DER in the near term for proper
19 implementation of regulatory mandated programs. As
20 such, the Company needs a product that can support the
21 bidding of grid scale batteries and other DER in the
22 near term for proper implementation of regulatory

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1 mandated programs. The current system is not able to
2 meet these requirements. These developments will add
3 complexity to Commodity Procurement and Scheduling's
4 physical wholesale business requirements, creating the
5 need to replace the existing nMarket System. This
6 project will replace the nMarket System and utilize an
7 alternative software solution to support Commodity
8 Procurement and Scheduling's physical wholesale
9 business requirements, which consist of the following:

- 10 • Electricity purchasing, scheduling and invoicing.
- 11 • Utilize and monetize electric storage assets in
12 ISO energy, capacity and ancillary markets.
- 13 • Regulatory and SOX compliance.
- 14 • Interfacing with other internal systems.

15 Please refer to Exhibit (IT-4) for the details of this
16 project.

17 Q. Please briefly describe the seventh capital project,
18 ISOs Revenue Metering validation and reporting
19 software phase 1 and phase 2, and its benefits and
20 justification.

21 A. The objective of this project is to enhance and
22 upgrade Metering Authority software, which will aid in

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1 the rehabilitation, consolidation, standardization,
2 and streamlining of O&R's and Con Edison's Metering
3 Authority functions. The software will perform the
4 daily and repetitive manual functions of collecting,
5 validating, and reporting energy demand data to the
6 NYISO and PJM from transmission revenue class meters
7 located at transmission ties with neighbor utilities
8 and local generating stations. The costs associated
9 with this project are only for Con Edison's portion of
10 this project. The enhancement will allow the Company
11 to adapt the reporting process to suit the needs of
12 the market and provide reports of settled market data
13 to various departments of the Company. This, in turn,
14 will benefit market participants by improving the
15 accuracy of financial settlements because transactions
16 will be more transparent and will allow for Company
17 personnel to readily troubleshoot and resolve metering
18 issues reported by generating companies and
19 neighboring utilities. The vendor software will
20 provide an enterprise solution across both Con Edison
21 and O&R that will allow for synergies across the
22 companies and allow for business continuity. In

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1 addition, it will enable the analysts to focus on
2 other issues that arise related to this function, for
3 example: follow-up on repairs, investigate meter
4 challenges, transmission loss estimations, and work on
5 new interconnections. Please refer to Exhibit (IT-2)
6 for the details of this project.

7 Q. Does this conclude your testimony?

8 A. Yes.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

TABLE OF CONTENTS

| | Page |
|------------------------------------------------------|-------------|
| I. INTRODUCTION | 1 |
| II. PURPOSE AND SUMMARY OF TESTIMONY | 4 |
| III. DELIVERY VOLUMES BY SERVICE CLASSIFICATION..... | 7 |
| A. Econometric Models | 8 |
| B. Modeling Periods | 9 |
| C. Independent Variables | 9 |
| D. Model Structure | 11 |
| E. Model Assumptions | 14 |
| F. New York Power Authority Volumes | 22 |
| G. Recharge New York Volumes | 25 |
| H. Demand Side Management Programs | 25 |
| I. Other Volume Adjustments | 27 |
| IV. REVENUE FORECAST | 30 |
| A. Non-Competitive Revenues | 31 |
| B. Competitive Revenues | 33 |
| C. NYPA Revenues | 34 |
| D. Other Revenues | 36 |
| V. SENDOUT FORECAST | 37 |
| VI. FORECAST SUMMARY | 39 |

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 I. INTRODUCTION

2 Q. Would the members of the Forecasting Panel please state
3 their names and business address?

4 A. John Catuogno, Hock G. Ng, and Leanne M. Attanasio, 4
5 Irving Place, New York, New York 10003.

6 Q. By whom are you employed, in what capacity, and what are
7 your professional backgrounds and qualifications, and
8 current responsibilities?

9 A. **(Catuogno)** We are employed by Consolidated Edison
10 Company of New York, Inc. ("Con Edison" or the
11 "Company"). I am the Director of Energy Management's
12 Commodity Forecasting Department. I graduated from
13 Polytechnic University with a Bachelor of Science degree
14 in Mechanical Engineering in 1991 and with a Master of
15 Science degree in Management in 2002. I have also
16 completed the Siemens PTI power system transmission
17 course/certification.
18 I am a licensed Professional Engineer in the State of New
19 York and an Adjunct Assistant Professor in the Mechanical
20 Engineering Department of Manhattan College, where I
21 present graduate lectures on energy and sustainability.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 I joined Con Edison in 1991 as a Management Intern and
2 have held various positions of increasing responsibility
3 in the Fossil Power, Nuclear Power Engineering, Steam
4 Operations, and Energy Management Organizations. Since
5 December 2013, I have been the Director of Energy
6 Management's Commodity Forecasting Department. My
7 responsibilities include oversight of daily peak, annual
8 peak, monthly/annual energy revenue and volume forecasts
9 for the electric, gas, and steam systems; electric
10 resource planning; and technical and analytical support
11 for long range plans, strategies, and industry trends and
12 issues that affect the Company.

13 **(Ng)** I am the Section Manager of Electric Forecasting in
14 Energy Management. I graduated from the University of
15 Western Australia with a Bachelor of Economics degree in
16 1983. I also received a PhD degree in Economics in 1992
17 from Stanford University. Prior to joining Con Edison, I
18 taught and performed research in economics and
19 econometrics at various universities. In 2005, I began
20 my employment with Con Edison as a Senior Planning
21 Analyst in Corporate Accounting. In April 2018, I was
22 promoted to my current position in Energy Management. My
23 responsibilities include overseeing the development of

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ELECTRIC FORECASTING PANEL

1 the electric delivery volume and revenue forecast. I
2 have also co-authored two articles dealing with forecast
3 modeling issues that have been published in the
4 International Journal of Forecasting, and Systems
5 Analysis Modeling Simulation.

6 **(Attanasio)** I am a Senior Planning Analyst in the
7 Electric Forecasting Section in Energy Management. I
8 received a Bachelor's degree in Economics (Honors
9 Program) from Ateneo de Manila University in 1998. I
10 received a Master of Arts degree in Economics in 2008 and
11 a Doctorate in Economics in 2010, both from Fordham
12 University. I also hold the Chartered Financial Analyst®
13 designation. Prior to joining Con Edison, I taught
14 Economics and Statistics at Fordham and also managed the
15 University's Master of Arts Program in International
16 Political Economy and Development. Other positions I
17 have held in the past involved derivatives trading and
18 macroeconomic forecasting. In 2013, I joined Con Edison
19 in an Analyst position as an experienced economic modeler
20 and forecaster. I have developed econometric time series
21 models and forecasts for Con Edison and Orange and
22 Rockland.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 Q. Have you previously testified or submitted testimony in
2 any proceedings before the New York State Public Service
3 Commission?

4 A. **(Catuogno)** Yes, I have submitted testimony in Case Nos.
5 21-G-0073, 21-E-0074, 19-E-0065, 19-G-0066, 18-E-0067,
6 18-G-0068, 16-E-0060, 16-G-0061, 13-S-0032, 09-S-0794,
7 09-S-0029, and 07-S-1315.

8 **(Ng)** I have testified in previous electric rate cases,
9 including Cases 13-E-0030, 08-E-0539, and 07-E-0523, and
10 submitted written testimony in Cases 21-E-0074, 19-E-
11 0065, 16-E-0060, 15-E-0050, and 09-E-0428.

12 **(Attanasio)** I have submitted written testimony in Cases
13 19-E-0065 and 18-E-0067.

14 **II. PURPOSE AND SUMMARY OF TESTIMONY**

15 Q. What is the purpose of the Forecasting Panel's testimony?

16 A. The Panel presents the Company's forecast of electric
17 delivery volumes, revenues, and system sendout for
18 October 1, 2021 through December 31, 2025, and discusses
19 the methodologies used to develop these forecasts.

20 Q. What is the difference between delivery volume and
21 sendout?

22 A. Sendout refers to the total amount of electric energy
23 that was sent out by the Company. Delivery volume refers

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 to the amount of electric energy delivered to the
2 customer as recorded at the customer's meter. The latter
3 differs from the former because of line loss in the
4 system.

5 Q. What is the purpose of the delivery volume and sendout
6 forecasts?

7 A. The delivery volume forecast is used to determine the
8 revenue forecast. The delivery volume and revenue
9 forecasts are then used by the Company's Rate Engineering
10 department to determine rates per service class. The
11 sendout forecast is used by Company Witness Kimball to
12 develop the electricity supply cost forecast.

13 Q. What were the actual and normalized delivery volumes for
14 the 12 months ended September 2021?

15 A. The actual CECONY service territory delivery volume for
16 the 12 months ended September 2021 was 50,775 gigawatt
17 hours ("GWh"). The normalized delivery volume for this
18 period was 50,828 GWh. The normalization procedure is
19 detailed in the Company's response to DPS-1-92.

20 Q. Would you please summarize, in aggregate form, your
21 delivery volume forecast?

22 A. The delivery volume forecast for the three months ending
23 December 2021 is 11,936 GWh. The delivery volume

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 forecast for the 12 months ending December 2022 is 51,030
2 GWh. The delivery volume forecasts are 50,858 GWh for
3 the 12 months ending December 2023 ("Rate Year" or
4 "RY1"), 50,474 GWh for the 12 months ending December 2024
5 (which we will refer to as "RY2"), and 49,710 GWh for the
6 12 months ending December 2025 (which we will refer to as
7 "RY3").

8 Q. Would you please summarize, in aggregate form, your
9 delivery revenue forecast?

10 A. The delivery revenue forecasts are \$8,557.6 million for
11 the 12 months ending December 2022, \$8,464.0 million for
12 RY1, \$8,439.6 million for RY2, and \$8,473.0 million for
13 RY3.

14 Q. What is the actual and normalized sendout for the 12
15 months ended September 2021?

16 A. The actual franchise area sendout for the 12 months ended
17 September 2021 was 55,526 GWh. The normalized sendout
18 for the same period was 55,507 GWh.

19 Q. Please summarize your sendout forecasts.

20 A. The sendout forecast for the three months ended December
21 2021 is 12,627 GWh. The sendout forecast for the 12
22 months ending December 2022 is 55,245 GWh. The sendout

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 forecasts are 55,269 GWh for RY1, 54,827 GWh for RY2, and
2 53,786 GWh for RY3.

3 Q. Do you have any exhibits that accompany this testimony?

4 A. Yes, we are presenting nine exhibits, Exhibit ____ (EFP-1)
5 through Exhibit ____ (EFP-9).

6 Q. Were these nine exhibits prepared under the Panel's
7 direction and supervision?

8 A. Yes. We will describe each of these exhibits in the
9 course of our testimony.

10 **III. DELIVERY VOLUMES BY SERVICE CLASSIFICATION**

11 Q. What forecasting methodologies are used to project the
12 electric delivery volumes for each service classification
13 ("SC")?

14 A. The forecasts of delivery volumes for all SCs, except SC
15 5 (Electric Traction Systems), SC 6 (Public and Private
16 Street Lighting), and SC 13 (Bulk Power - Housing
17 Development) are based on econometric models. The
18 forecasts of delivery volumes for SC 5 and SC 6 are
19 performed on a deterministic basis, meaning we assume
20 that delivery volumes remain at their current levels for
21 these two SCs. The only customer in SC 13 is on Standby
22 Service and the forecast for that customer is included as

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 part of the forecast for Standby Service customers, which
2 we discuss in Section III-I.

3 Q. Please explain why the Company uses a different
4 methodology for SC 5 and SC 6.

5 A. SC 5 and SC 6 are small service classifications and their
6 delivery volumes have not changed significantly over
7 time.

8 Q. Are there any other delivery volume forecasts that are
9 not based on econometric models?

10 A. Yes. For commercial customers receiving the Company's
11 Business Incentive Rate ("BIR"), the Company forecasts
12 delivery volumes by extending recent trends. For
13 customers under the Recharge New York ("RNY") program,
14 the Company forecasts the delivery volume ("below-the-
15 allocation") that is exempt from the System Benefits
16 Charge ("SBC") and Renewable Portfolio Standard ("RPS")
17 charge on a deterministic basis. For customers under
18 Standby Service programs (85 existing customers and 12
19 projected new customers), the Company performs an
20 analysis of each individual customer's recent usage.

21 **A. Econometric Models**

22 Q. For which service classes did the Company use econometric
23 models?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. The Company used econometric models to forecast electric
2 delivery volumes for SC 1 (Residential), SC 2 (Small
3 Commercial), SC 8 (Master Metered Apartments), SC 9
4 (Large Commercial), and SC 12 (Multiple Dwelling Space
5 Heating). The Company's modeling periods, independent
6 variables, and model structure are described below.

7 **B. Modeling Periods**

8 The Company developed the SC 12 econometric model on a
9 monthly basis, using data from October 1996 through
10 September 2021. The Company developed all other
11 econometric models on a quarterly basis, using data from
12 the fourth quarter of 1996 through the third quarter of
13 2021. Due to data availability issues, SC 12 had to be
14 modeled with monthly data in the past. We continue to
15 use the same model for SC 12 because it has performed
16 well.

17 **C. Independent Variables**

18 The Company employs four types of independent variables -
19 weather, dummy, mobility, and economic. Weather
20 variables, in terms of heating degree days ("HDD") and
21 cooling degree days ("CDD"), are included in all models
22 to account for delivery variations due to differences in
23 weather conditions.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 Dummy variables are included in the SC 12 model to
2 account for structural breaks in the data. Each dummy
3 variable can take the value of zero or one and is used to
4 indicate the presence of sudden shifts in the level of
5 the data. The inclusion of such a variable allows us to
6 isolate the impact of sudden breaks in the trend of a
7 data series. The mobility variables are ratio variables
8 that proxy for the COVID impact on sales. These are based
9 on the Google mobility data that indicate the
10 proportional deviation of daily customer mobility in
11 segments of the economy relative to a base week in
12 February 2020. Mobility in the residential segment
13 impacts SC 1, 8, and 12; mobility in the rest and
14 recreation segment impacts SC 2; and mobility in the
15 workplace segment impacts SC 9.

16 Economic variables are included in the various models as
17 follows:

- 18 • The SC 2 and SC 9 models, which apply to small and
19 large commercial customers, respectively, include
20 the number of customers in the class, real
21 electric price of the class, which refers to the
22 price of electricity expressed in constant base-
23 year dollars, and private non-manufacturing

ELECTRIC FORECASTING PANEL

1 employment. The private non-manufacturing
2 employment variable has not been seasonally
3 adjusted.

4 • The SC 1 model, which applies to residential
5 customers, includes the real electric price of the
6 class and real disposable income.

7 • The SC 8 model includes the real electric price of
8 the class.

9 **D. Model Structure**

10 Each econometric model consists of two parts: a
11 regression model, which correlates the delivery volume
12 with the set of independent variables selected into the
13 model; and an autoregressive integrated moving average
14 ("ARIMA") model, which is discussed below. The combined
15 model is often referred to as an ARIMAX model in modeling
16 literature, where the letter "X" stands for the set of
17 independent variables included in the model. The ARIMA
18 model can take many different forms, and each model has
19 its own ARIMA structure, statistically determined
20 according to the data pattern of each SC.

21 Q. What is the purpose of including ARIMA as part of the
22 modeling?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. In forecast modeling, the model includes only a few key
2 economic variables, such as real electric price, number
3 of customers, income and/or employment. Although other
4 economic variables may have an effect on electric
5 delivery, they cannot be included in the model because
6 they are not quantifiable, or there are no data available
7 on them. The ARIMA mechanism captures the collective
8 effect of these other variables. In addition, ARIMA also
9 smooths out autocorrelations in the data.

10 Autocorrelation is the situation where the current value
11 of a variable is significantly related to its own values
12 in the recent past. It is frequently present in time
13 series data. If left unaddressed, the presence of
14 autocorrelation leads to high forecast errors.

15 Q. Have you prepared an Exhibit showing the models that you
16 have just described?

17 A. Yes, we have prepared a six-page document entitled
18 "VOLUME FORECASTING MODELS." In the Exhibit, we provide
19 the econometric models used for forecasting delivery
20 volume for SCs 1, 2, 8, 9, and 12, as well as the sendout
21 model.

22 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-1)

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 Q. What criteria are used to measure the accuracy of the
2 econometric models?

3 A. The Company uses generally accepted criteria to measure
4 the accuracy of each model. The Company tests many
5 different model structures for each SC, with variations
6 especially in the structure of the ARIMA part of the
7 model. As was done in Cases 13-E-0030, 16-E-0060, and
8 19-E-0065, we use a Durbin-Watson value near two, a low
9 standard error, and a high R^2 as criteria to select the
10 full econometric model in each SC for forecasting.

11 Q. Have you prepared an Exhibit showing the measures of
12 accuracy you have just described?

13 A. Yes, we have prepared a one-page document entitled
14 "ELECTRIC FORECASTING MODEL STATISTICS." In this
15 Exhibit, we present measures of model performance for SCs
16 1, 2, and 9. These three service classifications are
17 featured in the Exhibit because they account for over 90
18 percent of total Con Edison delivery volumes.

19 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-2)

20 Q. Please explain this Exhibit.

21 A. The Exhibit lists the adjusted R^2 , standard error, and
22 Durbin-Watson statistic of the models for SCs 1, 2, and
23 9. All three statistics satisfy the criteria discussed

ELECTRIC FORECASTING PANEL

1 above, indicating that the models fit the historical data
2 very well.

3 **E. Model Assumptions**

4 Q. Did you consider the impact of climate change on your
5 weather variables?

6 A. Yes. We incorporated the impact of climate change on HDD
7 and CDD by adjusting the normal HDD and normal CDD in the
8 forecast period. Thus, the delivery volume forecasts
9 from the econometric models reflect the impact of climate
10 change.

11 Q. Please describe the adjustments made to the normal CDD
12 and normal HDD to reflect climate change.

13 A. The Company's Climate Change and Vulnerability Study
14 (2019) indicates that "normal" weather is going to be
15 warmer in upcoming years. As such, we adjusted the
16 normal weather in each year of our forecasts using the
17 implied annual rates of change in CDD and HDD from the
18 study. CDD were increased, and HDD were reduced, year to
19 year, by the respective implied annual growth rates. The
20 CDD and HDD were allocated to the months according to the
21 allocations in 2020.

22 Q. You listed the key economic variables used in the
23 forecasting models as private non-manufacturing

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 employment, real electric price, real disposable income,
2 the number of customers in each SC, and mobility. Please
3 explain how the data for private non-manufacturing
4 employment are developed.

5 A. For the historical period, the Company uses the Bureau of
6 Labor Statistics Current Employment Survey ("CES") data
7 for New York City (through September 2021). Because CES
8 employment data for individual counties has been
9 discontinued, data for Westchester is not directly
10 available. The Company uses the methodology proposed by
11 Department of Public Service Staff in pages 13 through 15
12 of its testimony in Case No. 18-E-0067 to construct the
13 employment data for Westchester. Thus, the historical
14 data for Westchester is constructed based on CES data
15 through September 2021 and Quarterly Census of Employment
16 and Wages (QCEW) data through March 2021.

17 Q. How is the forecast for private non-manufacturing
18 employment developed?

19 A. The private non-manufacturing employment forecast is
20 developed using the forecast from Moody's. The Moody's
21 forecast is also used by the New York Independent System
22 Operator and other New York State utilities. The Moody's
23 forecast is developed for New York State as a whole and

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 for individual regions and counties within the State.

2 The Company developed its forecast for New York City by
3 applying the annual growth rates available in the Moody's
4 database in September 2021 (the most current available at
5 the time the forecast was developed) to the CES actuals.

6 The Company developed its forecast for Westchester County
7 by applying the annual growth rates available in Moody's
8 database in September 2021 to the constructed historical
9 data for Westchester.

10 Q. What is Moody's projection based on data through
11 September 2021 for private non-manufacturing employment?

12 A. For the Company's service territory, private non-
13 manufacturing employment is projected to increase by 1.6%
14 in 2021 and by 3.0% in 2022. It is then projected to
15 decline by 0.9% in 2023, by 0.2% in 2024, and by 1.3% in
16 2025.

17 Q. How does the Company develop the forecast for real
18 disposable income?

19 A. We use the forecast for real disposable income provided
20 by Moody's.

21 Q. What is Moody's projection for real personal disposable
22 income?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. For the Company's service territory, Moody's projects
2 that real personal disposable income will decline by 2.1%
3 in 2021 and by 0.2% in 2022. It is then projected to
4 increase by 0.8% in 2023, 2.0% in 2024, and 0.9% in 2025.

5 Q. How is the data for real electric price developed?

6 A. For the historical period, we calculated the nominal
7 electric price for each SC by dividing the total delivery
8 revenue of full service customers in the SC by their
9 delivery volume. We then divided the nominal electric
10 price by a price deflator to obtain the real electric
11 price.

12 Q. What assumption does the model use for the real electric
13 price variable in the forecast period?

14 A. As was done in Cases 16-E-0060 and 19-E-0065, we assume
15 that the real electric price in the forecast period
16 remains at the level it was during the most recent 12-
17 month period, which in this case is the 12 months ended
18 September 2021.

19 Q. Did you account for COVID?

20 A. Yes, through the mobility variable.

21 Q. What is the mobility variable?

22 A. Google has been collecting data to track movement trends
23 by region and across different categories of space (e.g.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 Residential, Rest and Recreation, Workplace, etc.) via
2 mobile phone location. Each mobility variable shows how
3 visitors to (or time spent in) categorized places change,
4 relative to Google's baseline days (the baseline day is
5 the median value from the 5-week period Jan 3 - Feb 6,
6 2020).

7 Q. Why is the mobility variable a reasonable way to account
8 for COVID?

9 A. Because the mobility variables track the variance
10 between mobile phone users' movement pre-COVID and post-
11 COVID, these variables inform the Company on changes in
12 electric usage , by customer group, caused by the
13 pandemic.

14 Q. How is the data for the mobility variable developed?

15 A. Daily Google mobility for each segment (Residential, Rest
16 and Recreation, and Workplace) are available for each of
17 the New York City boroughs and Westchester (Google
18 LLC "*Google COVID-19 Community Mobility Reports*").
19 <https://www.google.com/covid19/mobility/>). We created a
20 single variable for each segment using the number of
21 customers from each borough and Westchester. Billing-day-
22 weighted quarterly and monthly mobility variables are
23 then created for use in the models as appropriate.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 Q. What assumption does the Company use for the mobility
2 variables in the forecast period?

3 A. Based on Moody's Analytics' assumption that the economy
4 will go back to full employment in 2023, we assume that
5 workplace mobility will gradually increase until 2023.
6 However, it will settle at 0.2 lower than the base period
7 from 2023 onwards due to permanent work-from-home (full-
8 or part-time) arrangements for some employees.
9 Similarly, because a certain proportion of the workforce
10 will continue to work from home, residential mobility
11 will remain about 0.05 higher than the base period.
12 Finally, we assume that rest and recreation will return
13 to normal, thus the rest and recreation mobility variable
14 will go down to zero (back to pre-pandemic levels) from
15 2023 onwards.

16 Q. Are the foregoing projections of employment, real
17 disposable income, real electric price, and mobility used
18 as inputs in the forecasting models to generate the Con
19 Edison delivery volume forecasts?

20 A. Yes.

21 Q. Please explain how you developed the customer forecasts
22 for the various service classifications.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. The forecasted number of customers for SCs 1, 2, 8, and 9
2 are based on quarterly ARIMA models, using data from the
3 fourth quarter of 1996 through the third quarter of 2021.
4 The forecasted number of SC 12 customers is based on a
5 monthly ARIMA model, using data from October 1996 through
6 September 2021.

7 The forecasted number of customers for SC 5 and SC 6 are
8 done on a deterministic basis.

9 Q. How does the Company use the customer forecasts?

10 A. The forecasted number of customers in each service class
11 is used to forecast the number of bills, which in turn is
12 used in calculating the competitive delivery revenues,
13 which we will explain later in our testimony.

14 Q. Have you prepared an exhibit showing the ARIMA models
15 used for forecasting the number of customers?

16 A. Yes, we have prepared a five-page document entitled
17 "CUSTOMERS FORECASTING MODELS." In the Exhibit, we
18 provide the ARIMA models used to forecast the number of
19 customers for SCs 1, 2, 8, 9 and 12.

20 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-3)

21 Q. Based upon the foregoing methodologies, what are the
22 projections for customers for SC 1, SC 2, and SC 9?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. We project the number of customers for SC 1, SC 2 and SC
2 9 to grow by the percentages in the table below. These
3 three service classes account for over 99% of the total
4 number of customers.

| | 2021 | 2022 | 2023 | 2024 | 2025 |
|-------------|--------|-------|-------|-------|-------|
| SC 1 | -0.12% | 0.90% | 0.36% | 0.58% | 0.40% |
| SC 2 | 3.55% | 1.69% | 2.38% | 1.53% | 1.85% |
| SC 9 | -0.74% | 0.12% | 0.30% | 0.33% | 0.44% |

5 Q. Are the foregoing customer projections used as inputs in
6 the forecasting models to generate the Con Edison
7 delivery volume forecasts?

8 A. For SCs 2 and 9, these customer forecasts are used as
9 inputs in their respective forecasting models. In
10 addition, customer forecasts for all Con Edison service
11 classes are used to project the number of bills to
12 determine competitive charge revenues, as explained later
13 in our testimony.

14 Q. Have you prepared an exhibit showing the economic
15 assumptions you have described?

16 A. Yes, we have prepared a one-page document entitled
17 "ECONOMIC ASSUMPTIONS." In this Exhibit, we provide

ELECTRIC FORECASTING PANEL

1 projected values of the economic variables during the
2 forecast period.

3 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-4)

4 **F. New York Power Authority Volumes**

5 Q. Are there other delivery volumes that are included in the
6 forecast?

7 A. Yes. We also include New York Power Authority ("NYPA")
8 volumes.

9 Q. Please describe the methodology for forecasting NYPA
10 volumes.

11 A. We developed the NYPA volumes using a combination of
12 methodologies - some items were developed on a
13 deterministic basis and others based on econometric
14 models.

15 For SC 66 (Westchester Street Lighting) and SC 80 (New
16 York City Street Lighting), we forecast delivery volume
17 on a deterministic basis based on recent billing data.
18 We forecast the delivery volume for the development of
19 Hudson Yards based on data provided by Con Edison's
20 Energy Services Department.

21 We used econometric models to forecast the power supplied
22 by Kennedy International Airport Cogeneration ("KIAC") to

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 JFK Airport and to forecast delivery volumes for all
2 other NYPA service classes.

3 Q. Please describe the econometric models used for NYPA.

4 A. The Company developed monthly econometric models for the
5 NYPA service classes and for KIAC. The modeling period is
6 from October 1996 through September 2021. Like CECONY,
7 NYPA models include four types of independent variables -
8 weather, dummy, mobility, and economic. Dummy variables
9 are included in the SC 91 and SC 62 models to account for
10 structural breaks in the data. The other variables impact
11 the NYPA SCs as follows:

- 12 • The SC 91 model, which applies to majority of NYPA
13 customers, includes weather and the mobility
14 variable for the rest and recreation segment.
- 15 • The SC 62 model, which applies to small commercial
16 customers, includes total non manufacturing
17 employment (not seasonally adjusted) for the
18 service territory. Historical data for this
19 variable is constructed similarly as the
20 employment variable used in the CECONY models.
21 Forecasts are also based on Moody's Analytics
22 projections.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 • The KIAC model includes weather and the passenger
2 variable. The passenger variable is a ratio
3 variable, similar to the mobility variables
4 described above, that proxy for the COVID impact
5 on KIAC sales. This variable is based on the
6 paying passenger data, known as revenue passenger
7 data, obtained from the Port Authority of NY/NJ
8 that indicates the proportional deviation of the
9 number of revenue passengers in a given month
10 relative to the same month of the base year. The
11 base year is from March 2019 through February
12 2020. These months were selected as the base
13 months as they were the 12 months immediately
14 preceding the COVID pandemic. The variable is
15 expected to increase at the beginning of the
16 forecast period, but settle at 0.10 below the base
17 year levels from 2023 onwards due to an expected
18 decrease in business travel going forward.

19 Q. Have you prepared an exhibit showing the models that you
20 have just described?

21 A. Yes, we have prepared a three-page document entitled
22 "NYPA VOLUME FORECASTING MODELS." In this Exhibit, we

ELECTRIC FORECASTING PANEL

1 provide the econometric models used for forecasting NYPA
2 delivery volume.

3 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-5)

4 **G. Recharge New York Volumes**

5 Q. What is Recharge New York?

6 A. Recharge New York is a statewide economic development
7 program administered by NYPA to provide low cost electric
8 power to non-profits and small businesses.

9 Q. Please describe how you develop the RNY delivery volume
10 forecast.

11 A. We develop the delivery volume forecast for RNY by using
12 historical data for the 12 month period that ended
13 September 2021 of the customers who have accepted a RNY
14 allocation offered by NYPA.

15 Q. How are the total delivery volumes for the franchise area
16 derived?

17 A. The total delivery volumes are equal to the sum of Con
18 Edison, NYPA, and RNY volumes.

19 **H. Demand Side Management Programs**

20 Q. Does your forecast of delivery volumes reflect the impact
21 of demand side management ("DSM") programs?

22 A. A. Yes. The forecasts are net of the impacts of Con
23 Edison's New Efficiency: New York (NE:NY) and Clean Heat

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 programs, and the Company's current Non-Wires Solutions
2 ("NWS") portfolio, including the Brooklyn Queens Demand
3 Management Program ("BQDM") and other NWS programs. The
4 forecast also includes projected reductions attributable
5 to other energy reduction programs, such as approved
6 NYSERDA Clean Energy Fund ("CEF") programs, as well as
7 NYPA's planned efficiency projects in the Company's
8 service territory.

9 Q. What sources are used for energy efficiency program
10 forecasts?

11 A. The energy efficiency program forecasts are based on the
12 energy efficiency programs described in the Customer
13 Energy Solutions Panel testimony (including NYPA
14 projects) and additional Company modeling of the energy
15 efficiency savings required to achieve CLCPA goals.

16 Q. What sources are used in other program forecasts?

17 A. The Company included projected energy savings from its
18 BQDM Program based on Case 14-E-0302 and other NWS
19 programs.

20 Q. Is NYSERDA's CEF included in this forecast?

21 A. Yes, savings related to the NYSERDA CEF are included in
22 this forecast. We based forecasted energy savings on the
23 estimated market development benefits found in the Clean

ELECTRIC FORECASTING PANEL

1 Energy Investment Plan: Budget Accounting and Benefits
2 Chapter submitted by NYSERDA in Matter 16-00681, *In the*
3 *Matter of the Clean Energy Fund Investment Plan*, and
4 adjusted for expected future energy reductions in the
5 CECONY service territory.

6 **I. Other Volume Adjustments**

7 Q. Are there any other adjustments to the delivery forecast?

8 A. Yes. The delivery volume forecast for CECONY customers
9 includes the following additional adjustments:

- 10 1. Solar generation - to account for the projected
11 reduction in delivery volumes associated with the
12 installation of solar panels by customers who will
13 then generate a portion or all of their energy
14 requirements.
- 15 2. Standby service (DG/CHP) - to reflect the projected
16 delivery volumes from customers who plan to convert
17 a portion, or all, of their existing load to on-site
18 generation and will pay standby rates.
- 19 3. Conservation Voltage Optimization - to account for
20 the projected reduction in delivery volumes
21 associated with voltage optimization that is made
22 possible when advanced metering infrastructure

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

- 1 ("AMI") is installed (which the Company expects to
2 be completed in 2023).
- 3 4. Hudson Yards - to capture the projected delivery
4 volumes from the development of the Hudson Yards,
5 excluding the accounts that are eligible for NYPA
6 rates. This adjustment is based on data provided by
7 Con Edison's Energy Services Department.
- 8 5. Steam air-conditioning conversions - to capture the
9 projected delivery volumes to customers who
10 currently operate steam air-conditioning chillers
11 and plan to convert to electric chillers.
- 12 6. Electric Vehicles - to capture the projected
13 delivery volumes to customers who will be operating
14 electric vehicles.
- 15 7. Electrification of Heating - to capture the delivery
16 volume to customers who we have forecasted to
17 install electric heating systems.¹
- 18 8. Electrification of Cooking, Hot Water, and Dryers -
19 to capture the delivery volume to customers who
20 might switch gas appliances to electric.

¹The Company does not expect the recent NYC electrification law to impact the Company's forecasts for RY1, RY2 or RY3, but will further evaluate this issue for the Update filing.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 9. Battery Storage - to capture the delivery volume to
2 customers who might install battery storage.

3 Q. Are you making any adjustments to the NYPA delivery
4 volumes?

5 A. Yes. We adjusted the NYPA delivery volume forecast to
6 reflect the impacts of DSM; solar generation;
7 electrification of heating; electrification of cooking,
8 hot water, & dryers; electric vehicles; and battery
9 storage. We also adjusted the NYPA delivery volume
10 forecast to reflect the projected reduction in delivery
11 volumes from NYPA customers who plan to convert all or a
12 portion of their existing load to on-site generation and
13 the Hudson Yards accounts that are supplied by NYPA.

14 Q. Have you prepared an exhibit showing the adjustments you
15 have made to the delivery volume forecast?

16 A. Yes, we have prepared a five-page document entitled
17 "DELIVERY AND SENDOUT ADJUSTMENTS." In this Exhibit, we
18 provide the impacts on delivery volume due to items noted
19 above. The impacts are listed, by service class, for
20 each rate year.

21 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-6)

22 Q. For what periods are delivery volumes forecasted?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. Quarterly. However, the quarterly delivery volumes need
2 to be disaggregated into monthly amounts.

3 Q. Why do you need to disaggregate the quarterly delivery
4 volumes into monthly forecasts?

5 A. Monthly delivery volumes are required to calculate
6 revenues.

7 Q. How are the quarterly delivery volumes disaggregated into
8 monthly delivery volumes?

9 A. Quarterly delivery volumes are divided into monthly
10 delivery volumes by replicating the patterns of
11 historical weather-normalized monthly delivery volumes.
12 Monthly delivery volumes are also adjusted to reflect the
13 differences in forecasted billing cycle days.

14 **IV. REVENUE FORECAST**

15 Q. Please explain the method of estimating Con Edison's
16 delivery revenues.

17 A. The delivery revenue forecast consists of both the non-
18 competitive delivery revenues and the competitive
19 delivery revenues. The non-competitive delivery revenues
20 include revenues from customer charges, and the energy
21 and demand delivery rates while the competitive delivery
22 revenues are comprised of the Merchant Function Charge

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 ("MFC"), Billing and Payment Processing Charge ("BPP"),
2 and Metering Charge Revenues.

3 **A. Non-Competitive Revenues**

4 Q. Please explain the method of forecasting Con Edison's
5 non-competitive transmission and distribution delivery
6 ("T&D") revenues for the forecast periods.

7 A. The T&D revenues from the forecasted delivery volumes to
8 Con Edison's customers are estimated by month and by
9 service classification. For each of the energy-only
10 classes (SCs 1 and 2), the Company develops a pricing
11 equation by correlating the monthly average T&D revenue
12 of the class to the monthly volume of the class, the
13 number of billing days, and summer/winter rate
14 differentials, if applicable, using 12 month pricing
15 data.¹

16 For each of the commercial classes (SCs 5, 8, 9, and
17 12), where energy and demand charges apply, the Company
18 also develops a demand pricing equation by correlating

¹The Company's 12 month pricing data is based on the period February 2015 through January 2017, which is the last period where the Company had 13 months or more without a rate change. Twelve months of billing data at the same rates are required to run the regressions on the pricing equations. Because of the billing cycles, we need to have 13 months at the same rates to get the 12 months of bills at the same rates.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 monthly average T&D revenue of the class to monthly
2 billed demand of the class, the number of billing-days,
3 and summer/winter rate differentials, if applicable,
4 using its 12 month pricing data. The T&D energy revenues
5 for commercial classes are based upon pricing equations
6 similar to those developed for the energy only classes.
7 The delivery volume, billed demand, and revenues of
8 customers receiving BIR under Rider J and RNY customers
9 are excluded from the data used in these commercial
10 pricing equations. These pricing equations are then
11 applied to the delivery and demand forecast of the
12 respective service classes to obtain revenue at rates
13 that went into effect on January 1, 2015. The revenue
14 from the pricing models is then adjusted to reflect the
15 rate changes that went into effect on January 1, 2017,
16 January 1, 2018, January 1, 2019, January 1, 2020,
17 January 1, 2021, and January 1, 2022.

18 Q. How do you forecast the revenues for customers not
19 included in the pricing equations?

20 A. The forecast of T&D energy and demand revenues for BIR
21 customers are based on the trend of actual BIR revenues
22 over the 36 months ended December 2020, adjusted to
23 reflect current rates.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 The forecast of T&D revenues for the allocated
2 portion of RNY customers are based on historical billing
3 data for the period October 2020 to September 2021 to
4 develop the delivery volume forecast.

5 The T&D revenues for SC 6 and customers in SCs 8, 9,
6 12, and 13 that are taking service under standby service
7 were estimated by applying the appropriate tariff rates.

8 **B. Competitive Revenues**

9 Q. Please explain the method of estimating Con Edison's
10 competitive delivery revenues for the forecast periods.

11 A. The MFC revenues represent the supply and credit and
12 collection related charges. The service class delivery
13 volumes for full service customers only were multiplied
14 by the current MFC rate as determined in Case 19-E-0065.

15 The BPP revenues are determined by applying the BPP
16 charge per bill to the forecasted number of bills. This
17 charge is at the level set in Case 19-E-0065 and depends
18 on the customer's choice of billing option and choice of
19 service.

20 Q. Please explain the development of the forecasts of the
21 number of bills for the various service classifications.

22 A. We determine the forecasted monthly number of bills by
23 service class by adding the monthly year over year change

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 in the number of customers to the monthly number of bills
2 for the twelve months ended December 31, 2013 (i.e., the
3 historical period for which detailed billing data is
4 available), as was provided to us by the Electric Rate
5 Panel. For January 2014 through September 2021, this
6 change in the number of customers is based on actual
7 customer counts. For the forecast period, the change in
8 the number of bills is based on the number of customers
9 forecast.

10 Q. Please explain the projection of billable demand for Con
11 Edison's commercial customers.

12 A. The billable demand forecast is the ratio of the
13 forecasts for energy volume and the average hours use.

14 Q. How is the average hours use forecasted?

15 A. For each SC, the Company performs a detailed analysis of
16 the relationship between historical delivery volumes and
17 billable demand to determine the average number of hours
18 of usage in each month. We then project these historical
19 monthly averages as the forecasted hours use.

20 **C. NYPA Revenues**

21 Q. Please explain the method of estimating NYPA delivery
22 service revenues for the forecast periods.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. We forecast NYPA delivery service revenues by applying
2 monthly average demand rates to the estimated billable
3 demand. The estimated monthly demand rates are based
4 upon the average actual demand rates for the 12 months
5 ended September 2021, adjusted to reflect the rate
6 changes that went into effect on January 1, 2020, January
7 1, 2021, and January 1, 2022. For NYPA standby service,
8 the energy only classes, KIAC, and Hudson Yards, the
9 delivery revenues are estimated by applying the
10 appropriate tariff rates to our forecast.

11 Q. Please explain the method of arriving at the estimated
12 NYPA demand.

13 A. For NYPA SC91, consistent with the methodology for
14 CECONY, the billable demand forecast is the ratio of the
15 forecasts for energy volume and the average hours use.
16 For SC80, we based the monthly billable demand
17 projections on an analysis of historical growth patterns
18 and a full year average billable demand. Billable demand
19 is not applicable to small general services and non-New
20 York City street lighting that only have an energy charge
21 component.

22 Q. Please explain the method of arriving at KIAC billable
23 demand.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. KIAC billable demand forecast is also calculated by
2 taking the ratio of the energy volume forecast and the
3 average hours use.

4 Q. How are the average hours use for NYPA and KIAC
5 forecasted?

6 A. We project average hours use by using the relationship
7 between NYPA and KIAC's historical delivery volumes and
8 billable demand.

9 Q. Please explain the method of estimating Hudson Yards
10 billable demand.

11 A. We develop the Hudson Yards billable demand forecast
12 based on a deterministic method using the estimated load
13 levels provided by the Company's Energy Services
14 Department.

15 **D. Other Revenues**

16 Q. The revenue forecast also includes Market Supply Charge
17 ("MSC") and Monthly Adjustment Clause ("MAC") revenues.
18 Please explain how these components are forecast.

19 A. Rates for the MSC and MAC charges for each service class
20 are supplied by the Electric Rate Panel. These rates are
21 then multiplied into the delivery volume forecast for the
22 respective service classes to determine, by service
23 class, the MSC and MAC charges.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 to increase by 1.2% in 2021, 5.4% in 2022, 2.3% in 2023,
2 1.1% in 2024, and 0.4% in 2025. The number of customers
3 is represented by a sales-weighted index of the number of
4 customers in SCs 1, 2, 8, and 9.

5 Q. Does your forecast of system sendout reflect the impact
6 of DSM programs?

7 A. Yes. Like the delivery volume forecast, the sendout
8 forecast is net of the impact of the DSM programs.

9 Q. Are there any other adjustments made to the sendout
10 forecast?

11 A. Yes. The sendout forecast is also adjusted for projected
12 changes in each of the factors affecting delivery volumes
13 as discussed in Section III above.

14 Q. How do you determine the sendout forecasts for the
15 different categories of delivery volumes, such as NYPA,
16 RNY, and retail access delivery volumes?

17 A. The NYPA and RNY sendout forecasts are derived from their
18 respective delivery volume forecasts. We apply the
19 historical averages of distribution efficiency factors to
20 the delivery volume forecast to account for the line loss
21 in the system. Forecasts for retail access customers are
22 done using a proportional allocation.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 Q. How was the sendout for Con Edison full service customers
2 derived?

3 A. It is derived by subtracting the sendout forecasts for
4 NYPA, RNY, and retail access customers from the franchise
5 area sendout.

6 Q. Do you need to disaggregate the quarterly sendout
7 forecasts into monthly forecasts?

8 A. Yes. Company Witness Kimball, Electricity Supply,
9 requires the monthly full service sendout for forecasting
10 fuel costs.

11 Q. How are the quarterly sendout forecasts disaggregated
12 into monthly sendouts?

13 A. Quarterly sendouts are divided into monthly sendouts by
14 reflecting the patterns of historical weather-normalized
15 monthly sendout figures.

16 **VI. FORECAST SUMMARY**

17 Q. I show the Panel a one-page document entitled "ELECTRIC
18 SENDOUT, DELIVERY VOLUMES, AND REVENUES FROM DELIVERY
19 VOLUMES - FORECASTED THREE MONTHS ENDING DECEMBER 31,
20 2021, AND YEARS ENDING DECEMBER 31, 2022, DECEMBER 31,
21 20223, DECEMBER 31, 2024, AND DECEMBER 31, 2025" and ask
22 if it was prepared under the Panel's supervision and
23 direction?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. Yes, it was.

2 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-7)

3 Q. Will you please describe what is shown on this Exhibit?

4 A. Yes. This Exhibit shows the forecast of electric system
5 sendout, delivery volumes, and revenues from delivery
6 volumes for the three months ended December 31, 2021 and
7 the twelve months ending December 31, 2022, December 31,
8 2023 - RY1, December 31, 2024 - RY2, and December 31,
9 2025 - RY3. Lines 1 through 4 show sendout categories
10 within the Con Edison franchise area, and the total
11 sendout for each period. Lines 5 through 8 show electric
12 system delivery volumes for the same categories. Lines 9
13 through 23 show revenues for each of the periods. For
14 RY1, as shown in column 3, lines 24 through 29 show the
15 proposed revenue increases from delivery volumes to Con
16 Edison and NYPA customers, decreased revenues from
17 discounts to low income customers, as well as the
18 associated revenue taxes, and line 30 shows total revenue
19 at the proposed rates.

20 Q. I show the Panel a document consisting of five pages,
21 entitled "ELECTRIC DELIVERY VOLUMES AND REVENUES FROM
22 DELIVERY VOLUMES BY SERVICE CLASSIFICATION" and ask if

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 this Exhibit was prepared under the Panel's supervision
2 and direction?

3 A. Yes, it was.

4 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-8)

5 Q. Does this Exhibit set forth the results of the forecasts?

6 A. Yes. This Exhibit sets forth in greater detail, by
7 service classification, the data that were shown in
8 summary form on Exhibit ____ (EFP-7). Page 1 of this
9 Exhibit shows the forecasted electric delivery volumes
10 and revenues by service classification for the three
11 months ended December 31, 2021. GWh delivery volumes are
12 shown in Column 1, the sum of the monthly billable demand
13 for Con Edison and NYPA in Column 2, non-competitive
14 transmission and distribution delivery revenues at the
15 current rates in Column 3, competitive service revenues
16 at the current rates in Column 4, Reactive Power revenues
17 at the current rates in Column 5, System Benefit
18 Charge/Renewable Portfolio Standard revenues in Column 6,
19 MSC, MAC, and DLM revenues in Column 7, revenue taxes in
20 Column 8, and total revenues at current rates in Column
21 9. Pages 2 through 5 are similar in format to page 1;
22 page 2 covers the forecast for 12 months ending December
23 31 2022, page 3 covers the forecast for RY1, page 4

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 covers the forecast for RY2, and page 5 covers the
2 forecast for RY3. For the rate years, the low income
3 discounts are shown as a separate item on line 9 at the
4 level proposed by the Customer Operations Panel. For
5 RY1, as shown on page 3, the effect of the proposed
6 changes in revenues, annualized for the Rate Year, are
7 shown in Columns 10 through 13, with the associated
8 increase in revenue taxes shown in Column 14. The
9 proposed change in revenues from the purchase of
10 receivables, as supplied by the Electric Rate Panel, is
11 shown on line 10. Column 15 shows the total revenues at
12 proposed rates. The total proposed revenue increase to
13 be collected from Con Edison's customers of
14 \$1,028,583,000, exclusive of Gross Receipts Tax ("GRT"),
15 consists of the non-competitive T&D related delivery
16 revenue increase of \$885,153,000, the customer charge
17 increase of \$138,405,000, the competitive service revenue
18 decrease of \$4,154,000, reactive power revenue increase
19 of \$455,000, and a MAC increase of \$8,724,000. The
20 proposed rates also result in increases, exclusive of
21 GRT, in NYPA delivery revenue of \$136,704,000. The
22 resultant proposed overall increase for RY1, inclusive of

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 the increase in rates and charges of \$37,288,000 for
2 revenue taxes, amounts to \$1,202,575,000.

3 Q. Should this revenue forecast be used as the basis for
4 setting the target revenues in the revenue decoupling
5 mechanism ("RDM")?

6 A. Yes, the non-competitive delivery revenue forecast shown
7 in Columns 3, 5, 10, and 12 on Page 3 of Exhibit ____
8 (EFP-8) should be the basis for setting the target
9 revenue for each relevant service classification.

10 Q. Please explain the current RDM methodology.

11 A. The current RDM is based on a total class revenue
12 approach. That is, at the end of each rate year, the
13 Company will reconcile, by service class, the actual
14 delivery revenues including reactive power revenue to the
15 allowed delivery revenues, which include reactive power
16 revenue. The Company refunds to customers if the actual
17 delivery revenues are more than the allowed delivery
18 revenues and surcharges customers if the actual delivery
19 revenues are less than the allowed delivery revenues.
20 The RDM is applicable to SCs 1, 2/6, 8, 9/5, 12, and
21 NYPA. BIR, RNY, and Standby Service customers, which
22 includes SC 13, are currently excluded from the RDM.

23 Q. Is the Company proposing any changes to the RDM?

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 A. Yes, we are proposing to extend the applicability of the
2 RDM to all Standby Service customers, and combine SC 8
3 and SC 13 into one target on January 1, 2024. Details of
4 the proposal are provided in the Electric Rate Panel's
5 testimony.

6 Q. Assuming that retail access customers' supply costs were
7 equivalent to the supply cost projected by the Company to
8 its full service customers, and assuming that NYPA
9 customers' supply costs were \$0.075620/kWh, as specified
10 in the testimony of the Electric Rate Panel, what is the
11 percentage increase in total overall revenues?

12 A. The percentage increase for RY1 is approximately 14.2
13 percent.

14 Q. Has the Electric Forecasting Panel prepared an exhibit
15 that shows the future average prices of delivery and
16 supply by service class, taking into account both the
17 increase in proposed delivery rates and other expected
18 changes, such as changes in the MSC and MAC?

19 A. Yes, we have prepared a one-page document entitled
20 "FUTURE AVERAGE DELIVERY AND SUPPLY PRICES BY SERVICE
21 CLASSIFICATION." In this Exhibit, we provide the
22 forecast of the average price of T&D Delivery and Supply
23 for each service classification for the three rate years.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ELECTRIC FORECASTING PANEL

1 The supply charges reflect the effect of projected MSC
2 and MAC charges based on the electric supply cost
3 projections made by Company Witness Kimball. The
4 delivery charges consist of projected non-competitive T&D
5 charges and projected competitive service charges based
6 on three years of proposed delivery revenue increases as
7 provided to us by the Electric Rate Panel.

8 MARK FOR IDENTIFICATION AS EXHIBIT ____ (EFP-9)

9 Q. Does this conclude the Panel's direct testimony?

10 A. Yes, it does.