

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DIRECT TESTIMONY – ACCOUNTING PANEL

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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

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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

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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:

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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

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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.

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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.

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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.

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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

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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?

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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.

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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

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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

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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

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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.

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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

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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.

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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

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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.

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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.

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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.

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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

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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:

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- 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.

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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

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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.

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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

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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.

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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.

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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.

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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

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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.

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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.

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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.

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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

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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.

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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

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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

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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.

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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

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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.

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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

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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

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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.

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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

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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

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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.

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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

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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).

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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.

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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

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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.

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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.

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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

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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.

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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

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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

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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

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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

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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

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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.

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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)

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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.

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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

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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.

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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

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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

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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

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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

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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.

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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.

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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

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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

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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.

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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

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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?

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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

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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

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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.

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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

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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

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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.

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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

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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).

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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

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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.

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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.

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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.

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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.

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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?

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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?

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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

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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?

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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

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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

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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

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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.

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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

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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

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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

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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

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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.

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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.

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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

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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?

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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.

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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.

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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.

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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

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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

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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

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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.

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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.

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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,

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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

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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.

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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>

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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

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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

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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.

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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.

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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?

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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.

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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.

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DIRECT TESTIMONY OF

GAS RATE PANEL

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GAS RATE PANEL

I. INTRODUCTION

1 Q. Would the members of the Gas Rate Panel ("Panel") please
2 state their names and business addresses.

3 A. William Atzl, Yan Flishenbaum, Lucy Villeta and Alla
4 Warner, 4 Irving Place, New York, New York 10003.

5 Q. By whom are you employed and in what capacity?

6 A. **(Atzl)** I am employed by Consolidated Edison Company of New
7 York, Inc. ("Con Edison" or the "Company") as the Director
8 of the Rate Engineering Department.

9 **(Flishenbaum)** I am employed by Con Edison as the
10 Department Manager of the Load Research and Cost Analysis
11 sections in the Rate Engineering Department.

12 **(Villeta)** I am employed by Con Edison as the Department
13 Manager of the Gas Rates section in the Rate Engineering
14 Department.

15 **(Warner)** I am employed by Con Edison as a Senior Rate
16 Analyst in the Gas Rates section in the Rate Engineering
17 Department.

18 Q. Please summarize your educational background and business
19 experience.

20 A. **(Atzl)** In 1983, I graduated from the State University of
21 New York at Stony Brook with a Bachelor of Engineering
22 degree in Mechanical Engineering. In 1989, I graduated
23 from Pace University, White Plains, New York with a Master

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1 of Business Administration degree in Management
2 Information Systems. I am a Licensed Professional
3 Engineer in the State of New York. My first employment
4 was with the Long Island Lighting Company in 1983 where I
5 held the position of Assistant Engineer in the New
6 Business Department. In 1984, I joined Orange and
7 Rockland Utilities, Inc. ("Orange and Rockland," or "O&R")
8 as a Commercial and Industrial Representative in the
9 Commercial Operations Department. At Orange and Rockland,
10 I also held the positions of Commercial and Industrial
11 Engineer, Program Administrator - Demand-Side Management,
12 Manager - Demand-Side Management Operations, Manager -
13 Energy Services and Pricing, and Manager - Regulatory
14 Affairs. In October 1999, I joined Con Edison and held
15 the position of Department Manager - Electric and Gas Rate
16 Design - O&R and Director prior to my present position.
17 **(Flishenbaum)** I received a Bachelor of Business
18 Administration Degree in Economics from Pace University in
19 2001 and a Master of Business Administration Degree in
20 Finance and Economics from New York University in
21 2008. In 2001, I began my employment with Con Edison in
22 the Cost Analysis Area of the Rate Engineering Department.
23 In 2003, I was promoted to Analyst, mainly involved in the
24 development of the costing methodologies related to

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1 unbundling. I was promoted to Senior Analyst in 2005. In
2 2008, I was promoted to Senior Rate Analyst responsible
3 for developing the Company's cost-of-service models. In
4 2013 I was promoted to Section Manager of the Electric
5 Rates area of the Rate Engineering Department. I have
6 been in my current position since September 2016.

7 **(Villeta)** I received a Bachelor of Business Administration
8 Degree in Finance with a minor in Management Information
9 Systems from Pace University in September 1989. In
10 October 1989, I began my employment with Con Edison as a
11 Management Intern with rotational assignments in
12 Forecasting and Economic Analysis, Accounting Research and
13 Procedures ("ARP") and Power Generation Services. In June
14 1990, I accepted my permanent assignment as an Associate
15 Accountant in ARP. In 1995, I was promoted to Budget
16 Analyst in Central Customer Service. In 1998, I was
17 promoted to Senior Analyst in Customer Operations
18 responsible for managing the Call Center and Service
19 Center budget. In 2001, I was promoted to Financial
20 Manager of Staten Island and Electric Services. In 2005 I
21 was promoted to Section Manager of Cost Analysis section
22 of the Rate Engineering Department responsible for the
23 development of fully unbundled embedded and marginal cost

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1 of service studies. I have been in my current position
2 since December 2021.

3 **(Warner)**I am a Senior Rate Analyst in the Gas Rates
4 section in the Rate Engineering Department. I received a
5 Bachelor of Arts Degree and a Master of Business
6 Administration Degree in Finance from Russian State
7 Economics University. In 2014, I received a Bachelor of
8 Arts Degree in Financial Economics from Columbia
9 University. My employment thereafter was as a Rate
10 Analyst at SUEZ from 2015 to 2017. I joined Con Edison in
11 2017 as a Senior Analyst in the Gas Rates section of the
12 Rate Engineering Department. In December 2021, I was
13 promoted to my current position.

14 Q. Have any members of the Gas Rate Panel previously
15 testified before the New York State Public Service
16 Commission ("PSC" or the "Commission")?

17 A. This is Alla Warner's first time testifying before the
18 Commission. All other members of the Panel have
19 previously testified before the Commission.

20

21 **II. PURPOSE OF TESTIMONY**

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

23 A. Our testimony presents the Company's:

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- 1 (1) Gas embedded cost of service ("ECOS") study,
2 including the development of unbundled costs
3 associated with competitive services;
- 4 (2) Gas marginal transmission and distribution cost
5 analysis;
- 6 (3) Proposed revenue allocation and rate design;
- 7 (4) Revenue and bill impacts showing the projected
8 number of bill increases and decreases, and typical
9 monthly bills, by class;
- 10 (5) Other tariff changes; and
- 11 (6) Computer System Enhancement Programs.

12
13 **III. EMBEDDED COST-OF-SERVICE STUDY**

- 14 Q. Did you perform an ECOS study for this proceeding
15 including the development of unbundled costs associated
16 with competitive services?
- 17 A. Yes, we did. Exhibit ___ (GRP-1) is entitled "Consolidated
18 Edison Company of New York, Inc. - Embedded Cost-of-
19 Service Study - Gas Department - Year 2019."
- 20 Q. Please describe the exhibit.
- 21 A. The ECOS study and unbundled cost components analysis
22 exhibit consists of three schedules. The first schedule,
23 entitled Exhibit ___ (GRP-1), Schedule 1 "Consolidated
24 Edison Company of New York, Inc. - Embedded Cost-of-

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1 Service Study - Gas Department - Year 2019 - Rates in
2 Effect January 1, 2022," shows the results of the ECOS
3 study. The second schedule entitled Exhibit ___ (GRP-1),
4 Schedule 2, "Merchant Function," shows the Merchant
5 Function Charge ("MFC") calculations. The third schedule,
6 entitled Exhibit ___(GRP-1), Schedule 3 "Billing & Payment
7 Processing," shows the unbundled costs for printing and
8 mailing a bill and receipts processing functions.

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

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

13 Q. What cost categories are analyzed in the ECOS study you
14 are presenting?

15 A. The ECOS study analyzes costs and revenues associated with
16 the Company's transmission, storage and distribution
17 operations. It also includes the competitive cost
18 categories related to the gas merchant function, the
19 receipts processing function and the printing and mailing
20 a bill functions. Competitive revenues included in the
21 study are the MFC revenues associated with commodity
22 procurement and credit and collections, as well as billing
23 and payment processing ("BPP") revenues. The Gas Cost
24 Factor ("GCF") revenues, Monthly Rate Adjustment ("MRA")

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1 revenues and associated expenses are not included in the
2 ECOS study. Revenues and expenses associated with the
3 uncollectible component of the MFC and System Benefits
4 Charge ("SBC") have also been excluded from the study.
5 Revenues and gas costs are presented as if there were no
6 interruptible customers.

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

8 A. It covers Con Edison's gas operations for the calendar
9 year 2019.

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

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

23 Q. What gas revenues are reflected in the ECOS study?

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1 A. Gas revenues reflect current delivery rates, which went
2 into effect January 1, 2022 ("current rates"). In
3 addition, non-competitive T&D revenues include weather
4 normalization adjustment ("WNA") revenues, which is a
5 change from the ECOS study in our last rate case
6 submission.

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

8 A. The ECOS study analyzes Con Edison's four firm classes:
9 Service Classification ("SC") 1, SC 2 Rate I (including
10 customers served under SC 13), SC 2 Rate II, and SC 3.
11 For the purposes of the ECOS study and rate design, we
12 combined firm transportation classes with their otherwise
13 applicable firm sales service classes.

14 Q. How are the results of the ECOS study expressed?

15 A. The results of the ECOS study are expressed as Total
16 Company ("total system") and class-by-class rates of
17 return.

18 Q. What is the total system rate of return shown in the ECOS
19 study?

20 A. The total system rate of return is 12.22% as shown on
21 Table 1, Page 1, Column (1), Line 17 of the ECOS study.

22 Q. What are the class rates of return shown in the ECOS
23 study?

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1 A. The following class rates of return are shown on Table 1,
2 Page 1, Line 17 of the ECOS study:

3 SC 1: 17.13%

4 SC 2 RATE I: 15.23%

5 SC 2 RATE II: 11.09%

6 SC 3: 11.29%

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

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

20 Q. Based on the application of the $\pm 10\%$ tolerance band around
21 the calculated total system rate of return of 12.22%, what
22 are the ECOS study class surpluses and deficiencies?

23 A. These results are shown on Table 1 of Schedule 1, lines 26
24 and 27 respectively. SC 1 is surplus by \$36,230,127, SC 2

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1 Rate I is surplus by \$13,660,064, SC2 Rate II and SC3 are
2 within the tolerance band.

3 Q. What is the significance, for example, of the SC 1 surplus?

4 A. The surplus is the amount of revenue decrease, at current
5 rates, required to bring the SC 1 return to the upper level
6 of the tolerance band around the system rate of return.

7 Q. Please describe what is shown on Table 1A, which is the
8 last page of Exhibit__(GRP-1).

9 A. Due to the application of a 10% tolerance band around the
10 system rate of return, the ECOS study in this case
11 produces a net system surplus. To ensure that ECOS study
12 indications are revenue neutral to the Company, Table 1A
13 adjusted all SCs to offset the net system surplus.

14 Q. Let us now turn to the methodology used in developing the
15 ECOS study. Please describe the procedures followed in
16 the preparation of this study.

17 A. There are two main steps in the preparation of the ECOS
18 study: (1) functionalization and classification of costs
19 to operating functions, such as gas supply, distribution,
20 customer accounting and customer service (with further
21 division into sub-functions, such as distribution-demand
22 component (mains) and distribution-services), and (2)
23 allocation of these functionalized costs to customer
24 classes.

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1 Q. Please describe the functionalization and classification
2 step.

3 A. The functionalization and classification step assigns the
4 broad accounting-based cost categories to the more
5 detailed categories used in the ECOS study. This
6 breakdown is required, for example, to differentiate
7 distribution-demand related costs from distribution-
8 customer related costs. This allows for the proper
9 allocation of these costs to the classes based on cost
10 causation.

11 Q. Please continue.

12 A. During the process of functionalization, all costs are
13 classified as being demand-related, commodity-related, or
14 customer-related. Demand-related costs are fixed costs
15 created by the on-peak hourly loads placed on the various
16 components of the gas system. Commodity-related costs are
17 variable costs caused by the total quantities of gas
18 delivered during the year. Customer-related costs are
19 fixed costs caused by the presence of customers connected
20 to the system, regardless of any customer's particular
21 level of usage.

22 Q. Please describe the allocation step.

23 A. This step allocates the functionalized and classified
24 costs to the customer classes based on the appropriate

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1 demand, commodity (sales) or customer allocation factors,
2 which are shown on Table 7 of the ECOS study.

3 Q. Please explain the general organization of the ECOS study.

4 A. The ECOS study begins with explanatory notes detailing
5 sources of data and methods used in the preparation of the
6 study followed by seven tables of cost data.

7 Q. Does the ECOS study contain an analysis of customer costs
8 by class of service?

9 A. Yes. Please refer to Table 6, Page 1, Line 14 of the ECOS
10 study. The monthly customer costs by class are as
11 follows:

12	SC 1:	\$26.54
13	SC 2 RATE I:	\$93.20
14	SC 2 RATE II:	\$137.64
15	SC 3:	\$149.11

16 Q. What do customer costs include?

17 A. Customer costs include: a distribution-customer component,
18 services, meters and house regulators, customer
19 installation, payment processing, printing and mailing a
20 bill, customer accounting, uncollectibles and customer
21 service.

22 Q. Does the ECOS study present unbundled functional costs for
23 competitive services as set forth in the Commission's
24 *Statement of Policy on Unbundling and Order Directing*

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1 *Tariff Filings*, issued August 25, 2004, in Case 00-M-0504
2 ("Unbundling Policy Statement")?

3 A. Yes. The ECOS study separately identifies the following
4 competitive functions: gas merchant function, receipts
5 processing, and printing and mailing a bill.

6 Q. What costs are included in the gas merchant function?

7 A. The gas merchant function contains costs associated with
8 procuring the gas commodity, including an allocation of
9 customer care-related activities, customer service-related
10 activities and Information Technology ("IT").

11 Q. What costs are included in the allocation of customer care
12 and customer service-related activities?

13 A. The customer care allocation includes costs associated
14 with the Company's call centers, service centers, and
15 credit and collection/theft activities. The customer
16 service allocation also includes an assignment of
17 education and outreach costs.

18 Q. How were these costs allocated to the gas merchant
19 function?

20 A. Pursuant to the Unbundling Policy Statement, customer care
21 and customer service-related costs were allocated to the
22 gas merchant function on the basis of total revenues
23 (i.e., including commodity revenues and SBC revenues).

24 Q. How were IT costs allocated to the gas merchant function?

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1 A. Pursuant to the Unbundling Policy Statement, IT costs were
2 allocated on the basis of total revenues with 50 percent
3 of the resultant allocation included in the gas merchant
4 function.

5 Q. Have you further unbundled the gas merchant function for
6 use in developing rate components for competitive
7 services?

8 A. Yes. The ECOS study includes the development of separate
9 supply-related and credit and collection-related MFC
10 components to recover the costs for these commodity-
11 related competitive services from two categories of
12 customers. The supply-related MFC component consists of
13 the costs associated with procuring commodity, and an
14 allocation of IT and education and outreach associated
15 with commodity. The credit and collection-related MFC
16 component consists of costs associated with credit and
17 collection/theft. Only full service customers will pay
18 for these MFC components. The costs for credit and
19 collection services associated with the Purchase of
20 Receivables ("POR") program have been identified
21 separately and are reflected in a component of the POR
22 discount applicable to marketers serving firm
23 transportation customers receiving utility consolidated
24 bills.

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1 Q. How are these components allocated to the service
2 classifications within the study?

3 A. One hundred percent of gas procurement activity costs and
4 25 percent of credit and collection/theft, IT, and
5 education and outreach costs were allocated on a per-therm
6 basis. The remaining 75 percent of credit and
7 collection/theft, IT, and education and outreach costs
8 were allocated on a per-customer basis.

9 Q. Why were the customer care-type costs, such as credit and
10 collection/theft, allocated predominantly on the basis of
11 number of customers, while the gas procurement activity
12 was allocated entirely on a volumetric (i.e., therm
13 consumption) basis?

14 A. The Company followed basic cost causation principles and
15 determined that customer care-type activities are
16 predominantly driven by the existence of customers on the
17 system as opposed to their usage characteristics. On the
18 other hand, the functional cost of purchasing commodity is
19 aligned with sales volumes. This allocation is consistent
20 with the *Order Adopting Unbundled Rates and Backout*
21 *Credits and Specifying Terms for the Recovery of Revenues*
22 *Lost As a Result of Such Rates and Credits*, issued April
23 15, 2005, in Case 04-E-0572, approving Con Edison's
24 unbundled rates.

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1 Q. Is the allocation of the MFC components to various groups
2 of customers shown on Exhibit __ (GRP-1)?

3 A. Yes. Schedule 2 of Exhibit __ (GRP-1), pages 1 and 2,
4 shows the allocation of the competitive supply-related MFC
5 cost components and the competitive credit and collection-
6 related MFC cost components to the residential and
7 commercial categories of customers. The exhibit presents
8 these two components as percentages of total revenues,
9 which is the sum of the T&D and competitive revenues
10 (i.e., MFC, BPP and POR Discount Credit and Collection
11 revenues) used in the ECOS study. Separate percentages
12 are shown for the residential and commercial groups of
13 customers for use in the development of the MFC.

14 Q. Is the allocation of unbundled costs for printing and
15 mailing a bill and receipts processing functions shown on
16 Exhibit __ (GRP-1)?

17 A. Yes. Schedule 3 of Exhibit __ (GRP-1) shows the unbundled
18 costs for printing and mailing a bill and receipts
19 processing functions. The printing and mailing a bill
20 function and the receipts processing function consist of
21 the customer accounting expense of accepting customer
22 payments and billing customers, including both direct
23 costs and an allocation for call center and walk-in center
24 operations based on a detailed study of those activities.

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1 Credit and collection, education and outreach, and
2 uncollectible expenses were allocated to these functions
3 on the basis of functional revenues. The unbundled
4 average unit cost for receipts processing is 46 cents per
5 bill. The average unit cost for printing and mailing a
6 bill is 74 cents per bill. The costs for these two
7 functions combined yield \$1.20 in unbundled costs
8 associated with billing and payment processing. The costs
9 associated with billing and payment processing do not vary
10 by SC and, thus, the system-wide \$1.20 in unbundled costs
11 is applicable to all service classifications.

12

13

IV. GAS MARGINAL T&D COST ANALYSIS

14 Q. Did you perform an analysis of the marginal cost of
15 delivering an additional therm of gas on the transmission
16 and distribution system?

17 A. Yes. The analysis is shown in Exhibit __ (GRP-2), titled
18 "Consolidated Edison Company of New York, Inc. - Marginal
19 Cost Analysis."

20 Q. Please describe the exhibit.

21 A. Exhibit __ (GRP-2), Schedule 1, shows the steps in the
22 calculation of the marginal cost of delivering an
23 additional therm of gas on Con Edison's gas transmission
24 and distribution system. Exhibit __ (GRP-2), Schedule 2

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1 presents a comparison of marginal costs developed in
2 Schedule 1 to current T&D revenues.

3 Q. What period was used to calculate marginal costs?

4 A. We used the forecast period of five years from January 1,
5 2022 through December 31, 2026. This period includes the
6 twelve months ending December 31, 2023 ("Rate Year").

7 Q. Please define marginal T&D costs.

8 A. Marginal T&D costs are the costs associated with additions
9 and modifications to the T&D system infrastructure that
10 result from increased throughput due to increased sales.
11 This does not include costs associated with service piping
12 or any equipment inside the customer's premises.

13 Q. How did you estimate the marginal T&D costs for this
14 study?

15 A. First, we identified capital costs incurred for the T&D
16 system to maintain reliable service under peak design
17 conditions as a result of increased sales. As discussed
18 in the testimony of the Company's Gas Infrastructure,
19 Operations and Supply Panel ("GIOSP"), the Company is not
20 actively pursuing growth in the gas business, consistent
21 with its clean energy commitment and the Climate
22 Leadership and Community Protection Act ("CLCPA").
23 However, the Company does have an obligation to serve
24 eligible customers who decline gas alternatives or for

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1 whom gas alternatives are not feasible. For purposes of
2 this marginal cost study, only mains investment associated
3 with customer connections was identified as marginal.
4 Line 1 in Exhibit __ (GRP-2), Schedule 1, shows the
5 projected average annual capital investment in the T&D
6 system for the years 2022-2026 that results from increased
7 sales associated with customer connections. Next, we
8 calculated the annualized costs associated with the
9 average annual capital costs by applying a carrying charge
10 of 8.46%, plus an additional 1.80% in annual O&M, to Line
11 1. The final step in our analysis was to compute the
12 average T&D capital costs per unit of increased sales
13 associated with customer connections by dividing the
14 incremental annualized capital costs by the projected
15 increase in annual sales and escalating the result to
16 bring it to Rate Year dollars. Line 6 of Exhibit __ (GRP-
17 2), Schedule 1, shows the computed projected increase in
18 sales (in therms); Line 7 shows the general escalation
19 factor; and Line 8 shows the resultant total average
20 marginal T&D cost per unit of increased sales.

21 Q. How do the marginal T&D costs compare to what is currently
22 being recovered in rates?

23 A. Exhibit __ (GRP-2), Schedule 2, shows that marginal costs
24 are less than what is being recovered in delivery rates

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1 for both SC 2 Rate I and SC2 Rate II. The ratio by which
2 marginal costs are less than what is being recovered in
3 delivery rates is the basis for the discounts
4 participating customers receive under Rider D - Excelsior
5 Jobs Program ("EJP"), which is further discussed in detail
6 below. If marginal costs exceed what is being recovered
7 in delivery rates, no discount under EJP is warranted.

8

9

V. REVENUE ALLOCATION AND RATE DESIGN

10 Q. Did the Company's Accounting Panel provide you with the
11 increased delivery revenue requirement for the Rate Year?

12 A. Yes, the increase in the delivery revenue requirement for
13 the Rate Year, which is proposed to be obtained from firm
14 sales and firm transportation customers in SCs 1, 2, 3, 9
15 and 13, amounted to \$502.650 million including gross
16 receipts taxes.

17 Q. Please describe how you determined the Rate Year delivery
18 revenue increase applicable to each class.

19 A. We performed the following steps in allocating the
20 increased delivery revenue requirement:

- 21 • Gross receipts taxes of \$12.991 million were deducted
22 from the total Rate Year increased delivery revenue
23 requirement of \$502.650 million to derive the delivery

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1 revenue increase in the Rate Year of \$489.659 million
2 excluding taxes.

3 • Prior to allocating the proposed delivery revenue
4 increase excluding taxes, we increased it by \$10.744
5 million to reflect a projected increase in credits to
6 be paid to low income residential customers in the Rate
7 Year (the current funding level for the low income
8 program credits is \$24.649 million and the projected
9 Rate Year funding level for the low income program
10 credits is \$35.393). This results in an adjusted
11 delivery revenue increase of \$500.403 million excluding
12 taxes.

13 • Rate Year delivery revenues at the current level for SC
14 1, SC 2 Rates I and Rate II, and SC 3 were then
15 realigned to eliminate the deficiency and surplus
16 indications from Exhibit __ (GRP-1), Schedule 1, Table
17 1A. To address the need to eliminate the surpluses and
18 deficiencies while considering the impacts on customers
19 in the deficient SC 2 Rate II and SC 3 classes, we
20 applied one third of the class-specific deficiency and
21 surplus indications ("revenue adjustments") from the
22 ECOS study in a revenue neutral manner prior to
23 applying the revenue increases. This approach allows
24 us to address revenue and cost imbalances while

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1 considering customer bill impacts. Our intent is to
2 reduce further any deficiencies and surpluses in
3 subsequent years.

- 4 • The Rate Year delivery revenue increase was then
5 allocated to each class by applying the overall Rate
6 Year delivery revenue percentage increase to Rate Year
7 delivery revenues as realigned for the ECOS study
8 surplus and deficiency indications as described above.
9 The Rate Year delivery revenue percentage increase of
10 28.78% was developed by dividing the proposed delivery
11 rate increase by the total Rate Year delivery revenues.
- 12 • We then determined the total Rate Year delivery revenue
13 increase for each class by adding the revenue
14 adjustments we proposed based on Table 1A of the ECOS
15 study to the delivery revenue increase allocated to
16 each class.

17 Q. Please explain how you designed firm gas delivery rates
18 for each SC.

- 19 A. The rate design process consisted of the following steps:
- 20 • determining the amount of the revenue increase
21 applicable to the competitive charges;
 - 22 • determining the remaining amount of the revenue
23 increase to be applied to non-competitive charges;
24 and

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1 • designing rates for non-competitive charges.

2 Q. Please explain how you determined the amount of the
3 delivery revenue increase attributable to the competitive
4 charges.

5 A. The amount of the delivery revenue increase attributable
6 to the competitive charges is determined by taking the
7 difference between the competitive service revenues at the
8 proposed rates, designed in accordance with the Unbundling
9 Policy Statement, and the competitive service revenues at
10 current rates. The change in competitive delivery
11 revenues reflects changes in the MFC fixed components.
12 For reasons we will discuss later in this testimony, we
13 are not proposing any changes to the BPP charge.

14 Q. Please describe the MFC fixed components.

15 A. The MFC fixed components consist of: a supply-related
16 component, a credit and collections-related ("C&C")
17 component, and a POR C&C component. Separate MFCs were
18 calculated for the following MFC groups: (1) residential
19 customers (SCs 1 and 3); and (2) commercial customers (SCs
20 2 Rate I, 2 Rate II and 13).

21 Q. Please describe how you designed the MFC.

22 A. As shown on Exhibit __ (GRP-1), Schedule 2, Page 1, the
23 costs associated with the supply-related component are:

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- 1 (1) 0.17627% of total delivery revenues for
2 residential customers; and
3 (2) 0.06332% of total delivery revenues for
4 commercial customers.

5 To determine the Rate Year revenue requirement associated
6 with these costs for each MFC group, the respective
7 percentages were applied to the total Rate Year revenue
8 requirement at the proposed rate level. The resulting
9 Rate Year revenue requirement for the supply-related
10 portion of the MFC for each MFC group was then divided by
11 the combined Rate Year sales for SC 1 and SC 3 full
12 service customers and the combined Rate Year sales for SC
13 2 Rate I, SC 2 Rate II and SC 13 full service customers,
14 respectively, to determine the \$/therm supply-related
15 component of the MFC for each MFC group.

16 Q. Please continue.

17 A. As shown on Exhibit __ (GRP-1), Schedule 2, Page 2, the
18 total costs associated with the credit and collections-
19 related component of the MFC are 0.34940 percent of total
20 Con Edison delivery revenues at current rates.
21 To determine the Rate Year C&C-related revenue
22 requirement, this percentage was applied to the total Rate
23 Year delivery revenue requirement at the proposed level.
24 The total Rate Year C&C-related revenue requirement was

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1 then split between full service and POR customers based on
2 the respective split of full service and POR forecasted
3 Rate Year volumes. The portion of the C&C-related Rate
4 Year revenue requirement to be recovered from full service
5 customers through separate MFC rate components was further
6 allocated among: (1) SC 1 and SC 3 customers; and (2) SC 2
7 Rate I, SC 2 Rate II and SC 13 customers based on the
8 breakdown of relative class percentages for full service
9 customers' portion of C&C costs as shown on Exhibit__
10 (GRP-1), Schedule 2, Page 2. The resulting Rate Year
11 revenue requirements for the C&C-related portion of the
12 MFC for each MFC group were then divided by the respective
13 Rate Year volumes for full service customers to determine
14 the \$/therm C&C-related component of the MFC. The
15 residual Rate Year C&C-related revenue requirement will be
16 recovered through a percentage adder to the POR discount
17 rate.

18 Q. Have you changed the BPP charge?

19 A. No. Under the current Electric and Gas Rate Plans
20 established in Cases 19-E-0065 and 19-G-0066, in order to
21 have a consistent BPP charge applicable to gas and
22 electric service, the BPP charge was set at \$1.28. As
23 noted in Section III, the unbundled cost for gas billing
24 and payment processing is \$1.20 per bill. As noted by the

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1 Electric Rate Panel, the Electric ECOS study determined
2 that the unbundled cost for electric billing and payment
3 processing is \$1.21 per bill. The Electric Rate Panel
4 adjusted this cost based on the Gross Domestic Product
5 Implicit Price Deflator index, resulting in an adjusted
6 billing and payment processing cost of \$1.27, which is
7 extremely close to the current level of \$1.28. The
8 Electric Rate Panel therefore proposes to keep the
9 electric BPP at the current level. Likewise, we are
10 proposing to keep the gas BPP charge at its current level
11 of \$1.28 per bill to maintain a consistent BPP charge for
12 electric and gas service.

13 Q. How will the BPP charge be applied?

14 A. Single service gas customers purchasing both commodity and
15 delivery from the Company and single service retail access
16 customers receiving separate bills from the Company and a
17 Marketer will pay \$1.28 per bill, which is also unchanged.

18 Q. Will dual service customers pay the same BPP charge as
19 single service customers?

20 A. Yes, but half of the charge is treated as a gas charge
21 under the Company's gas rate schedule and the other half
22 as an electric charge under the Company's electric rate
23 schedule.

24 Q. Please describe the next step in the rate design process.

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1 A. The revenue increase to be applied to the non-competitive
2 charges for each class was determined by adjusting the
3 total revenue increase for the variation between the
4 competitive charges by class at current rates and
5 competitive charges by class for the Rate Year.

6 Q. Please describe how you designed the non-competitive
7 charges to collect the Rate Year non-competitive delivery
8 revenue increase.

9 A. The minimum charges, which include delivery of the first
10 three therms of gas, were increased for the firm SCs. The
11 minimum charge for SC 1 was increased from \$27.70 to
12 \$31.00 as explained below. The minimum charge for SC 2
13 Rate I and SC 2 Rate II was increased from \$34.80 to
14 \$44.90 and the minimum charge for SC 3 was increased from
15 \$23.80 to \$31.00 to make movement toward the ECOS study
16 customer cost indications. The SC 13 minimum charge also
17 increased since it's a function of the SC 2 minimum charge
18 in that it recovers the same annual minimum charge revenue
19 over a 7 month period, i.e., the number of months that
20 customers can take service under SC 13, instead of over a
21 12-month period.

22 Q. Please explain why the minimum charge for SC 1 was
23 increased.

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1 A. The majority of SC 1 customers use 5 therms or less per
2 month and the vast majority of SC 1 delivery revenue is
3 associated with the minimum charge. Therefore, applying
4 the revenue increase solely to the volumetric charge would
5 disproportionately affect customers using more than 5
6 therms per month.

7 Q. Please continue to describe the rate design for the non-
8 competitive charges.

9 A. After considering the amount of the delivery revenue
10 increase attributable to changes in the minimum charges,
11 the remaining non-competitive delivery revenue increase
12 within each class was allocated to the block rates as
13 follows:

- 14 • The charges for the per therm rate block for SC 1
15 (i.e., for all usage over 3 therms per month) was
16 designed to collect the balance of the revenue
17 increase assigned to SC 1.
- 18 • For SC 2 and SC 3, the Company began a gradual
19 process to flatten the declining block rate
20 structures to promote energy efficiency.
 - 21 o First, the charges for the three volumetric rate
22 blocks within SC 3 (i.e., for usage from 4 to 90
23 therms, for usage from 91 to 3,000 therms and
24 for usage greater than 3,000 therms) were

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1 changed to begin to flatten the declining block
2 rate structure in a revenue neutral manner.
3 Then the remaining revenue increase for this
4 class, after deducting the changes in annual
5 revenues attributable to the minimum charge and
6 to the air conditioning rates (as explained
7 below), was applied to the volumetric charges on
8 an equal percentage basis.

9 o The charges for the three volumetric rate blocks
10 within SC 2 Rate I and Rate II (i.e., for usage
11 from 4 to 90 therms, for usage from 91 to 3,000
12 therms and for usage greater than 3,000 therms)
13 were changed to begin to flatten the declining
14 block rate structure in a revenue neutral
15 manner. Then the remaining revenue increases
16 for SC 2 Rate I and Rate II, after deducting the
17 change in annual revenues attributable to the
18 minimum charge and to the air conditioning rates
19 (as explained below), were applied to the
20 volumetric charges on an equal percentage basis.

21 • After accounting for the change in revenues to be
22 collected through the SC 13 minimum charge, the two
23 volumetric rate blocks for SC 13 were assigned the
24 balance of the rate increase assigned to SC 13 on an

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1 equal percentage basis. Consistent with our current
2 rate design, the SC 2 and SC 3 air-conditioning rates
3 were set equal to the proposed block rates in SC 13,
4 because the air-conditioning rates apply to seasonal
5 off-peak firm gas usage as SC 13 rates do.

6 Q. Are you proposing any changes to the distributed
7 generation ("DG") rates under Riders H and J?

8 A. Yes, we are proposing to increase the non-competitive
9 delivery rates for Riders H and J as follows:

- 10 • The Rider H minimum charges (which include the first
11 3 therms of gas use), per therm rates and the
12 contract demand rate were increased on a uniform
13 percentage basis, by the SC 2 Rate I non-competitive
14 rate change percentage.
- 15 • The Rider J minimum charge applicable to SC 1 and
16 equivalent SC 9 customers was increased by the same
17 percentage increase as the SC 1 minimum charge. The
18 per therm rate for Rider J, Rate I, applicable to SC
19 1 and equivalent SC 9 customers, was increased by the
20 same percentage increase as applied to the SC 1 non-
21 competitive per therm delivery rate.
- 22 • The Rider J minimum charge and per therm rate,
23 applicable to SC 3 and equivalent SC 9 customers in
24 buildings with four or less dwelling units, were

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1 increased on a uniform percentage basis by the SC 3
2 Rider J non-competitive rate change percentage.

3 Q. Did you allocate any of the delivery revenue increase to
4 Firm Bypass customers in SC 9 or customers in SC 14?

5 A. No. Firm Bypass customers in SC 9 were not allocated any
6 portion of the rate increase because bypass rates are set
7 by contract based on the bypass customer's competitive
8 alternatives. SC 14, the rate for natural gas used in
9 vehicles, was not allocated any portion of the rate
10 increase because SC 14 customers are charged either fixed
11 rates set by contract or market-based rates reflecting the
12 competitive price of gasoline.

13 Q. Are you proposing any other rate changes?

14 A. Yes, we are proposing to update the discounts for
15 customers who commence service under Rider D, EJP, on or
16 after January 1, 2023.

17 Q. How did you determine the discounts for Rider D?

18 A. Exhibit ___ (GRP-2), Schedule 2, shows the ratio of
19 marginal costs to what is currently being recovered in
20 delivery rates. The rate discounts were based on one
21 minus the ratio of the marginal costs to the corresponding
22 revenue requirement for the respective class. This
23 results in a discount of 53% for SC 2 Rate I and a
24 discount of 40% for SC 2 Rate II. For customers

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1 commencing service under Rider D beginning on or after
2 January 1, 2023, this percentage reduction would be
3 applicable to their delivery rates. EJP discount
4 percentages have been rounded to the nearest whole
5 percentage.

6 Q. Are you proposing any changes to rates of the
7 interruptible service class?

8 A. We are not proposing to change the methodology for
9 determining delivery rates for interruptible customers
10 taking service under SC 12 Rate 1 and SC 9 Rate B. In
11 accordance with the Commission's January 16, 2020 *Order*
12 *Adopting Terms of Joint Proposal and Establishing Electric*
13 *and Gas Rate Plan* in Cases 19-E-0065 and 19-G-0066, we
14 have set the rates for the volumetric rate blocks at 70%
15 of each of the SC 2 Rate II volumetric block rates for
16 non-residential customers and 70% of each of the SC 3
17 volumetric block rates for residential customers.

18 Q. Are you proposing any changes to rates of off-peak firm
19 customers taking service under SC 12 Rate 2 and SC 9 Rate
20 C?

21 A. We are not proposing any changes to off-peak firm delivery
22 rates at this time.

23 Q. Are you proposing any other changes?

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1 A. Yes. The Company is eliminating Rider G (New York State
2 Economic Development Zones Act) and Rider I (Gas
3 Manufacturing Incentive Rate) because these Riders expired
4 on December 31, 2020. The Company currently does not have
5 any customers under these Riders.

6

7

VI. REVENUES AND BILL IMPACTS

8 Q. Having computed revised rates for each SC, have you
9 prepared exhibits showing what the estimated impact on
10 customers' bills would be under the proposed rates?

11 A. Yes, we prepared Exhibit __ (GRP-3), the first page of
12 which is entitled "CONSOLIDATED EDISON COMPANY OF NEW
13 YORK, INC. - RATE DESIGN - GAS DEPARTMENT - RATE YEAR
14 2023."

15 Q. Please continue.

16 A. Exhibit __ (GRP-3) includes four schedules that compare
17 present and proposed revenue levels and rates and show the
18 estimated impacts on customers' bills resulting from the
19 proposed rates.

20 Q. Please explain each schedule.

21 A. Exhibit __ (GRP-3), Schedule 1, shows, by service
22 classification, the Rate Year annual service class
23 revenues at current January 1, 2022 rates, the Rate Year
24 annual service class revenues at the proposed rates, and

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1 the resulting change in Rate Year service class revenues.

2 Also shown is the number of customer bills that would have
3 been increased, decreased and remain unchanged in the Rate
4 Year based upon customer data for the 12-month period
5 ended December 31, 2019. The revenues reflect an
6 estimated gas cost for both full service and
7 transportation customers.

8 Exhibit __ (GRP-3), Schedule 2, shows a comparison of the
9 current firm rates and charges, effective January 1, 2022,
10 with the proposed firm rates and charges, for SCs 1, 2, 3,
11 9, 13, and for distributed generation rates under Riders H
12 and J.

13 Exhibit __ (GRP-3), Schedule 3, shows bill comparisons by
14 service class, at the current January 1, 2022 rates and at
15 the proposed rates. It consists of tables that show
16 comparisons of monthly bills at various usage levels under
17 the current rates and charges and under the proposed rates
18 and charges.

19 The revenues and bill impacts shown in Exhibit __ (GRP-3),
20 Schedules 1 and 3 include the same gas cost, SBC and MRA
21 rates, at the forecasted Rate Year level, in the revenues
22 and bill amounts at the current revenue level and proposed
23 revenues and bill amounts in order to demonstrate the

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1 impact of the change in delivery rates on a customer's
2 total bill amount.

3 Q. Have you prepared any analyses that show the change in
4 total firm customers' bills taking into account both the
5 increase in proposed delivery rates and projections for
6 other charges, such as commodity charges?

7 A. Yes. We prepared Exhibit __ (GRP-3), Schedule 4, entitled
8 "Consolidated Edison Company of New York, Inc. Projected
9 Gas Bills." In this schedule, we show a comparison of
10 average monthly bills by service class at proposed rates
11 and charges for three 12-month periods. In these
12 comparisons, the commodity and delivery-related portions
13 are also shown. The commodity charges reflect the effect
14 of projected gas costs. The delivery charges consist of
15 projected non-competitive and competitive delivery charges
16 based on three years of projected delivery revenue
17 requirements provided by the Accounting Panel. Delivery
18 charges also include projections for various other
19 charges, such as the MRA and SBC, for each of the three
20 Rate Years.

21

22 **VII. OTHER TARIFF CHANGES**

23 Q. Are you making any tariff changes resulting from program
24 changes proposed by other Company panels in this case?

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1 A. Yes. The Panel is sponsoring tariff changes associated
2 with program changes being proposed by the Accounting
3 Panel and the GIOSP.

4 Q. Please specify the tariff changes associated with program
5 changes being proposed by the Accounting Panel.

6 A. There are various program changes in the Accounting Panel
7 testimony that require tariff changes as follows:

- 8 • The Company has updated the handling cost and
9 corporate overheads in General Information Sections
10 IV.2.(B) and (F), respectively, which list elements
11 of costs charged for special services performed by
12 the Company.
- 13 • The Company has added the Reconciliation of
14 Interference Costs to General Information Section
15 IX.4. to recover carrying charges associated with
16 interference costs that cause an exceedance of the
17 net gas plant target. The Municipal Infrastructure
18 Support Panel also further describes this change.
- 19 • The Company has added the Reconciliation of Property
20 Taxes mechanism to General Information Section IX.31.
21 to charge or credit customers the amount by which
22 actual annual property taxes differ from Commission
23 approved levels in base rates.

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- 1 • The Company has added the Unbilled Fees Adjustment to
2 General Information Section IX.6. The Company
3 proposes to recover the reconciliation of the actual
4 late payment fee revenues with Commission approved
5 levels included in base rates in 2023 and future
6 years and charge or credit any variance over a
7 subsequent twelve-month period as authorized by the
8 Commission. In addition, the Panel has included in
9 the Unbilled Fees Adjustment mechanism recovery
10 related to unbilled fees that were approved for
11 recovery through the MRA pursuant to the Commission's
12 *Order Authorizing Alternative Recovery Mechanism for*
13 *Unbilled Fees*, issued and effective November 18,
14 2021, in Cases 19-E-0065 and 19-G-0066, for clarity.
- 15 • The Company has added the Uncollectible Bill Expense
16 Adjustment to General Information Section IX.32. The
17 Company will recover the difference, plus interest,
18 between the actual annual uncollectible expense and
19 Commission approved levels in rates for the period
20 January 1, 2020 through December 31, 2025. After
21 that time, the Company may recover any under-
22 collections. Additionally, the Company proposes to
23 include the reconciliation of the non-C&C related
24 portion of the POR Discount reconciliation.

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1 Q. Please specify the tariff changes associated with program
2 changes being proposed by the GIOSP.

3 A. The Panel is also sponsoring the following tariff changes
4 associated with the program changes being proposed in the
5 GIOSP testimony:

- 6 • Added language to recover the cost of replacing
7 damaged gas meters under General Information Section
8 III.8.(X).
- 9 • Updated the inside piping survey/inspection fees
10 under General Information Sections
11 III.5.(C)(3)(ii)(a) and (b).
- 12 • Added language under General Information Section
13 III.8.(C)(2) to: (1) collect the denial of access
14 penalty for service line inspection for every billing
15 period until access is gained; and (2) allow for
16 recovery of all costs from the customer associated
17 with legal action, including payments to law
18 enforcement personnel, in regards to gaining access
19 to the Company's gas meter;
- 20 • Modified the main and service allotment for
21 residential heating customers to match the allotment
22 for other customer types/usage (i.e., 100 feet of
23 combined main and service) under General Information
24 Section III.3.(B)(3).

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- 1 • Removed the 100' of main entitlement aggregation
2 language for customers seeking service at the same
3 time under General Information Section
4 III.3.(B)(3)(b).
- 5 • Removed, under General Information Sections
6 III.3.(C)(1) and (2), the revenue test (adjusted gas
7 revenue exceeds 40 percent of cost) used to determine
8 whether a surcharge is imposed or terminated and also
9 removed the 50% percent of adjusted gas revenue
10 reduction to monthly surcharges.
- 11 • Added the definition of Local RNG Production in
12 General Information Section II and added language
13 throughout the tariff to reflect the inclusion of
14 Local RNG Production gas purchased by ESCOs into gas
15 distribution operations.
- 16 • Removed the Pipeline Safety Acts Surcharge and added
17 the Surcharge for Gas Safety Compliance under General
18 Information Section IX.28. The Company proposes to
19 recover currently unknown costs associated with
20 specified federal, state and/or local gas safety
21 requirements.
- 22 • We added additional pipelines to the market pricing
23 language for the Gas Service Curtailments provisions
24 of General Information Section III.(E) to correspond

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1 with similar language in the Company's Gas Sales and
2 Transportation Operating Procedures ("GTOP").

3 The following tariff changes related to Advanced Metering
4 Infrastructure ("AMI") were made:

- 5 • Language was removed that required Interval Metering
6 for Rider H customers. Language was also removed
7 that required Rider H customers to provide, install
8 and maintain all communications to the meter at their
9 expense, and that required Rider H customers to
10 maintain a dedicated telephone line to enable the
11 Company to obtain remote readings.
- 12 • Language was added that exempts Rider H customers
13 participating in the AMI program from being assessed
14 a fee if their communications equipment fails.
- 15 • The term "telephone lines" was replaced with
16 "communications equipment" throughout the tariff.
- 17 • Language was added to SC 12, Section (E) Customer
18 Responsibility, stating that a Customer with AMI
19 metering will not be required to install and maintain
20 associated communication equipment.

21 Q. What changes are being proposed related to the period for
22 which uncollectible bill ("UB") percentages are determined?

23 A. We propose to change various references to UB experiences
24 for electric and gas customers based on the 12-month

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1 periods ending each September. This change would affect
2 the POR discount in Miscellaneous Provision (P) of SC 20,
3 which is currently based on the 12 months ending November.
4 General Information Sections IX.8. and IX.11., related to
5 the MFC and MRA, respectively, would also need to be
6 updated in subsequent compliance filings to reflect the
7 annual updates to the UB rates and percentages.

8 Q. Why are you proposing this change?

9 A. The main driver for the proposal is to better reflect
10 changes in UB levels during the course of a rate plan. For
11 the reconciliation of the MFC and MRA, a UB level set at
12 the onset of a multi-year rate plan could change
13 significantly up or down during the term of a rate plan and
14 allowing the UB factors to refresh annually would provide
15 rate recovery more consistent and timely with actual UB
16 experiences. The change in the UB determination period for
17 the POR discount from 12 months ending November to 12
18 months ending September would provide consistency with the
19 changes to the MFC and MRA provisions. Since the UB
20 factors for the MFC and MRA provisions would be included in
21 compliance tariff filings, which are typically filed in
22 early December, for each rate year, the 12-month period
23 through September will allow the updates for all three

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1 tariff provisions to be included with each compliance
2 tariff filing.

3 Q. What other tariff changes are being sponsored by the Gas
4 Rate Panel?

5 A. The following additional Gas Rate Panel sponsored tariff
6 changes are summarized below:

- 7 • We have updated General Information Section IX.14. to
8 include interest on the monthly accrual and deferral
9 balance for the purpose of calculating the RDM
10 Adjustment. The interest will be calculated at the
11 Other Customer Capital rate. This change is
12 consistent with the Company's determination of the
13 electric RDM Adjustment. This section was also
14 revised to eliminate past period RDM revenue targets
15 and to add the framework for a list of RDM revenue
16 targets for the period January through December 2023.
17 These targets have been shown as "TBD" since they
18 have not yet been calculated.
- 19 • As discussed in the Rate Design section above, tariff
20 changes have been made to specify the revised EJP
21 discounts we are proposing under Rider D and their
22 effective dates.
- 23 • The Low Income Reconciliation Adjustment, under
24 General Information Section IX.10., has been updated

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1 to conform to the Energy Affordability Program
2 ("EAP") Budget of \$35.393 million (an increase of
3 \$10.7 million from the current level in rates of
4 \$24.6 million) adopted in the Commission's *Order*
5 *Adopting Energy Affordability Policy Modifications*
6 *and Directing Utility Filings*, in Cases 14-M-0565 and
7 20-M-0266, issued August 12, 2021.

8 Q. Please describe any housekeeping changes you are making.

9 A. The housekeeping changes are as follows:

- 10 • We eliminated the tariff provisions and references
11 related to the Interruptible Temperature Control
12 option in SC 12 and the equivalent transportation SC
13 (i.e., SC 9) as approved in Case 19-G-0066.
- 14 • We eliminated the tariff provisions regarding the
15 annual interruptible reconciliation of the
16 Interruptible Rate 1 customers for SC 12 and the
17 equivalent transportation SC (i.e., SC 9) as approved
18 in Case 19-G-0066.
- 19 • We eliminated delivery rates that have expired and
20 are no longer being offered under SC 12 Rate 2 and
21 the equivalent transportation SC (i.e., SC 9).
- 22 • On Leaf 378, we added the days of exclusion to the
23 pricing of the Cashout Credit and Charges for
24 Interruptible Daily Balancing in SC 20 similar to the

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1 pricing of the Cashout Credit and Charges for
2 Interruptible Monthly Balancing.

3 • Because Rider E - Low Income Program, is available to
4 qualifying residential customers, including those
5 taking service under Rider J, Residential Distributed
6 Generation Rate, we have revised the applicability
7 section of Rider E to include customers taking
8 service under Rider J Rates I and II and SC 9 Rate
9 (A)(10). We also added the Low Income Discount to
10 the lists of rates in Rider J, Rates I and II.

11 • For clarification, on Leaf 349, we add language
12 referencing all charges applicable in the
13 determination of the penalty rate under SC 13
14 Seasonal Off-Peak Firm Service.

15 • On Leaves 232 and 241, we added language to the
16 Reconciliation of Minimum Charge provisions
17 applicable to Dual Fuel Firm Service in SCs 2 and 3
18 to clarify that, in no event shall the customer be
19 charged less than the amount based on their actual
20 consumption during the 12-month period.

21 • For clarification, on Leaves 230, 235 and 235.1, we
22 added exemptions to the SC 2 ratio calculation that
23 were previously approved in Case 16-G-0061.

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- 1 • For clarification, we added the WNA to the list of
2 charges applicable to SC 2 Rate II, SC 3, Rider D and
3 Rider J Rate II, where applicable. Since the WNA is
4 applicable to SC 3 customers, including those taking
5 service under Rider J, Residential Distributed
6 Generation Rate, references to the WNA were added to
7 the list of rates under Rider J Rate II. In
8 addition, changes were made to Special Adjustment
9 IX., Weather Normalization Adjustment, to clarify the
10 penultimate pure base rate to be used in the WNA
11 calculation for Rider J Rate II customers.
- 12 • In SC 12, we made clarifying edits to the delivery
13 and commodity rate descriptions under Interruptible
14 Base Rate (Rate 1) on Leaf 332, and to the commodity
15 rate description under Off-Peak Firm Rate (Rate 2) on
16 Leaf 333.
- 17 • In SC 20 (Leaf 378), we made a clarifying edit to the
18 description of the cost of gas used to determine
19 cashout charges for interruptible daily balancing
20 service to conform to language existing in the GTOPI.
- 21 • We eliminated Rider G (New York State Economic
22 Development Zones Act) and Rider I (Gas Manufacturing
23 Incentive Rate) and references to these riders

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1 throughout the tariff because these Riders expired on
2 December 31, 2020.

3 • We modified the reconnection fee waiver language in
4 General Information Section III.8.(V) to continue the
5 requirement for the Company to notify parties if the
6 target cost will be reached in any rate year. A
7 reference to a specific case number was replaced with
8 "in its most recent gas rate plan."

9 • We eliminated in General Information Sections
10 VII.(A)1.(a)(i) and VII.(A)2.(a)(vi) obsolete
11 references to revenue resulting from rates in effect
12 prior to October 1, 2010.

13 • We eliminated in General Information Section IX.7. an
14 obsolete reference to the Transition Adjustment for
15 Competitive Services in effect prior to January 1,
16 2019.

17 Q. Are you recommending any housekeeping changes to General
18 Information Section IX Special Adjustments of the tariff?

19 A. Yes. The Panel is recommending the following obsolete
20 Special Adjustments be removed from General Information
21 Section IX of the tariff along with any references
22 throughout the tariff to such Special Adjustments:

23 • General Information Section IX.4., Transition
24 Surcharge for Capacity Costs;

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- 1 • General Information Section IX.6., Load Following
- 2 Charge;
- 3 • General Information Section IX.17., Tax Sur-credit;
- 4 • General Information Section IX.20., Delivery Revenue
- 5 Surcharge; and,
- 6 • General Information Section IX.31., Manhattan
- 7 Transmission Project Surcharge.

8 Also, General Information Section IX.19., Other Non-
9 Recurring Adjustments, is being updated to remove the
10 reference associated with the credit resulting from Case
11 10-G-0100 and approved by the Commission in Case 09-G-
12 0795.

13 Q. Are you updating the line loss factor and Factor of
14 Adjustment at this time?

15 A. No. Since the Factor of Adjustment is updated each
16 January based upon the average of actual line losses for
17 the preceding five 12-month periods ending August, we do
18 not have the values at this time. This will be updated at
19 a later stage in this proceeding. We therefore revised
20 General Information Section VII.(A)1.(d) to remove a
21 specific reference to Case 19-G-0066 and a specific factor
22 of adjustment.

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VIII. RATE CASE ENHANCEMENTS PROJECT

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- Q. Is the Panel proposing any systems initiatives?
- A. Yes, as discussed in the testimony of the Demand Analysis and Costs of Service Panel filed in the Company's electric rate case, the Customer Usage System ("CUS") project is common to both gas and electric services. As discussed in the whitepaper, this project provides gas-related load research and rate design benefits. For example, additional customer interval data made available through the gas AMI program will enable the retrieval and analysis of billing determinants for the design and evaluation of potential alternate gas rate structures.
- Q. Does this conclude your direct testimony?
- A. Yes, it does.

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I. INTRODUCTION

1 Q. Would the members of the Gas Forecasting Panel please
2 state their names and business address?

3 A. John Catuogno, Patrick F. Hourihane, Robert Downes, and
4 Johan Tolosa, 4 Irving Place, New York, New York 10003.

5 Q. By whom are you employed, in what capacity, what are your
6 professional backgrounds and qualifications, and describe
7 your current responsibilities?

8 A. (**Catuogno**)

9 We are employed by Consolidated Edison Company of New
10 York, Inc. ("Con Edison" or the "Company"). I am Director
11 of Commodity Forecasting in Energy Management. I
12 graduated from Polytechnic University with a Bachelor of
13 Science degree in Mechanical Engineering in 1991 and with
14 a Master of Science degree in Management in 2002. I have
15 also completed the Siemens PTI power system
16 transmission course/certification.

17 I am a licensed Professional Engineer in the State of
18 New York and an Adjunct Assistant Professor in the
19 Mechanical Engineering Department of Manhattan College,
20 where I present graduate lectures on energy and
21 sustainability.

22 I joined Con Edison in 1991 as a Management Intern and
23 have held various positions of increasing responsibility

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1 in the Fossil Power, Nuclear Power Engineering, Energy
2 Management, and Steam Operations Departments. Since
3 December 2013, I have been the Director of Energy
4 Management's Commodity Forecasting Department. My
5 responsibilities include oversight of daily peak, annual
6 peak, monthly/annual energy revenue and volume forecasts
7 for the electric, gas, and steam systems; and technical
8 and analytical support for long range plans, strategies,
9 and industry trends and issues that affect the Company.
10 (**Hourihane**) I am Section Manager of Gas and Steam
11 Forecasting of Commodity Forecasting Department in Energy
12 Management. My background is as follows: I received a
13 Bachelor of Arts Degree in History from Saint Meinrad in
14 1974 and a Master's Degree in Energy Management from New
15 York Institute of Technology in 2000. In 1975, I joined
16 Con Edison in the Customer Service Department. Between
17 1978 and 2005, I worked in positions of increasing
18 responsibility in the Customer Service and Energy
19 Management Departments working on such projects as the
20 electric governmental forecast and gas sales forecast.
21 In 2005, I transferred to the Rate Engineering
22 Department. In December 2006, I was promoted to Section
23 Manager of Electric Volume and Revenue Forecasting. In
24 July 2017, I assumed my present position. My

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1 responsibilities include overseeing the development of
2 the gas delivery volume and revenue forecast.

3 **(Downes)** I am a Senior Planning Analyst of Gas and Steam
4 Forecasting in Energy Management. My background is as
5 follows: I received a Bachelor's degree in Economics from
6 East Carolina University in 2009. I also received a
7 Master of Science in Economics degree from East Carolina
8 University in 2010. Prior to joining Con Edison, I
9 worked at Seattle City Light where I was responsible for
10 producing the utility's electric volume and peak
11 forecasts as well as forecasts of the local economy. In
12 2016, I joined Con Edison gas forecasting where I work on
13 developing econometric time series models and gas
14 forecasts for Con Edison.

15 **(Tolosa)** I am a Senior Planning Analyst of Gas and Steam
16 Forecasting in Energy Management. My background is as
17 follows: I graduated from the City College of New York
18 with a Bachelor of Engineering degree in Mechanical
19 Engineering in 2009. I also received a Master of Science
20 degree in Finance from Pace University in 2016. I joined
21 Con Edison in 2009 as a management intern (GOLD
22 associate) where I had assignments in the Steam and the
23 Electric Operations departments. After graduating the
24 program, I took a permanent position as an Associate

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1 Engineer in Central Engineering supporting Steam
2 Operations from 2011 to 2015. In June 2015, I became an
3 Operating Supervisor for the Gas Conversions group in Gas
4 Operations where I worked until the end of 2017. I
5 joined and assumed my current position in the Energy
6 Management department in Decemeber 2017 where I have had
7 various roles. My responsibilities include the
8 production of a long term, firm peak demand forecast for
9 natural gas in Con Edison; the preparation of technical
10 and anayltical studies related to natural gas in our
11 service territory; and feasibility studies of different
12 technologies in our service territory along with their
13 impact on our natural gas system.

14 Q. Have you previously submitted testimony to the New York
15 State Public Service Commission ("Commission")?

16 A. **(Catuogno)** I submitted testimony in Case Nos. 21-G-0073,
17 21-E-0074, 19-E-0065, 19-G-0066, 18-E-0067, 18-G-0068,
18 16-E-0060, 16-G-0061, 13-S-0032, 09-S-0794, 09-S-0029,
19 and 07-S-1315.

20 **(Hourihane)** I testified in Case Nos. 13-E-0030, 10-E-
21 0362, 08-E-0539, and 07-E-0523 and submitted testimony in
22 Case Nos. 21-G-0073, 19-G-0066, 18-G-0068, 16-E-0060, 15-
23 E-0050, 11-E-0408, 09-E-0428, and 07-E-0949.

24 **(Downes)** I submitted testimony in Case No. 19-G-0066.

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1 **(Tolosa)** No.

II. PURPOSE OF TESTIMONY

2 Q. What is the purpose of the Gas Forecasting Panel's
3 testimony in this proceeding?

4 A. The Gas Forecasting Panel's testimony presents the
5 Company's forecast of gas delivery volumes (both full
6 service and transportation combined), and revenues for
7 the 12 months ending December 31, 2023 ("Rate Year") also
8 known as ("RY1"), and two additional 12-month periods
9 ending December 31, 2024 and December 31, 2025 (which we
10 refer to as "RY2" and "RY3," respectively). The
11 testimony explains the development of these forecasts
12 starting from the 12 months ending September 30, 2021
13 ("Historic Year" or "Base Period"), and the key factors
14 expected to impact future delivery volumes through the
15 end of RY3.

16 Q. What was the adjusted actual and weather normalized firm
17 delivery volume for the 12 months ending September 2021?

18 A. The adjusted actual firm delivery volume for the 12
19 months ending September 2021 was 158,086 thousand
20 dekatherms ("MDt"). The weather and water normalized
21 firm delivery volume for this same period was 164,901
22 MDt.

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1 Q. Will you please summarize, in aggregate form, your firm
2 delivery volume forecast?

3 A. The firm delivery volume forecast for the three months
4 ending December 2021 is 39,871 MDt. The firm delivery
5 volume forecast for the 12 months ending December 2022 is
6 167,528 MDt. The firm delivery volume forecast are
7 171,522 MDt for 12 months ending December 2023 (i.e.,
8 RY1), 173,019 MDt for the 12 months ending 2024 (i.e.,
9 RY2), and 171,445 MDt for the 12 months ending 2025
10 (i.e., RY3). The drivers of the changes in the
11 forecasted volumes are discussed further in Section IV.

12 Q. What is the purpose of the delivery volume and sendout
13 forecast?

14 A. The firm delivery volume forecast is used to determine
15 the revenue forecast. The sendout forecast is also used
16 by Company witness Kathleen Trischitta to develop a gas
17 supply cost forecast.

18 Q. Do you have any exhibits that accompany this testimony?

19 A. Yes, we are presenting four exhibits, Exhibit ___(GFP-1)
20 through Exhibit ___ (GFP-4).

21 Q. Were these four exhibits prepared under the Panel's
22 direction and supervision?

23 A. Yes. We describe each of these exhibits below in our
24 testimony.

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III. DELIVERY VOLUMES BY SERVICE CLASSIFICATION

1 Q. Which customers are included in the delivery volume
2 forecast?

3 A. Both firm and non-firm customers are included in the
4 delivery volume forecast. Firm customer classes include:

- 5 • SC-1 - Residential and religious customers;
- 6 • SC-2 - Rate 1 (General commercial and industrial
7 customers);
- 8 • SC-2 - Rate 1 Rider H (General commercial and
9 industrial customers);
- 10 • SC-2 - Rate 2 (General commercial and industrial
11 customers);
- 12 • SC-3 - Residential (1 to 4 family dwelling units);
- 13 • SC-3 - Residential Rider J (1 to 4 family dwelling
14 units);
- 15 • SC-3 - Residential (>4 family dwelling units);
- 16 • SC-13 - Seasonal off-peak water heating;
- 17 • SC-14 - Natural gas vehicles; and
- 18 • Special Contract Customers.

19 Non-firm (Interruptible) customer classes include:

- 20 • SC-9 - Transportation service customers who would
21 otherwise take SC-12 service;
- 22 • SC-12 Rate 1 - Non-firm (interruptible) customers; and

GAS FORECASTING PANEL

- 1 • SC-12 Rate 2 - Off-peak firm customers.

IV. FIRM VOLUME FORECAST

2 Q. What are the key factors expected to impact future gas
3 delivery volume?

4 A. The key factors expected to impact future gas delivery
5 volume in the various service classifications are:

- 6 • Historic Year volume;
- 7 • The assumption of normal weather conditions;
- 8 • The assumption of an annual climate change impact to
9 the normal weather conditions used for the first year
10 of the forecast;
- 11 • The assumption of normal water temperature;
- 12 • The number of annual billing days;
- 13 • New Business - including oil-to-gas conversions;
- 14 • Energy Efficiency including both programmatic and
15 organic;
- 16 • Electrification of heating load;
- 17 • Electrification of non-heating natural gas load; and
- 18 • COVID impact.

19 Q. Were any adjustments made to the Historic Year volume?

20 A. Yes. The Historic Year volume was adjusted for:

- 21 • Normalizing the impact of actual weather conditions to
22 a 30-year average condition measured in Heating Degree

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1 Days;

2 • Normalizing the impact of actual water temperature to
3 a historical average of water temperature condition
4 measured as an average cycle water temperatures;

5 • Transferring of customers between non-firm service and
6 firm service;

7 • Theft of service;

8 • Seasonal adjustment of A/C volumes;

9 • Manual adjustments of large volumes to account for
10 cancellation and rebilling from prior periods; and

11 • Billing days.

12 Q. Please explain why each of these adjustments is made.

13 A. The weather normalization adjustment is performed to
14 adjust volumes to the 30 years ending 2020 normal level
15 of Heating Degree Days. The Company used a 30-year
16 normal of Heating Degree Days in accordance with the
17 Commission's requirement in the *Order Approving Electric,*
18 *Gas and Steam Rate Plans in Accord with Joint Proposal,*
19 *in Case 16-G-0061, et al.* We calculated the monthly
20 impact on firm delivery volume for firm heating service
21 classifications by multiplying the variation between
22 normal and actual Heating Degree Days, measured on a
23 billing cycle basis, by a use per heating degree-day per

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1 bill factor times the actual number of bills by
2 applicable service classification.

3 Q. How is average weather normalized use per bill
4 calculated?

5 A. Con Edison calculates the average weather normalized use
6 per bill by dividing monthly volume in the Historic Year
7 by the monthly number of bills during the Historic Year.
8 This is then divided by the number of billing days in the
9 month.

10 Q. What did you do next with the Heating Degree Day
11 calculation?

12 A. We used a regression analysis of the adjusted actual
13 monthly billed volumes per customer per billing day
14 versus actual monthly billing cycle heating degree days
15 per billing day to determine the factors by service
16 classification.

17 • We performed the water normalization adjustment to the
18 Base Period volume for deviations from normal average
19 water temperatures to the actual average water
20 temperatures to adjust for the impact on water heating
21 requirements. The Adjustment for SC-1 and SC-2 rate 1 is
22 for all 12 months. The water adjustments for SC-2 rate 2
23 and SC-3 cover the three summer months July - September
24 that are outside the weather normalization discussed

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1 above for these two service classes. We determined the
2 usage per degree of average water temperature factors for
3 the average customer of each class by regression
4 analysis, which demonstrated a correlation between sales
5 and water temperature. We applied these factors in a
6 similar manner as the space heating factors were applied
7 in the weather normalization adjustment to derive the
8 water normalization adjustment.

9 • We made adjustments to account for customers transferring
10 from non-firm to firm service during the Base Period. We
11 performed this adjustment to annualize the transfers
12 occurring in the historic period. These customers moved
13 either electively or because their gas usage did not meet
14 interruptible tariff terms.

15 • We performed adjustments to remove theft of service
16 volumes from the Historic Year.

17 • We performed seasonal adjustments for air conditioning
18 volumes where billing is outside the cooling season.

19 • We performed billing adjustments that smooth out large
20 billing cancellations and re-billings to reflect what the
21 actual volumes would have been on a monthly basis.

22 Q. Please discuss the adjustment to billing days.

23 A. We performed the adjustment for the number of billing days
24 to account for the difference between the number of days

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1 billed in the Historic Year versus the number of expected
2 billing days in each forecast Year.

3 Q. Please discuss the adjustment to the 30-year normal to
4 reflect the impact of Climate Change.

5 A. After using the 30-year normal ending 2020 to adjust
6 volumes for the test year, we reviewed the Company's
7 industry-leading proactive Climate Change Vulnerability
8 Study (conducted in 2019) and determined the annual rate
9 of climate change to get to the Study's 2030 normal.
10 Using that change, we adjusted the normal used for the
11 test and bridge years to reflect a new climate normal for
12 RY1 (2023), RY2 (2024), RY3 (2025), and continued for
13 years 2026 and 2027 to complete the Company six-year
14 forecast.

15 Q. Please explain the electrification of heating.

16 A. The adjustment reflects the Company's estimated impact of
17 gas customers converting their heating systems to use
18 electric service in support of the initiatives outlined in
19 the Climate Leadership and Community Protection Act and
20 Local Law 97. Commercial SC-2R2 customers and associated
21 volumes along with Residential Heating SC-11 and SC-31
22 customers and associated volumes are adjusted in the
23 forecast to reflect the loss of gas heating as customer
24 switch to electrify their heating.

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1 Q. Please explain the electrification of non-heating.

2 A. This adjustment reflects the Company's estimated impact of
3 gas customers that will convert their gas stoves, gas
4 dryers, and gas water heaters to use electric service in
5 support of the initiatives to reduce greenhouse gas
6 emissions. Commercial SC-2R1 customers and Residential
7 SC-1 customers are adjusted to reflect the loss of
8 forecasted non-heating gas customers and associated
9 volumes for the electrification of appliances.

10 Q. Does COVID-19 have any impact on the customer and delivery
11 volume forecast?

12 A. Yes. The effects of COVID-19 are adjusted in the
13 Company's customer and volume forecast. The Company's
14 adjustment is necessary because the base year (12 months
15 ending September 2021) still reflects much of the impact
16 of customers leaving the service territory and changing
17 service classes. From March 2020 through May 2021, SC-1
18 Residential non-heating was reduced by more than 26,000
19 customers. The Commercial SC-2R1 increased by more than
20 13,000 customers for this period as the landlord (if
21 known) is placed on record as the responsible party until
22 the vacant unit is occupied and returned to SC-1
23 Residential non-heating. In the period June 2021 through
24 September 2021, the Company has seen a gradual reversal as

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1 potential new customers move back into the service
2 territory and customers originally in SC-1 Residential
3 convert away from SC2-R1 Commercial back to their original
4 service class. The Company's forecast continued this
5 movement, returning these two service classes to their
6 pre-pandemic number of customers during the three month
7 forecast for October 2021 through December 2021 and the
8 bridge year 2022.

9 Q. Were there any other adjustments related to the effects of
10 the COVID-19 pandemic?

11 A. Yes. The panel also adjusted rate class specific monthly
12 average use per customer when forecasting the volume
13 impact of customer growth and an adjustment for the base
14 period's usage. Instead of using the average use per
15 customer witnessed during the forecast's base period, the
16 pre-pandemic (April 2019 - March 2020) monthly average use
17 per customer was used in forecasting the volume impact of
18 customer growth by service classification. The second
19 COVID adjustment using average usage per customer was made
20 to the SC-2 rate 1 and SC-2 rate 2 customer classes to
21 account for the decline of average use experienced in
22 these commercial service classifications due to the
23 pandemic. Upward adjustments to volumes were made in both
24 of these service classes by taking the difference of the

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1 average usage per customer that pre-dated the pandemic
2 from the base period's average usage per customer for each
3 service class. This was then multiplied by the number of
4 customers in the service class. These volume impacts were
5 phased in at 50% for 12 months ending 2022 and fully
6 implemented commencing with RY1 (2023).

7 Q. Does that conclude the Company's attempts to account for
8 the impact of the COVID-19 pandemic?

9 A. No. The panel also accounted for COVID-19's impact on
10 customer growth in its regression equation used to
11 forecast customer growth for the SC2 R2 commercial heating
12 service classification. A dummy variable using Google
13 mobility data was deemed statistically significant in
14 estimating the equation used to forecast these customers.
15 Please reference testimony from the Electric Forecasting
16 Panel 22-E-XXXX for further details on this data.

17 Q. Have you prepared an exhibit showing the RY1 firm gas
18 volumes?

19 A. Yes, we prepared a three-page Exhibit ____ (GFP-1), the
20 first page of which is titled "CONSOLIDATED EDISON COMPANY
21 OF NEW YORK, INC. - DEVELOPMENT OF 12 MONTHS ENDING
22 DECEMBER 31, 2023 - FORECASTED FIRM GAS VOLUMES (MDts)"
23 with this information.

24 MARK FOR IDENTIFICATION AS EXHIBIT ____ (GFP-1)

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1 Q. Please describe page 1, line 1 of Exhibit ____ (GFP-1).

2 A. Page 1, line 1 of Exhibit ____ (GFP-1) shows the adjusted
3 actual firm gas volumes recorded during the Historic Year
4 on a service classification basis.

5 Q. Please describe page 1, line 2 of Exhibit ____ (GFP-1).

6 A. Page 1, line 2 of Exhibit ____ (GFP-1) shows the adjusted
7 volumes associated from the weather normalization.

8 Q. Please describe page 1, line 3 of Exhibit ____ (GFP-1).

9 A. Page 1, line 3 of Exhibit ____ (GFP-1) shows the adjusted
10 volumes associated from the water normalization. Water
11 temperatures during the Historic Year were warmer than
12 normal. As a result, the Historic Year delivery volumes
13 were lower than they otherwise would have been under
14 normal conditions. This resulted in an upward adjustment
15 to firm volumes of 281 Mdt.

16 Q. Please explain the annualization adjustment labeled
17 "Transfers From Interruptible Service" on line 5.

18 A. The delivery volumes on line 5 reflects the net of delivery
19 volumes of customer movement between firm and interruptible
20 service during the Historic Year.

21 Q. Please explain line 6 "Billing Schedule Adjustment."

22 A. The Billing Schedule Adjustement represents the
23 variations in the meter reading schedule from Historic
24 Year to the rate years.

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1 Q. What does line 7, "Base Estimate" represent?

2 A. The Base Estimate represents the Historic Year volume
3 with the adjustments described previously in this
4 section. The Base Estimate is the starting point for the
5 Rate Year's firm delivery volume forecast. We then apply
6 the adjustments described below to develop the firm
7 delivery volume forecast.

8 Q. Please explain the "Oil to Gas Conversions" forecast
9 shown on line 8.

10 A. The Oil to Gas Conversions forecast are forecasted
11 volumes for anticipated new business from customers
12 converting to natural gas from heating oils.

13 Q. What is the New Business forecast on line 9?

14 A. The forecast on line 9:

- 15 (1) annualizes the volumes associated with customers
16 added or lost during the Historic Year that were not
17 fully realized in the Historic Year and customers
18 that have switched from one service class to another
19 as mentioned previously in this testimony; and
20 (2) estimates the expected volume to be realized in the
21 Rate Year associated with new construction.

22 Q. Please explain how the New Business forecast was
23 developed.

24 A. The New Business volume forecast begins with a forecast

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1 of the number of customers for SC-1, SC-2 rate 1, SC-2
2 rate 2, and SC-3 split between 1 to 4 dwelling units and
3 greater than 4 dwelling units.

4 As mentioned previously in this testimony, we also used
5 the weather-normalized average use per customer during
6 the period of April 2019 - March 2020. This period was
7 used to reflect average use not impacted by changing
8 customer behavior during the COVID-19 Pandemic. We
9 multiplied the weather-normalized average use by the
10 forecast of the number of customers resulting in the New
11 Business forecast.

12 Q. In developing the New Business volume forecast, how was
13 the forecast of customers developed?

14 A. We developed the forecast of customers primarily based on
15 time-series econometric regression models using customer
16 count history. Regression models were used to forecast
17 customers for service classifications SC-1 - Residential
18 and religious customers, SC-2 rate 1 (General commercial
19 and industrial customers), SC-2 rate 2 (General
20 commercial and industrial customers), SC-3 - Residential
21 (1 to 4 family dwelling units), and SC-3 - Residential
22 (>4 family dwelling units). These regressions by service
23 classification used historical customer data as dependent
24 variables. We adjusted the historical customer counts

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1 for historical oil-to-gas conversions in service
2 classifications SC-2 rate 2 (General commercial and
3 industrial customers), SC-3 - Residential (1 to 4 family
4 dwelling units), and SC-3 - Residential (>4 family
5 dwelling units) to account for the Company's programs
6 that provide incentives to customers who convert from
7 heating oils. Additionally, we accounted for inactive
8 accounts in service classification SC-2 rate 1 (General
9 commercial and industrial customers).

10 Q. Explain how you developed the 30-day bills forecast.

11 A. We created the 30-day bills forecast in this filing by
12 converting the customer forecast as mentioned previously
13 in the description of the New Business Forecast in this
14 section. We developed an analysis of the historical
15 relationship between customers and 30-day bills. We used
16 this analysis to create the 30-day bills forecast.

17 Q. What is the "Energy Efficiencies" forecast shown on line
18 10?

19 A. The Company's Energy Efficiency Department develops the
20 Energy Efficiency forecast. This forecast reflects the
21 expected impact of energy efficiency plans and programs
22 as well as forecasted non-programmatic organic
23 conservation by customers in the service territory.

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1 Q. Please explain the basis of the "Energy Efficiencies"
2 forecast shown on line 10.

3 A. The Company develops the forecast based on programs and
4 plans that include: New Efficiency: New York (NE:NY) and
5 Clean Heat programs. In addition, the forecast includes
6 expected savings from the New York State Energy Research
7 and Development Authority. These programs provide
8 resources and incentives to the residential (1 to 4
9 dwelling units), multi-family and commercial customer
10 segments to promote energy efficiency. The Company also
11 develops a forecast of organic, or non-programmatic
12 energy efficiency that customers pursue without the aid
13 of the programs mentioned previously.

14 Q. Please explain the basis of the "Electrification"
15 forecast shown on line 11.

16 A. The Electrification on line 11 forecasts the Company's
17 forecasted reduction in gas delivery volume related to
18 existing and future customers switching from gas to
19 electric service for both heating and non-heating
20 purposes.

21 Q. Did the Company consider the recently enacted New York
22 City legislation that generally bans the submission of
23 applications for new natural gas connections within city
24 limits beginning on January 1, 2024?

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1 A. Yes. However, the Company does not expect this
2 legislation will have a material effect on forecasts for
3 this rate plan period. The Company will continue to
4 examine the impact of this legislation and will adjust
5 its forecast in the update, if necessary.

6 Q. Please explain the basis of the "Climate Change" forecast
7 shown on line 12.

8 A. The Climate Change forecast on line 12 represents changes
9 to normal weather as climate change impacts the region.
10 The expected decrease in future heating degree days is
11 represented in this portion of the Panel's forecast and
12 is detailed in a prior section of this testimony.

13 Q. Please explain the basis of the "COVID Adjustment"
14 forecast shown on line 13.

15 A. As mentioned previously in this testimony, the Company
16 has made an adjustment to account for the change in the
17 average usage per customer in the SC-2 rate 1 and SC-2
18 rate 2 customer classes to account for the decline of
19 average use experienced in these commercial service
20 classifications due to the pandemic. Upward adjustments
21 to volumes were made in both of these service classes by
22 taking the difference of the average usage per customer
23 that pre-dated the pandemic from the base period's
24 average usage per customer for each service class. This

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1 was then multiplied by the number of customers in the
2 service class. These volume impacts were phased in at
3 50% for 12 months ending 2022 and fully implemented
4 commencing with RY1 (2023).

5 Q What do pages two and three of Exhibit (GFP-1) show?

6 A. These pages quantify the impacts that the forecast
7 drivers previously discussed in this section are expected
8 to have on RY2 and RY3, respectively.

9 Q. Based on page one of Exhibit __ (GFP-1), what are the
10 projected firm delivery volumes for the Rate Year?

11 A. Line 14 on page one of Exhibit __ (GFP-1) summarizes the
12 firm delivery volume forecast for the Rate Year. Firm
13 delivery volume is estimated to total 171,522 MDt. This
14 represents an increase of 7,890 MDt over the Historic
15 Year's volume adjusted to normal weather, water,
16 transfers to and from interruptible, and billing schedule
17 adjustments.

18 Q. Are the volumes shown by service classification and in
19 total on page one of Exhibit __ (GFP-1) the volumes the
20 Panel is recommending to be used for rate setting
21 forecasting?

22 A. Yes. These are the service class delivery volumes for
23 this rate filing.

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V. NON-FIRM (INTERRUPTIBLE) VOLUME FORECAST

1 Q. How was the volume projected for SC-12 rate 1 Non-Firm
2 (Interruptible) and SC-12 rate 2 Off-Peak Firm developed?

3 A. We developed the forecast of the future volume for SC-12
4 rate 1 Non-Firm (Interruptible) and SC-12 rate 2 Off-Peak
5 Firm by making adjustments to the Historic Year volumes.

6 These adjustments include:

7 (1) a weather adjustment that was computed in a manner
8 similar to the weather normalization adjustments for
9 the weather sensitive firm rate classifications;

10 (2) an adjustment for the service interruptions that
11 occurred within the Historic Year for the
12 interruptible service classes; and

13 (3) an adjustment for the transfer of customers between
14 interruptible and firm service discussed earlier.

15 Q. Based on Exhibit __ (GFP-3), described later, what are
16 the projected non-firm sendout volumes for the Rate Year?

17 A. Line 13 of Exhibit __ (GFP-3 page 1) summarizes the non-
18 firm sendout volume forecast for the Rate Year. We
19 forecast that Non-Firm sendout volume will be 24,753 MDt.

VI. REVENUE FORECAST

20 Q. Was Exhibit ____ (GFP-2)and (GFP-3), which is entitled
21 "CONSOLIDATED EDISON COMPANY OF NEW YORK, INC. -

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

GAS FORECASTING PANEL

1 FORECASTED GAS VOLUMES AND REVENUES," prepared under the
2 Gas Forecasting Panels supervision and direction?

3 A. Yes. They were.

4 MARK FOR IDENTIFICATION AS EXHIBIT ____ (GFP-2) and
5 (GFP-3)

6 Q. Please explain what page 1 of Exhibit ____ (GFP-2) shows?

7 A. Page 1 shows forecasted volumes and revenues for the
8 three months ended December 31, 2021 at January 1, 2021
9 rates.

10 Q. What does column 1 "Gas Delivery Volumes (MDt)" of this
11 exhibit show?

12 A. Column 1 shows by service classification grouping the gas
13 volumes forecasted for the three months ending December
14 31, 2021.

15 The firm gas service classifications are:

- 16 • SC-1 - Residential and Religious;
- 17 • SC-2R1 - General Commercial and Industrial;
- 18 • SC-2R1 - Rider H - General Commercial and Industrial
19 (customer using gas service for on site Distributed
20 Generation);
- 21 • SC-2R1 - Contract General Commercial and Industrial
22 (non-heating);
- 23 • SC-2R2 - General Commercial and Industrial
24 (heating);

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

GAS FORECASTING PANEL

- 1 • SC-3 - Residential and Religious (heating);
- 2 • SC-3 - Rider J - Residential and Religious
- 3 (customer using gas service for on site generation);
- 4 • SC-13 - Seasonal Off Peak Water Heating; and
- 5 • SC-14 - Natural Gas Vehicles.

6 Column 1 also shows projected SC 12 Rate 1 Non-Firm and
7 SC-12 rate 2 Off-Peak Firm volumes for the three months
8 ending December 31, 2021.

9 Q. Please explain how the Base Revenues, shown in column 2
10 on page 1, for firm related volumes were determined.

11 A. For SC-1, SC-2 rate 1, SC-2 rate 2, SC-3, and SC-13, we
12 computed the forecasted Base Revenues by month on a
13 billing determinant basis. The forecast is the product
14 of three steps:

15 (1) the estimated number of 30-day bills associated with
16 the forecasted usage is multiplied by the minimum
17 charge rate to obtain minimum charge revenues;

18 (2) the forecast usage is broken down into usage by rate
19 block and multiplied by the associated rates as they
20 appear in the Company's gas rate leafs for each rate
21 block; and

22 (3) the minimum charge revenues and block charge
23 revenues are summed to obtain total Base Revenues.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

GAS FORECASTING PANEL

1 The air conditioning volumes of certain customers within
2 these service classifications are charged lower rates for
3 associated incremental volumes and were priced separately.
4 Volumes to distributed generation customers and contract
5 customers were priced according to their appropriate
6 rate/contract terms. The volumes related to SC-14 were
7 priced at the rate in effect at the time the forecast was
8 developed.

9 Q. Please explain how the Base Revenues related to the
10 projected volumes for SC-12 rate 1 Non-Firm were
11 determined.

12 A. SC-12 rate 1 Non-Firm Base Revenue was calculated by
13 separating the service classification customers into
14 commercial and residential. Volumes were then broken
15 down into usage by rate block and multiplied by the
16 associated rates as they appear in the Company's gas rate
17 leafs for each rate block.

18 Q. Please explain how the Base Revenues, shown in column 2,
19 related to the projected volumes for SC-12 rate 2 Off-
20 Peak Firm, were determined.

21 A. SC-12 rate 2 Non-Firm Base Revenue was provided by
22 Accounting reflecting the base period's actual revenue.

23 Q. Please describe the revenues shown in columns 3,4,5,6,
24 and 7 on page 1.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

GAS FORECASTING PANEL

1 A. Column 3 on page 1 shows Competitive Charges, which are
2 the associated Merchant Function charges for Supply,
3 Credit and Collections, plus Billing and Payment
4 Processing revenues. Column 4 through 7 on page 1 are
5 revenues supplied by Financial Planning and Analysis for
6 this Exhibit. Column 4 that is listed as "Other Charges"
7 include various components of Monthly Rate Adjustment,
8 Uncollectible Bills, Purchase of Receivables. Column 5 is
9 System Benefit Charges. Column 6 is the Gas Cost
10 revenues. Column 7 is the revenue taxes associated with
11 columns 2 through 6, and column 8 shows the total
12 revenues of column 2 through column 7.

13 Q. Please explain what page 2 of Exhibit ___ (GFP-2) shows?

14 A. Page 2 in the same format shows forecasted volumes and
15 revenues for the 12 months that lead up to the Rate Year,
16 12 months ending December 31, 2022 at January 1, 2022
17 rates.

18 Q. Please explain Exhibit ___ (GFP-3)?

19 A. GFP-3 is similar to Exhibit ___ GFP-2 as it shows the Gas
20 Delivery Volume and Revenues for the Rate Year, RY2, and
21 RY3 at current rates. The Rate Year shown on page 1 of
22 Exhibit GFP-3 has three additional columns, columns 9,
23 10, and 11, to include the Proposed Rate Increase and
24 additional Revenue tax. Column 9 is the proposed change

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

GAS FORECASTING PANEL

1 in non-competitive revenues. Column 10 is the proposed
2 change in competitive revenues. Column 11 additional
3 taxes and column 12 is the grand total of the proposed
4 rate increase and associated taxes added to the Total
5 Revenues at current rates shown in column 8.

6 Q. What is the firm rate increase proposed in the Company's
7 rate filing?

8 A. The total proposed firm rate increase inclusive of
9 revenue tax and low income discount is \$502.6 million.

10 Q. You stated above that you developed the Rate Year base
11 revenue forecast by using billing determinants. Did you
12 develop exhibits summarizing the details of the billing
13 determinant forecast?

14 A. Yes. This data is shown for the three rate years on a
15 three-page exhibit, the first page of which is entitled
16 "CONSOLIDATED EDISON COMPANY OF NEW YORK, INC. -
17 FORECASTED GAS VOLUMES AND BASE REVENUES - 12 MONTHS
18 ENDING DECEMBER 31, 2023 AT CURRENT RATES BY BILLING
19 DETERMINANTS."

20 MARK FOR IDENTIFICATION AS EXHIBIT ____ (GFP-4)

21 Q. Please describe what this exhibit shows.

22 A. This exhibit shows, where applicable, the firm volumes by
23 billing determinant. The volumes by billing determinant
24 were developed using actual billing determinant volumes

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

GAS FORECASTING PANEL

1 for the Historic Year, modified to reflect the impact of
2 the variables previously discussed. The allocation of
3 the impact of each of those variables on billing
4 determinant volumes was assessed on an individual basis.
5 For example, the impact of adjustments related to weather
6 has a relatively greater impact on penultimate and
7 terminal billing determinant usage than that of smaller
8 size new business customers.

9 We based the forecast of firm delivery revenues from
10 tariff customers (other than special contract customers
11 and SC-14) based on billing determinants. Firm delivery
12 revenues from special contract customers were based on
13 their current contract terms. We developed the firm
14 delivery revenues SC-14 revenues by using prices in
15 effect during the Historic Year.

16 Q. Does this conclude the Gas Forecasting Panel's testimony?

17 A. Yes. It does.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC
GAS INFRASTRUCTURE, OPERATIONS AND SUPPLY PANEL - GAS

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I. INTRODUCTION

A. Introduction and Qualifications of Panel Members

Q. Would the members of the Gas Infrastructure, Operations and Supply Panel ("GIOSP" or "Panel") please state your names and business addresses?

A. Our names are Katherine Boden, Nicholas Inga, Amr Hassan, Robert Massoni, Christine Cummings, Ivan Kimball and Kathleen Trischitta.

Our business address is 4 Irving Place, New York, New York 10003.

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

A. We are all employed by Consolidated Edison Company of New York, Inc. ("Con Edison" or the "Company").

(Boden) I am the Senior Vice President of Gas Operations.

(Hassan) I am the Vice President of Gas Engineering.

(Inga) I am the Vice President of Gas Operations.

(Cummings) I am the General Manager of Project Management and Customer Programs.

(Massoni) I am the General Manager of Manhattan Gas Operations.

(Kimball) I am the Vice President of Energy Management.

(Trischitta) I am the Director of Commodity Operations.

Q. Please state your educational background.

A. **(Boden)** I hold a bachelor's degree in Electrical Engineering

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1 from Polytechnic University, and a Master of Business
2 Administration in Management from Hofstra University. I
3 have also completed PTI's Power Technology Course, PTI's
4 Electric Distribution System Engineering Course, and Gas
5 Technology Institute's ("GTI") Registered Gas Distribution
6 Professional Course.

7 **(Hassan)** I hold a bachelor's degree in Mechanical
8 Engineering from the Cooper Union, and a Master of Business
9 Administration in Finance from NYU Stern. I have also
10 completed GTI's Registered Gas Distribution Professional
11 Course.

12 **(Inga)** I hold a Bachelor of Science Degree in Mechanical
13 Engineering from Polytechnic University, and a Master of
14 Business Administration Degree in Corporate Finance from
15 Fordham University. I have also completed PTI's Power
16 Technology Transmission and Distribution Systems programs,
17 and a Project Management certificate course through the
18 Company's program with Stony Brook University.

19 **(Cummings)** I hold a Bachelor of Science degree in Economics
20 from Queens College. I have also completed GTI's Registered
21 Gas Distribution Professional Course.

22 **(Massoni)** I hold a bachelor's degree in Business Management
23 from the University of Phoenix.

24 **(Kimball)** I hold a Bachelor of Science degree and a Master

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1 of Science degree in Nuclear Engineering from Rensselaer
2 Polytechnic Institute.

3 (**Trischitta**) I hold a bachelor's degree in Electrical
4 Engineering from the State University of New York at Stony
5 Brook.

6 Q. Please describe your work experience.

7 A. (**Boden**) I joined Consolidated Edison in 1990 as a Management
8 Intern. I have held various positions of increasing
9 responsibility in Construction, Operations, and Engineering
10 in Electric Operations. In 2005, I was promoted to Vice
11 President Manhattan Electric Operations a position that I
12 held through 2010. In 2010 I was assigned to Gas Operations
13 as Vice President. In 2017, I was assigned to Gas
14 Engineering as Vice President. In 2021, I was promoted to
15 my current position as Senior Vice Present Gas Operations.

16 (**Hassan**) In 1993, I joined the Company's Corporate Intern
17 Program and have since held various positions of increasing
18 responsibility mainly in Gas Operations, with some
19 assignments in Energy Management and Corporate Planning.

20 In January 2013, I was promoted to General Manager Gas
21 Operations, where I was responsible for the Construction and
22 Distribution Services groups in regions of our service territory.

23 In November 2019, I became the Chief Distribution Engineer,
24 and in September 2021, I assumed my current position as Vice

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1 President of Gas Engineering.

2 **(Inga)** In 1992, I joined the Company's Corporate Intern
3 Program and have since held various positions of increasing
4 responsibility in Gas Operations, Treasury, and Shared
5 Services. In April 2008, I was promoted to General Manager
6 of Stores Operations, where I was responsible for the
7 Company's supply inventory and order fulfillment processes.
8 In June 2011, I was appointed to the position of Director
9 of the Gas Conversion Group. In January 2015, I was
10 assigned to Manhattan Gas Operations as General Manager. In
11 2017, I assumed my current position as Vice President of Gas
12 Operations.

13 **(Cummings)** In 2001, I joined the Company as a Management
14 Associate following a previous career in global
15 transportation, including roles in auditing and compliance,
16 customer service, and corporate training. Since joining the
17 Company, I have held various positions of increasing
18 responsibility in Government Relations (Corporate Affairs)
19 and the Gas Conversion Group. In January 2015, I was
20 promoted to Director of the Gas Conversions Group. In 2018,
21 I assumed my current position of General Manager of the
22 Project Management and Customer Programs group.

23 **(Massoni)** In 1981, I joined the Company as a member of the
24 union and have since held various positions of increasing

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1 responsibility in Central Operations, Shared Services and
2 Gas Operations. In March 2011, I was promoted to General
3 Manager of Astoria Operations, where I was responsible for
4 several groups including the Logistics Operations Control
5 Center responsible for supporting the Company operating
6 groups during storm response and recovery. In January
7 2016, I was assigned to Bronx Gas Operations as the General
8 Manger, and then in December 2017, moved to Manhattan as
9 the General Manager of Gas Operations.

10 **(Kimball)** I joined Con Edison in 1987 as a Management Intern
11 and held various positions of increasing responsibility
12 until December 1998 when I was transferred to Consolidated
13 Edison Energy, Inc. ("Con Edison Energy"). My
14 responsibilities as Director of Asset Management included
15 day-to-day scheduling, fuel procurement, electricity market
16 sales and planning, and associated regulatory and accounting
17 matters of generating facilities owned by Consolidated
18 Edison Development, Inc. ("Con Edison Development") and
19 other contracted generating facilities. In August 2008, I
20 returned to Con Edison as Director of Electricity Supply.
21 In that position I was responsible for day-to-day
22 electricity supply operations, including the scheduling of
23 generation and load bids with the New York Independent
24 System Operator ("NYISO") and neighboring control areas;

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1 developing the overall electric power procurement plans for
2 full service customers; developing and implementing Con
3 Edison's electric hedging program; strategically evaluating
4 and participating in capacity and transmission congestion
5 contract ("TCC") auctions; managing contractual rights with
6 various non-utility generators; and processing monthly
7 invoices for wholesale purchases and sales of capacity,
8 energy, and TCCs for Con Edison and its affiliates, Orange
9 and Rockland Utilities, Inc. ("ORU") and Rockland Electric
10 Company ("RECO"). In July of 2012, I was promoted to my
11 present position of Vice President of Energy Management.
12 **(Trischitta)** I joined Con Edison in 1993 as a Management
13 Intern in Gas Operations and have held various positions of
14 increasing responsibility in Con Edison's Gas Operations,
15 Fuel Supply, Unregulated Retail Operations and Energy
16 Trading and Energy Management organizations. In 1995, I
17 joined Fuel Supply's newly formed off-system sales
18 organization with responsibility for developing and
19 implementing some of the Company's first strategies for gas
20 asset optimization. In 1997, I transferred to the newly
21 formed unregulated subsidiary Con Edison Solutions and was
22 responsible for the implementation of the retail gas
23 business. Immediately prior to assuming my current position
24 in January 2016, I was Managing Director of the Energy

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1 Trading organization within Con Edison Energy, another
2 unregulated subsidiary of Con Edison, responsible for the
3 oversight of electricity, gas, oil, and renewable energy
4 credit trading.

5 Q. Please describe your current responsibilities.

6 A. **(Boden)** In my current position as Senior Vice President for
7 Gas Operations, I am responsible for the overall Con Edison
8 Gas Operations, Engineering, and Compliance and Quality
9 Assessment groups.

10 **(Hassan)** In my current position as Vice President of Gas
11 Engineering, I am responsible for the Technical Operations,
12 Project Management & Customer Programs, Gas Distribution
13 Engineering and Gas Transmission Engineering groups.

14 **(Inga)** In my current position as Vice President of Gas
15 Operations I am responsible for leading and managing both
16 Company employees and contractor personnel in the safe and
17 effective execution of, primarily, the following work: leak
18 response, leak repair, compliance inspections, main
19 replacement, and service installations.

20 **(Cummings)** In my current position as General Manager of
21 Project Management and Customer Programs Group, I am
22 responsible for the overall management of the capital
23 projects and programs and for leading and managing the

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1 Company's program to connect customers. As such, I am
2 responsible for the engineering, operations planning, and
3 customer liaison activities related to customer connections
4 and safety-related inspection programs in customers'
5 premises.

6 (**Massoni**) In my current position as General Manager of
7 Manhattan Gas Operations I am responsible for leading and
8 managing both Company employees and contractor personnel in
9 the safe and effective execution of leak response, leak
10 repair, compliance inspections, main replacement, and
11 service installations, in Manhattan.

12 (**Kimball**) I am responsible for providing the overall
13 strategic planning and direction for forecasting service
14 area demand, evaluating electric, natural gas, and steam
15 resource options, and procuring electricity, natural gas,
16 oil and renewable attributes. I perform these functions
17 for the customers of Con Edison, ORU, and RECO.

18 (**Trischitta**) In my current position as Director of Commodity
19 Operations, I lead three sections comprised of (i) commodity
20 purchasing and scheduling; (ii) gas planning and
21 transportation services; (iii) commodity hedging. I am
22 responsible for the functions of gas transportation
23 services, gas transportation planning financial hedging,

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1 physical procurement and associated scheduling of gas, fuel
2 oil and renewable attributes. I oversee these areas for Con
3 Edison and its corporate affiliate, ORU. I also oversee the
4 procurement of gas and fuel oil for Con Edison-owned
5 generation. Annual natural gas expenditures overseen by my
6 areas are over \$700 million dollars per year.

7 Q. Do you belong to any professional organizations?

8 A. **(Boden)** Yes, I am a member of the Board of Solar One, the
9 Board of a start-up called I-GIT (Institute of Gas
10 Innovation and Technology) with Stony Brook University, the
11 Board of the Northeast Gas Association ("NGA") and the
12 American Gas Association ("AGA") Leadership Council. I am
13 engaged in a number of research and development ("R&D")
14 initiatives, most notably the Electric Power Research
15 Institute ("EPRI")-GTI Low Carbon Resources Initiative. I
16 am the outgoing president and member of the Executive
17 Committee of the Society of Gas Lighting.

18 **(Hassan)** Yes, I am a member of the Operations Management
19 Committee ("OMC") of the NGA, AGA Executive Pipeline Safety
20 Management System ("PSMS") Committee and the GTI Operations
21 Technology Development ("OTD") Board.

22 **(Inga)** Yes, I am currently a member of the AGA Operations
23 Managing Committee and former Chair of the AGA Field

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1 Operations Committee. I am also a member of the Society of
2 Gas Lighting, and a former member of various NGA technical
3 committees, as well as the Gas Utilization Advisory Group.

4 **(Cummings)** Yes, I am currently a member of Women in
5 Communications and Energy and a committee member of the AGA.

6 **(Massoni)** I am a member of the AGA Field Operations
7 Committee and the Society of Gas Operators.

8 **(Kimball)** No.

9 **(Trischitta)** I am a member of Women in Communications and
10 Energy and the Society of Gas Operators.

11 Q. Have any members of the Panel previously testified before
12 the New York State Public Service Commission ("PSC" or
13 "Commission")?

14 A. **(Boden)** Yes, I testified before the Commission in the 2004
15 Electric Rate Case on the Infrastructure Investment Panel
16 when I was the Chief Electric Distribution Engineer (Case
17 04-E-0572) and in the previous gas rate case proceedings as
18 part of the Gas Infrastructure and Operations Panel (Case
19 16-G-0061 and Case 19-G-0066).

20 **(Hassan)** No, I have not testified previously before the
21 Commission.

22 **(Inga)** Yes, I testified before the Commission in previous
23 gas rate case proceedings as part of the Gas Infrastructure
24 and Operations Panel (Case 13-G-0031, Case 16-G-0061 and

1 Case 19-G-0066).

2 **(Massoni)** No, I have not testified previously before the
3 Commission.

4 **(Cummings)** Yes, I testified before the Commission in
5 previous gas rate case proceedings as part of the Gas
6 Infrastructure and Operations Panel (Case 13-G-0031, Case
7 16-G-0061 and Case 19-G-0066).

8 **(Kimball)** Yes, I have testified before the Commission as the
9 witness in previous electric and gas rate case proceedings
10 (Cases 09-E-0428, 13-E-0030, 16-E-0060, 16-G-0061, 19-E-0065
11 and 19-G-0066).

12 **(Trischitta)** Yes, I have testified before the Commission as
13 the Gas Supply witness in cases 18-G-0068, 19-G-0066 and
14 21-G-0073.

15 **B. Purpose of Filing**

16 Q. Please summarize and briefly explain the purpose of the
17 Panel's testimony.

18 A. This is not a "business-as-usual" gas filing. Con Edison
19 recognizes that use of its gas system must change over time
20 in response to the State's policy to reduce greenhouse gas
21 emissions and is moving in that direction. Our testimony
22 describes our programs to reduce greenhouse gas emissions
23 and to take steps to decarbonize the gas system by 2050.
24 We will manage this transition and continue to provide

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1 safe, reliable and resilient service to our 1.1 million
2 existing customers. We will explain how our main
3 replacement program not only provides important safety
4 benefits, but also is an important contributor to reducing
5 methane emissions. We will also explain what we are doing
6 to enhance the program to provide even more methane
7 emission reductions without sacrificing safety.

8 Additionally, to support electrification, we are the first
9 utility in the State to propose removing many financial
10 incentives for new gas customer connections. We are also
11 recommending other changes to the gas tariff to align with
12 the New York State Climate Leadership and Community
13 Protection Act ("CLCPA") goals.

14 While we expect use of our gas system to decrease, we must
15 make the investments necessary to continue to operate a
16 safe gas system. Accordingly, this Panel will discuss the
17 importance of, and overall need for, infrastructure,
18 operations, and technology investments to enhance safety.

19 We emphasize here that the overwhelming majority of our gas
20 capital investments are devoted to making our gas system
21 safer, and we understand this is our core responsibility.
22 As identified in Exhibit ___ (GIOSP-1), programs focusing
23 on safety make up approximately 85% of the overall capital
24 investment request (excluding Municipal Infrastructure).

1 We will also continue to serve our customers reliably,
2 including any new customers who choose gas notwithstanding
3 our electrification education and incentive programs.
4 Finally, the Panel recommends the continuation of most of
5 our current performance measures, with some modifications to
6 better align the performance measures with the work the
7 Company plans to undertake.

8 Q. What period does this testimony cover?

9 A. The Panel will present the projects and programs planned for
10 the 12-month period ending December 31, 2023 ("Rate Year" or
11 "RY1"); the following 12-month period ending December 31,
12 2024 ("RY2"); and the following 12-month period ending
13 December 31, 2025 ("RY3").

14 **C. Key Themes**

15 **1. Core**

16 Q. How does the Company plan to make investments that maintain
17 a safe and reliable system?

18 A. We first want to emphasize that the overwhelming majority
19 of our capital investments, and our increased operation and
20 maintenance ("O&M") expense, are devoted to making our gas
21 system safer. Our efforts to maintain a safe system are
22 core to Gas Operations. Throughout the Company's Gas
23 Operations projects, programs, and daily activities we
24 strive to achieve high standards for planning, engineering,

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1 execution, and response which support effective Company
2 operations. This focus on core service enables the Company
3 to accomplish our most important goal, making the gas
4 system safe for our customers, employees, and the public.
5 Core also includes our programs for maintaining reliability
6 for our existing customers and any new customers who choose
7 gas notwithstanding our electrification education and
8 incentive programs.

9 Q. What are some examples of the types of capital programs the
10 Company plans to undertake to maintain a safe system?

11 A. The Company's main replacement program, federally-mandated
12 transmission projects, natural gas detector program, and
13 regulator station improvement projects, are the initiatives
14 that will serve to reduce system risk and improve customer
15 and system safety. On a smaller scale, our reliability
16 upgrade and winter load relief projects will also maintain
17 reliability. We will discuss these later in this
18 testimony.

19 Q. Please describe the core strategies the Company uses to
20 continuously enhance safety, reduce risk and improve
21 operational performance.

22 A. The Company's gas safety and risk reduction efforts span a
23 wide array of programs and processes. Our risk reduction
24 strategy focuses on programs that enhance prevention,

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1 detection, and response to gas leaks. The American
2 Petroleum Institute's Recommended Practice (API RP 1173)
3 lays out the elements of an effective and holistic gas
4 Pipeline Safety Management System ("PSMS") for pipeline
5 operators. Through our PSMS, we follow a Plan-Do-Check-Act
6 cycle for our daily activities, which promotes continuous
7 improvement and feedback loops to our existing practices,
8 procedures, and management systems. The application of
9 this standard can be seen throughout our Distribution
10 Integrity Management Program ("DIMP") and Transmission
11 Integrity Management Program ("TIMP"). Our Integrity
12 Management Programs support efforts to identify emerging
13 areas of risk and allow the Company to take proactive steps
14 to address them.

15 Q. How does the Company's Integrity Management Program reduce
16 risk and enhance safety?

17 A. Both DIMP and TIMP use data analytics, root cause analysis,
18 open communication, and standardization to examine risk and
19 improve existing programs or create new ones.

20 Additionally, the Company incorporates lessons learned from
21 industry events and compliance directives to further
22 advance our processes and business practices.

23 DIMP analyzes the distribution system to target
24 distribution mains and services for replacement,

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1 refurbishment, or abandonment. TIMP focuses on
2 transmission risk reduction and compliance programs,
3 including identifying specific transmission mains for
4 replacement. We discuss these and associated integrity
5 management programs and projects in more detail below.

6 Q. In addition to the Company's traditional leak
7 response/repair programs and efforts to identify and
8 prioritize leaks emitting the most gas, what advanced leak
9 detection technology is the Company investing in?

10 A. The Company began installing remote Natural Gas Detectors
11 ("NGDs") inside customers' homes or buildings near where
12 the gas pipe enters the building in 2018. The Company is
13 proposing to continue this program, with the installation
14 of additional Advanced Metering Infrastructure ("AMI")
15 enabled NGDs. This will allow for the Company to complete
16 initial deployment of all NGDs to all buildings that opt-in
17 by the end of a three-year rate plan, if adopted. The
18 Company will install these detectors indoors. They are
19 designed to detect natural gas and send an alarm to our Gas
20 Emergency Response Center ("GERC"). The GERC then contacts
21 the fire department and dispatches a Company emergency
22 response crew. The use of these detectors will be for both
23 indoor and outdoor meter configurations. Detection of gas
24 leaks through state-of-the-art technology and public

1 awareness is critical to our comprehensive approach to risk
2 management and commitment to public safety. Through
3 early/enhanced leak detection, we can respond and remediate
4 quickly, thereby reducing risk, keeping the public safe,
5 and protecting the environment by reducing methane
6 emissions.

7 Another example of the Company's investment in advanced
8 leak detection technology is the Piccaro Surveyor, which
9 the Company currently proposes to use for a new high
10 emissions leakage survey and will be discussed in more
11 detail below.

12 Q. Have other safety regulators acknowledged the benefits of
13 NGDs?

14 A. The installation of NGDs is considered a program with very
15 high safety benefits. The National Transportation Safety
16 Board ("NTSB") has listed the installation of methane-
17 detection systems in residential occupancies as an item on
18 their "Most Wanted List of Transportation Safety
19 Improvements."¹

20 **2. Clean and Resilient**

21 Q. Why is the Company focusing on reducing methane emissions?

22 A. Natural gas contains methane, a greenhouse gas that once

¹ See <https://www.nts.gov/Advocacy/mwl/Pages/mwl-21-22/mwl-rph-01.aspx>

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1 emitted into the air is 86 times more potent than carbon
2 dioxide, if modeled on a 20-year time frame used in the
3 CLCPA. Methane is the largest component of natural gas,
4 and it can be emitted during normal operating activities
5 during transportation, or prior to combustion. Known as
6 fugitive emissions, the Company is committed to reducing
7 these emissions whenever possible.

8 Q. How do the Company's investments advance its clean and
9 resilience goals?

10 A. To achieve the Company's Clean Energy Commitment as well as
11 help the State comply with CLCPA requirements, we are
12 implementing or proposing to implement a number of
13 greenhouse gas emission reduction initiatives. The
14 following clean investments are significant in limiting the
15 amount of natural gas emissions into the environment:

16 - Main Replacement Program & Service Replacement

- 17 o Abandons or replaces the most leak prone assets on the
18 gas system, which reduces fugitive emissions; this
19 program is responsible for reducing our emissions by
20 53% from 1990 to 2020 based on the methodology
21 required by the EPA for companies to use to calculate
22 their emissions. Given that the goal of the CLCPA is
23 to reduce overall GHG emissions by 40% by 2030, we can

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1 say that the contribution to that goal from our main
2 replacement program is far outpacing the CLCPA goal.
3 Additionally, the newly constructed replacement pipes
4 will provide reliability for our existing customers
5 and can accommodate blended or completely low-carbon
6 fuels in the future.

- 7 o Use of non-pipeline alternatives instead of main
8 replacement when possible removes potential future
9 emissions by downsizing the system;

10 - Vacuum Purging Technology

- 11 o Captures gas typically lost to the atmosphere during
12 purging of gas lines and reintroduces it back into the
13 gas system;

14 - Natural Gas Detectors and Leak Alarms

- 15 o Installation of NGDs near where the gas pipe enters
16 the building is another resource to allow us to find
17 gas leaks more quickly, thereby reducing emissions and
18 keeping customers safe;

19 - Local Renewable Natural Gas ("RNG")

- 20 o Natural gas supply from non-fossil sources (e.g., food
21 waste) that reduces the greenhouse gas impact; and

22 - Certified Natural Gas

- 23 o Pilot the procurement of natural gas that is certified
24 to have followed the best environmental practices,

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1 including lower emissions, in production.

2 Q. In what other ways is the Company furthering its Clean
3 Energy Commitment through its gas operations?

4 A. Besides the Company's capital projects, there are also
5 tools, processes, and programs in place to help make our
6 system safer that also support the reduction of natural gas
7 emissions:

8 - Leak Detection

9 o Monthly leakage surveys of our gas mains help find and
10 address leaks in a rapid manner. The Company's
11 program provides 11 more leak surveys per year than
12 required under Commission regulations;

13 - Leak Response and Repair

14 o Goals to repair 85% of leaks within 60 days, which
15 includes leaks the Company is not obligated to repair
16 under Commission regulations.

17 - High Emitter Survey

18 o Development of a new high emitter surveillance program
19 to find leaks, using advanced leak detection tools
20 with the highest calculated standard cubic feet per
21 hour ("SCFH"), and prioritize them for repair.

22 Currently, the Picarro Surveyor technology is being
23 utilized for this work;

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1 - Internally coated pipe
2 o Prevents the loss of odor to newly installed steel
3 mains. This significantly reduces the pickling
4 process which would purge gas to the atmosphere, in
5 order to odorize the main;

6 - Purge Burners
7 o Burn off planned natural gas releases (combusting
8 natural gas that would have been released to the
9 atmosphere reduces the greenhouse gases associated
10 with these releases due to the higher global warming
11 potential of methane); and

12 - Damage Prevention Plan
13 o Plan to reduce the number of damages, which in turn
14 would reduce the number of unplanned natural gas
15 releases.

16 Q. Is the Company also making investments to improve its
17 resiliency to extreme weather events?

18 A. In addition to the greenhouse gas reductions, the Company
19 recognizes that systems built today need to be resilient in
20 the face of more frequent and severe weather than our
21 service territory has experienced in the past. To account
22 for these risks, the Company has expanded its flood zone
23 criteria to identify and target additional gas assets with

1 the greatest risk of flooding and water infiltration.
2 These assets will be replaced as part of our main
3 replacement program. Additionally, the Company's Climate
4 Change Planning and Design Guideline is being used in
5 conjunction with our specifications to design and plan
6 projects to the projected future changes in climate. The
7 Company is continually reviewing new data and information
8 to determine if additional resiliency investments may be
9 required.

10 The Company is also addressing environmental change and
11 resiliency by incorporating higher flood elevation
12 considerations into our design criteria, with the Company's
13 Climate Change Planning and Design Guideline.

14 Additionally, the Main Replacement Program will support
15 climate resilience activities by replacing low pressure gas
16 mains in flood-prone areas, using a FEMA+3 feet area. The
17 Company will increase our targeted mileage of flood-prone
18 gas main replacement per year.

19 **3. Enhancing the Customer Experience**

20 Q. How will the Company's planned investments enhance the
21 customer experience?

22 A. The customer experience will be enhanced through new
23 technology and tools designed to provide customers with the

1 information they need to make effective decisions about
2 their energy services. In order to align with the
3 corporate, city and state's clean energy initiatives, all
4 potential new gas customers will be offered information
5 about clean alternatives to natural gas.

6 The Company is also proposing an investment in a new Gas
7 Outage Management System. When implemented, this new
8 system is expected to help identify outages quicker, track
9 outages with advanced technology, improve efficiency in the
10 restoration process, and provide timely and accurate
11 information to customers when they need it most.

12 **D. Gas System Description**

13 Q. Please provide a high-level overview of the Company's
14 natural gas transmission and distribution system.

15 A. A gas distributor since 1823, Con Edison currently provides
16 natural gas service to more than 1.1 million customers in
17 Manhattan, the Bronx, parts of Queens, and Westchester
18 County. Con Edison manages a large, complex underground
19 natural gas transmission and distribution system. This
20 system contains approximately 4,400 total miles of gas main
21 with approximately 375,000 service pipes that transport more
22 than 330 million dekatherms of natural gas each year. The
23 approximately 4,400 miles of gas mains consist of 97 miles

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1 of mains operating at pressures greater than 125 psig and
2 4,300 miles of distribution mains operating at pressures
3 less than 100 psig. Approximately 300 miles are large-
4 diameter distribution mains, greater than or equal to 16
5 inches that mostly connect the transmission mains to
6 approximately 4,000 miles of smaller-diameter distribution
7 mains.

8 Q. Please provide a general description of the parameters
9 within which the Company designs its gas system.

10 A. We design our gas transmission and distribution system to
11 meet state and federal gas safety requirements and the load
12 requirements of all firm customers 365 days per year, 24
13 hours per day, based on the forecasted peak hourly load.

14 Q. What are the Company's gas infrastructure replacement
15 objectives.

16 A. The Company's primary replacement objectives are to reduce
17 risk, maintain safety, enhance reliability and resilience,
18 and reduce fugitive methane emissions from the distribution
19 system. By replacing leak prone pipe, we reduce the number
20 of cracks and corrosion that could cause methane leaks.
21 This provides an obvious safety advantage, reduces outages
22 caused by flooding and, as discussed earlier, reduces
23 emissions.

24 Additionally, certain projects, such as the Transmission

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1 replacement items, are required for regulatory compliance,
2 in addition to risk mitigation.

3 Q. How does the Company implement these objectives?

4 A. One method of reducing risk is our distribution main
5 replacement program ("MRP"), which proactively replaces 12-
6 inch and smaller cast iron, wrought iron, and unprotected
7 steel mains.

8 In addition to replacing the leak prone pipe, we have an
9 aggressive leak management program whereby we routinely
10 seek, find and fix leaks in a timely fashion, rather than
11 waiting to prioritize lesser hazardous leaks (*i.e.*, Type
12 3's) with future main replacement plans.

13 The Company seeks to combine as much of this work together
14 with infrastructure replacement, in order to minimize costs
15 to our ratepayers; however, with a multi-year MRP ending by
16 2040, and a need to safeguard our environment now, we
17 cannot allow less hazardous leaks to go unchecked and
18 unrepaired. There will be more discussion of our safety
19 and environmental risk reduction efforts through
20 inspections and leak management programs in subsequent
21 sections of this testimony.

22 **II. CAPITAL AND O&M SUMMARY INFORMATION**

23 Q. What is the Company's projected capital investment for the
24 three rate years?

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1 A. We are planning to invest \$905.1 million in RY1, \$924.2
2 million in RY2, and \$890.2 million in RY3, excluding
3 Municipal Infrastructure expenditures.

4 Q. What are the Company's projected O&M expenditures for the
5 three rate years?

6 A. We are planning to spend \$179.34 million in RY1, \$182.12
7 million in RY2 and \$184.65 million in RY3. Of these
8 amounts, O&M program changes account for a \$40.1 million
9 increase in RY1, with decreases of \$811,000 in RY2 and \$1.1
10 million in RY3.

11 Q. Was the document entitled "CONSOLIDATED EDISON COMPANY OF
12 NEW YORK, INC. 2023-2025 GAS CAPITAL PROGRAMS" prepared
13 under the Panel's direction and supervision?

14 A. Yes, it was. This is the document which has been
15 identified as Exhibit ____ (GIOSP-1).

16 Q. Please describe this exhibit.

17 A. This exhibit summarizes Gas Operations' three-year capital
18 expenditures for RY1, RY2, and RY3. These capital
19 expenditures are organized into the functional areas shown
20 on the exhibit. This exhibit also includes the "White
21 Papers" associated with the three-year capital
22 expenditures. The white papers provide the description of
23 work, justification, alternatives, milestones, benefits and

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1 funding requirements for each capital program and project.

2 Q. How did you organize your testimony to address the programs
3 and projects in Exhibits ____ (GIOSP-1)?

4 A. The testimony is broken down into the main areas set forth
5 below:

6 • Distribution System Improvement Programs;

7 • Transmission Programs and Projects;

8 • Customer Connections;

9 • Technical Operations; and

10 • Gas Information Technology.

11 Q. Have you prepared an exhibit entitled "GAS OPERATIONS - O&M
12 CHANGES BY CATEGORY"?

13 A. Yes, we have.

14 Q. Was this exhibit prepared under your supervision and
15 direction?

16 A. Yes, it was. This is the document which has been
17 identified as Exhibit ____ (GIOSP-2).

18 Q. Please explain what is reflected in Exhibit ____ (GIOSP-2).

19 A. This exhibit shows the Company's incremental O&M
20 expenditures, compared to the 12-month period ended
21 September 30, 2021 ("Historic Year"), for RY1, RY2 and RY3.

22 Q. Do the Company's capital and O&M funding projections
23 include funding for municipal infrastructure projects?

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1 A. Yes, they do. However, these Public
2 Improvement/Interference expenditures are not addressed in
3 this testimony. These expenditures instead are addressed
4 in separate testimony provided by the Company's Municipal
5 Infrastructure Support Panel.

6 **III. ANNUAL CAPITAL PROGRAMS**

7 Q. Please summarize the gas capital request.

8 A. The Panel will identify major capital programs and projects
9 to be conducted during the rate years. Each program and
10 project is aligned with an exhibit or associated "white
11 paper" that describes the scope of work, cost, schedule,
12 and justification. As shown in Exhibit ___ (GIOSP-1), the
13 Company projects overall capital expenditures are: \$905.1
14 million in RY1, \$924.2 million in RY2, and \$890.2 million
15 in RY3, excluding Municipal Infrastructure expenditures.
16 This will provide for capital investments in:

- 17 • Programs/projects to reduce risk, enhance safety, and
18 reduce methane emissions including main replacement
19 efforts to eliminate 12-inch-and-under cast iron and
20 unprotected steel gas main over the next 20 years;
- 21 • Programs/projects to improve system reliability,
22 including Winter Load Relief and various system and
23 regulator station upgrades;

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- 1 • Transmission project and program investments to continue
2 pipeline integrity management and meet regulatory
3 requirements; and
- 4 • Information technology projects to reduce administrative
5 and operational risk and achieve improved efficiencies
6 and management of operations, programs and projects.

7 Q. Please describe the nature of the gas capital expenditures
8 the Company is planning, why the work is necessary, and the
9 major drivers of the projected increase in capital
10 expenditures.

11 A. The Company recognizes that use of its gas system must
12 change over time and describes herein the programs it is
13 implementing as a result. At the same time, Con Edison
14 must continue to keep its system safe. The overwhelming
15 majority of the Company's gas system investments are to
16 enhance the safety of its system. This entails programs to
17 replace and/or upgrade its piping, equipment, and
18 facilities. As shown in Exhibit ____ (GIOSP-1), the major
19 drivers for the increase in gas capital expenditures in RY1
20 include the Leak Prone Main and Service Replacement
21 Programs and Transmission Projects. These and other
22 projects and programs are described below within the five
23 program areas, *i.e.*, distribution, transmission, customer

1 connections, technical operations and information
2 technology.

3 **A. DISTRIBUTION SYSTEM IMPROVEMENT PROGRAMS**

4 **1. Distribution Integrity**

5 Q. Describe the Company's DIMP.

6 A. The purpose of DIMP is to enhance public and employee safety
7 by identifying gas distribution pipeline integrity risks and
8 implementing mitigating measures to address them. Some of
9 these risks include distribution system leaks, excavation
10 damages, and human error. The Company uses DIMP to enhance
11 safety and create capital programs to improve safety.

12 Q. How does DIMP assess risk?

13 A. DIMP enhances safety by identifying and reducing
14 distribution pipeline integrity risks through system
15 analysis and by monitoring potential threats identified by
16 internal subject matter experts ("SMEs"), regulators, gas
17 associations and peers. Risk analysis is an ongoing process
18 of understanding what factors affect the degree of risk
19 posed by threats. To further enhance this process, starting
20 in 2018, the Company moved from an evaluation process that
21 considered risks separately under DIMP and the MRP Model,
22 respectively, to a single consolidated risk model. The
23 Company reviews top gas safety projects for changes and

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1 considers further actions such as reprioritizing our
2 current replacement schedule and creating new programs for
3 mitigating or eliminating emergent risks.

4 Q. How does DIMP drive capital investments?

5 A. By properly collecting, documenting, and analyzing
6 information and data about our distribution system, DIMP
7 informs the Company's decisions on how to reduce risk
8 through capital investments. One example is DIMP has
9 identified leaks on small-diameter cast iron, wrought iron,
10 and steel mains to be a threat, which is addressed through
11 our Main Replacement Program, described further below.

12 Q. What is the Company's strategy for the Main Replacement
13 Program?

14 A. The Company uses a risk-based approach to prioritize
15 elimination of its inventory of 12-inch and smaller cast
16 iron, wrought iron, and unprotected steel mains. Work
17 falls into two categories: Planned and Emergent.

18 1. Planned - The Company uses the DIMP risk model to
19 assess risk and select main replacement projects. Planned
20 projects mainly consist of highly ranked segments and flood
21 prone pipe. The program will support decarbonization of
22 the gas system by targeting simplification opportunities
23 that will decrease the footprint of the distribution gas
24 system, as well as focusing on the abandonment of cast iron

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1 and wrought iron pipe.

2 2. Emergent - The Company identifies circumstances where
3 leak-prone main replacement is required for reasons other
4 than the risk model selection. These types of projects are
5 outside of the Planned work, as described above, but support
6 overall risk reduction efforts and can lead to cost savings.
7 For example, the Company looks to proactively replace all
8 12-inch and smaller cast iron, wrought iron, and unprotected
9 steel on a street prior to its scheduled paving date to
10 reduce cost and prevent the need to excavate a newly paved
11 street, should a leak occur. Some other examples of
12 emergent conditions are leaks that cannot be repaired, cast
13 iron encroachments, and public improvement projects.

14 Q. How does the Company try to achieve efficiencies in its
15 main replacement program?

16 A. The Company proactively seeks opportunities to improve the
17 reliability of our gas system and address other planned work
18 streams in conjunction with this program. Such work
19 includes winter load relief, customer connections, isolation
20 valve installation, regulator station installations, and
21 other pipework done in association with these projects.
22 This allows us to integrate schedules so that all work
23 streams can be efficiently planned and completed

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1 concurrently. This enhanced coordination reduces the
2 impact to customers of repeated excavations and gas work.

3 Q. What are the proposed goals for each Rate Year?

4 A. We propose to replace 85 miles of main in each of the three
5 rate years. For each rate year, we will replace 80 miles
6 of planned work and five miles of conjunctional work, such
7 as municipal infrastructure work that eliminates leak prone
8 pipe. These goals are in line with our 20-year replacement
9 strategy to be completed by 2040.

10 Q. Why has the Company reduced its annual main replacement
11 target from the 90-mile annual target in effect for the
12 last gas rate plan?

13 A. We believe this modest reduction improves safety while
14 accounting for expected decreases in system use as
15 electrification increases. We believe it is imperative to
16 continue to replace high-risk pipe at a rigorous pace. At
17 the same time, we recognize that we must prepare for
18 electrification and look for opportunities to reduce risk
19 by retiring rather than replacing pipe. Moreover, slightly
20 modifying our targets in this filing mitigates overall
21 customer costs without compromising our ability to complete
22 the MRP by 2040. Specifically, our proposal reduces the
23 requested gas revenue requirement by approximately \$23.2
24 million per rate year.

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1 Q. Is the Company adjusting its main replacement program
2 strategy to focus more on emissions reductions?

3 A. Yes. We are adjusting our strategy to maintain our focus
4 on safety while emphasizing reducing methane leaks. Going
5 forward, the Company will preferentially select cast
6 iron/wrought iron replacement, over bare steel, when risk
7 factors are equivalent. This shift could result in the
8 Company reducing more methane emissions because the
9 emissions factor for cast iron is greater than that of bare
10 steel.

11 Q. Is the Company taking other steps to reduce emissions
12 through its main replacement program?

13 A. Yes. We are increasing our efforts to simplify the gas
14 distribution system, which will serve to accelerate our
15 methane emissions reduction. Simplification projects allow
16 us to abandon leak-prone assets that will not be required
17 in the long-term, given our expectations of lower system
18 demand as a result of electrification to meet the State's
19 CLCPA requirements.

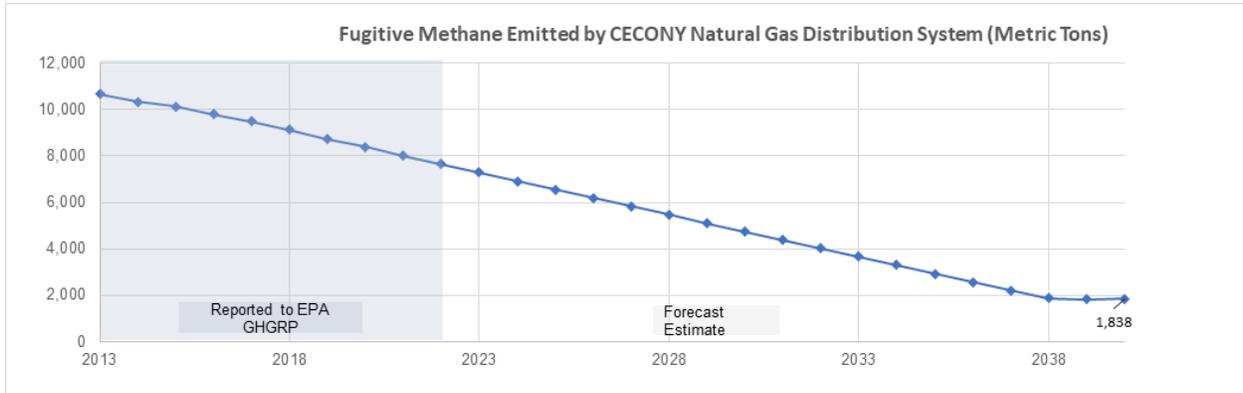
20 Q. Can you quantify the emissions reductions from the MRP?

21 A. Yes. The reduction in emissions associated with these
22 programs is quantifiable through the use of Title 40 - CFR
23 98. Subpart W. The projected annual reduction is shown in

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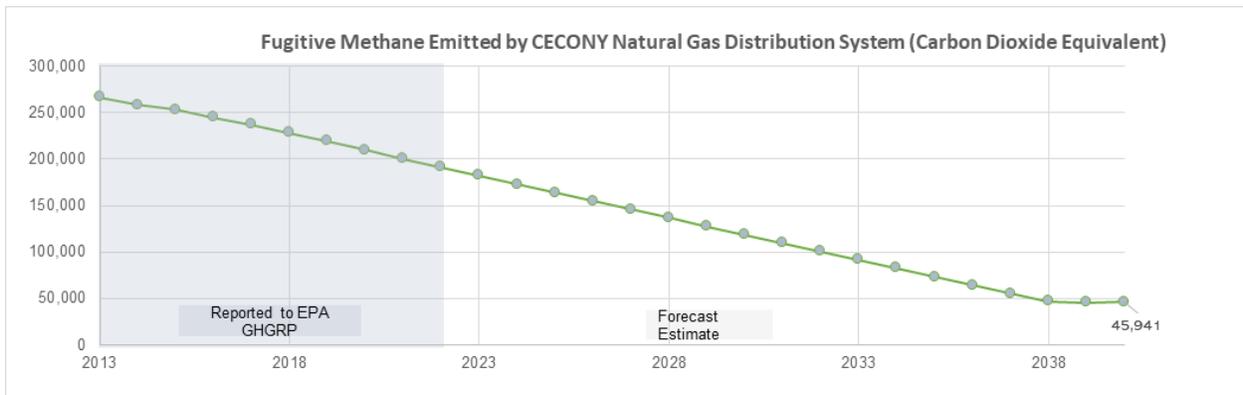
1 the charts below:

2 Table 1: Projected Fugitive Methane Emissions-CECONY



3

4



5

6 Q. What are the projected costs of the Main Replacement Program
 7 for each rate year?

8 A. The Company is projecting the following expenditures for
 9 this program: \$404.8 million in RY1, \$425.2 million in RY2,
 10 and \$442.2 million in RY3, as set forth in Exhibit (GIOSP-
 11 1), which accounts for 45% in RY1, 46% in RY2 and 50% in
 12 RY3 of the total gas capital investment, excluding
 13 Municipal Infrastructure projects.

14 Q. Does the Company have any other proposals related to its

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1 Main Replacement Program?

2 A. Yes, the Company proposes to capitalize all main
3 installations, regardless of length. Currently, segments
4 that are less than 25 feet are expensed as O&M.

5 Q. Has the Commission approved a similar proposal as part of
6 any other NYS gas utility rate plan?

7 A. Yes, the Commission recently approved a similar proposal in
8 National Grid's gas rate plan (Case 19-G-0309, et. al).

9 Q. Does the Company propose any additional investments that
10 will reduce methane emissions?

11 A. Yes. The Company is introducing a new Methane Capture
12 Technology program, which will procure and deploy Zero
13 Emissions Vacuum ("ZEVAC") units to construction crews.
14 Currently, certain construction activities release natural gas
15 to the atmosphere. The ZEVAC unit can be used to mitigate
16 methane emissions on larger volume pipe replacements for pipes
17 operating at greater than or equal to medium pressure (15 psig
18 MAOP). The ZEVAC units pump the gas out of the isolated pipe
19 segment being replaced and into the portion of pipe remaining
20 in service. The Company plans for full deployment by the end
21 of 2026. The Company is projecting the following expenditure
22 for this program: \$1 million in each of RY1, RY2 and RY3.

23 Q. Is the Company proposing to continue the Safety and
24 Reliability Surcharge Mechanism ("SRSM") to recover the

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1 carrying costs on incremental capital expenditures and O&M
2 expenses associated with the replacement of main above the
3 targets established for the Main Replacement Program?

4 A. Yes, the Company proposes to continue the SRSM for the Main
5 Replacement Program.

6 Q. Are there additional costs not accounted for in this
7 expenditure?

8 A. Yes. On January 12, 2022, the Company was informed that
9 Urbint, the company that provides our current MRP modeling
10 software, has made the strategic decision to no longer
11 provide maintenance and support services for their Optimain
12 products. Maintenance and support services will be
13 discontinued on March 31, 2023. As a result of this
14 announcement, the Company must seek an alternative software
15 application to fill our MRP risk modelling needs. The cost
16 of procuring an alternative software application is
17 currently unknown and not accounted for in the costs
18 presented for the Main Replacement Program. Therefore, the
19 Company plans to determine the costs associated with this
20 new project and present this information during the update
21 phase of the proceeding.

22 **2. System Reliability**

23 Q. Are you planning any other programs that will address risk

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1 on the distribution system?

2 A. Yes. We plan to continue our gas system reliability
3 improvement programs, which are described in the Company
4 submitted White Papers. Some key programs include the Gas
5 Reliability Improvement Program and Winter Load Relief.
6 Currently our design criteria for regulator stations
7 includes installation of components to prevent over
8 pressurization of our gas distribution system. We also
9 plan on initiating a program to install additional
10 equipment to provide redundancy to the existing over
11 pressure protection ("OPP") components, which is discussed
12 later in this testimony. The benefits of the Company's
13 proposed gas system reliability programs are described in
14 more detail below.

15 *Improve safety/reduce risk:* The Gas Distribution System
16 Over Pressure Protection improvement program will improve
17 public safety and continue to reduce the risk of an over
18 pressurization event by employing secondary OPP technology
19 on our gas distribution system. Where regulator stations
20 employ primary and monitor regulator design, this program
21 will seek to eliminate common mode of failure by providing
22 added protection, as outlined in the Protecting Our
23 Infrastructure of Pipelines and Enhancing Safety ("PIPES")

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1 Act, Section 206.² An over pressurization downstream of the
2 regulator stations may create leaks on the system or, in
3 the worst case, put life and property in imminent danger.
4 This program increases public safety, and at the same time
5 provides environmental benefits by minimizing methane
6 emissions.

7 *Operational excellence:* Supply mains facilitate the
8 delivery of natural gas to every customer on the Con Edison
9 gas system. Improvements to these facilities are needed to
10 enable the Company to continue to deliver reliable gas
11 service to all our customers on the coldest winter days.
12 This will be accomplished largely by planned capital
13 programs, including the Winter Load Relief and the Gas
14 Reliability Improvement Programs.

15 *Customer experience:* Programs such as Winter Load Relief
16 and the Regulator Station Revamp Programs are designed for
17 the natural gas system to be able to accommodate required
18 gas pressures for existing customers as well as provide
19 reliable service with minimal interruption, thus enhancing
20 the customer experience.

21 Q. Please describe the planned work for each of the above-
22 listed programs, the costs projected in RY1, RY2 and RY3,

² PIPES Act of 2020, S. 2299, 116th Cong. (2019)

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1 as well as additional details regarding the benefits of
2 this work.

3 A. 1. Winter Load Relief - To maintain system reliability,
4 Con Edison needs to reinforce our systems to achieve the
5 minimum pressures required to serve customers. We must
6 also reinforce our system to maintain minimum inlet
7 pressures to our low and medium-pressure regulator
8 stations. Using our annual network analysis model
9 validation process, we project anticipated system loads and
10 system performance for the following winter season. Where
11 marginal pressures are anticipated, areas are identified
12 for additional reinforcement and can be addressed through
13 specific recommended projects under the Winter Load Relief
14 program. These projects typically consist of installing
15 new mains to make ties or replacing smaller mains with
16 larger diameter mains to eliminate area constraints. The
17 Company is projecting the following expenditures for Winter
18 Load Relief related projects: \$13.4 million for RY1, \$14.0
19 million for RY2 and \$14.3 million for RY3, as set forth in
20 Exhibit ____ (GIOSP-1).

21 2. Gas Reliability Improvement Program - Our priority is
22 to avoid large-scale outages on our system during peak
23 demand periods. To address this potentially devastating
24 and costly risk, system reinforcements such as main ties,

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1 or regulator station upsizing are needed, specifically
2 targeting vulnerable segments, more described in the
3 whitepaper. The Company is projecting the following
4 expenditures for the Gas Reliability Improvement Program:
5 \$10.1 million for RY1, \$10.7 million for RY2 and \$10.7
6 million for RY3, as set forth in Exhibit ____ (GIOSP-1).

7 **B. TRANSMISSION PROGRAMS AND PROJECTS**

8 Q. Please describe Con Edison's gas facilities, which operate
9 above 125 psig.

10 A. Con Edison has 97 miles of 6-inch to 36-inch diameter mains
11 in Manhattan, Queens, the Bronx, and Westchester County,
12 that operate above 125 psig. For purposes of this
13 testimony, these pipelines will be referred to as
14 transmission. These mains, most of which were installed
15 between 1947 and 1973, have a maximum allowable operating
16 pressure of either 245 psig or 350 psig. The transmission
17 facilities are supplied by seven gate stations from four
18 pipeline companies. In addition, most of these facilities
19 are part of a larger regional network called the New York
20 Facilities ("NYF") System, which is jointly owned and used
21 by Con Edison and National Grid. Con Edison's system is
22 connected to National Grid's system at two bi-directional
23 metering stations, as well as five metered take-off
24 locations in Queens.

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1 Q. Please describe the capital investment that is planned for
2 the gas transmission facilities.

3 A. As presented in Exhibit ___(GIOSP-1), the following
4 expenditures are related to transmission programs and
5 projects: \$115.3 million in RY1, \$133.8 million in RY2 and
6 \$112.8 million in RY3. These investments are required to
7 comply with the new state and federal Transmission MAOP
8 Reconfirmation Rule (MAOP Rule, part 1).

9 **1. Transmission Risk Reduction and Reliability**

10 Q. Please describe each of the gas transmission capital
11 programs and projects that are planned for the 2023-2025
12 period and how they address safety and reliability.

13 A. The gas transmission capital programs are as follows:

14 1. Installation of Remotely Operating Valves ("ROVs") -

15 This program provides for rapid isolation of a compromised
16 section of the transmission facilities; rapid isolation of
17 transmission facilities at river and tunnel crossings and
18 at the outlet of gate stations; and rapid separation of
19 intersecting transmission mains at tee or branch locations.

20 The ROV program consists of converting existing
21 transmission valves or installing new ROVs to meet the
22 future ROV design criteria, specifically targeting those
23 transmission mains that are not slated for pipeline

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1 replacement. Once the program is complete, the closure of
2 any two consecutive ROVs will not negatively impact supply
3 mains or the distribution system on an average winter day.
4 Five total ROVs are required to meet System Design
5 Criteria, as part of this program. All will be installed
6 by the end of RY3. The Company projects the following
7 expenditures for this program: \$ 3.1 million in RY1; \$3.3
8 million in RY2; and \$3.3 million in RY3, as set forth in
9 Exhibit ____ (GIOSP-1).

10 2. The Newtown Creek Metering Station - This is a capital
11 project that addresses a facility constructed in 1951 that
12 contains older piping configurations and obsolete metering
13 equipment that is maintenance intensive. One of those
14 pieces of new equipment is the addition of a new control
15 valve that would allow Con Edison to control the flow rate
16 to National Grid. Our ability to control flow to National
17 Grid would allow us to regulate the Con Edison portion of
18 the gas transmission system and protect the Con Edison
19 portion of the gas transmission system from abnormal
20 operating conditions and maintain flow to the maximums
21 permitted under the New York Facilities agreement. The
22 Company forecasts the following expenditures for this
23 project: \$15.6 million in RY2; and \$14.5 million in RY3,
24 as set forth in Exhibit ____ (GIOSP-1).

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1 3. Transco Gate Station Over Pressure Protection - This
2 project addresses the installation of Con Edison owned OPP
3 at the following Transco facilities: Transco's Upper
4 Manhattan Gate Station located in Manhattan and Transco's
5 Central Manhattan gate station located in New Jersey. The
6 Con Edison OPP will provide for the safe operation of the
7 gas transmission system if Transco's OPP device at any of
8 the two gate stations fails and the pipeline's operating
9 pressure cannot be controlled. This project will also
10 include installing new piping from the Transco-Con Edison
11 demarcation point up to the outlet of the ROV with piping
12 for the same MAOP as the Transco station inlet piping. The
13 Company forecasts the following expenditures for these
14 projects: \$10 million in RY1; and \$10.0 million in RY2, as
15 set forth in Exhibit ____ (GIOSP-1).

16 4. Knollwood Overpressure Protection Project - This project
17 addresses the installation of Con Edison owned OPP at the
18 Tennessee Knollwood Gate Station. Upgrades at the
19 Knollwood station are to be completed in 2022, after which,
20 this OPP project can commence. The Con Edison OPP will
21 provide for the safe operation of the gas transmission
22 system in the event that the pipeline's OPP device fails
23 and the pipeline's operating pressure cannot be controlled.
24 This project will also include the installation of new

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1 piping from the Tennessee-Con Edison demarcation point up
2 to the outlet of the ROV, as set forth in Exhibit ____
3 (GIOSP-1).

4 5-9. MAOP Rule Replacement - The Company has five projects
5 required for compliance with federal and state law. These
6 projects will replace transmission infrastructure installed
7 using legacy construction practices, for which traceable,
8 verifiable and complete records related to the pipeline's
9 MAOP show that the pipeline was not pressure tested to the
10 new federal and state requirements.

11 Pursuant to federal and state regulations, "transmission
12 lines" are defined as pipelines that operate at a hoop
13 stress of 20 percent or more of Specified Minimum Yield
14 Strength ("SMYS") (see 49 CFR 192.3). The Company plans to
15 replace vintage federally defined transmission pipelines
16 with new facilities that will improve safety and
17 reliability by operating at less than 20 percent SMYS. Loss
18 of supply from these facilities would otherwise cause
19 widespread customer outages.

20 In addition to complying with federal and state law, these
21 projects will improve safety through the retirement of
22 certain high-risk assets, including: a compressor station,
23 certain regulators and a super monitor.

24 The Company forecasts \$99.8 million in RY1; \$108.4 million

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1 in RY2; and \$88.4 million in RY3 for these initiatives, as
2 set forth in Exhibit ____ (GIOSP-1).

3 **2. Gate Station Work**

4 Q. Please describe the two broad categories of gate station
5 work that the Company typically undertakes.

6 A. The first category is capital work at Company-owned gate
7 station facilities. The second category is work on
8 pipeline-owned facilities that primarily benefits the
9 Company and its customers. Costs associated with this
10 second category are usually recovered as a surcharge
11 through the monthly rate adjustment ("MRA") for projects
12 approved by the Commission, as set forth in the Company's
13 Gas Tariff.

14 Q. Is the Company proposing any gate station projects during
15 RY1-RY3 that fall under the first category (*i.e.*, work on
16 Company-owned facilities)?

17 A. Yes, the Company plans to refurbish the Algonquin Cortlandt
18 gate station. This work is scheduled to occur in 2022 and
19 2023. The cost associated with this project is \$11 million
20 in RY1, as set forth in Exhibit ____ (GIOSP-1). The need for
21 this project is discussed in the whitepaper.

22 Q. Is the Company proposing any gate station projects during
23 RY1-RY3 that fall under the second category (*i.e.*, work on

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1 pipeline-owned facilities that primarily benefit the
2 Company and its customers)?

3 A. The Company is not proposing any new projects in this
4 second category. But the Company is updating the cost
5 estimate for the Tennessee White Plains gate station
6 project, which was approved under the current Gas Rate Plan
7 (Case 19-G-0066). The work at the gate station has been
8 completed.

9 Q. What are the Company's final costs related to the White
10 Plains gate station?

11 The final costs associated with the White Plains gate
12 station work have not been provided to the Company as of
13 the date of this rate filing. To the extent available, the
14 Company will provide any additional information it obtains
15 during the update phase of this proceeding. In the event
16 that final cost information is not available by the update
17 phase of this proceeding, the Company proposes to defer any
18 costs in excess of the \$11 million approved in Case 19-G-
19 0066, for recovery in the Company's next base rate filing.

20 **3. Renewable Natural Gas - Mount Vernon Interconnection**

21 Q. Please describe the Mount Vernon RNG interconnection
22 facility investment.

23 A. The Mount Vernon RNG interconnection facility is part of
24 the Company's Smart Solutions initiatives. One of the

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1 Smart Solutions for gas customers is to solicit the energy
2 market for cost effective alternatives to pipeline capacity
3 though non-pipeline alternatives ("NPAs"). In response to
4 a request for proposals ("RFP"), a vendor has proposed a
5 facility that will produce RNG from food waste within Con
6 Edison's service territory. Con Edison will install
7 equipment to support the interconnection to this RNG
8 facility, which will consist of metering, gas quality
9 measurement, odorant measurement and remote shutdown. The
10 Company forecasts the following expenditures for these
11 projects: \$1.5 million in RY1, as set forth in Exhibit ____
12 (GIOSP-1).

13 Q. How does this investment align with the Company's clean
14 energy commitments?

15 A. This RNG facility provides the ability for waste-related
16 methane to be captured and used, in lieu of being released
17 into the environment.

18 This interconnection is the first of its kind supplying the
19 Con Edison system and opens the door for other similar
20 interconnections in the future.

21 **4. Pressure Control**

22 Q. Please describe the functions performed by the Pressure
23 Control Department.

24 A. The Pressure Control Department is primarily responsible

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1 for the maintenance and operation of the Company's gas
2 pressure reduction equipment. This equipment ranges from
3 major transmission gate station assets to the many
4 components that make up the high and low-pressure district
5 regulator stations located throughout the Company's service
6 territory. Most of this equipment is located within below-
7 grade manhole structures underneath roadways and sidewalk
8 areas. This equipment includes 337 regulator stations.
9 The Pressure Control Department validates each station's
10 operating condition annually, as well as conducting monthly
11 site inspections.

12 Q. Please summarize the capital expenditures projected for the
13 Pressure Control Department during the 2023-2025 period.

14 A. The Pressure Control Department sponsors three capital
15 programs that are planned for the rate years. The Company
16 estimates capital expenditures of \$20.3 million in RY1;
17 \$20.2 million in RY2; and \$20.2 million in RY3, as set
18 forth in Exhibit ___ (GIOSP-1). These investments are
19 needed for safe and reliable service, because they keep
20 essential pressure control equipment operational and give
21 the Company new monitoring and control capabilities, which
22 reduce the possibility of an overpressure event or loss of
23 service continuity.

24 Q. Please describe the capital programs planned to be

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1 completed by the Pressure Control Department.

2 A. The capital programs planned to be completed by the
3 Pressure Control Department are: Regulator Automation,
4 Regulator Station Improvements, and Station Gas Detector &
5 Fire Detection/Alarm Systems. All are described in more
6 detail in the applicable White Papers.

7 The largest project of this category is Regulator
8 Automation. The purpose of this program is to install
9 automated control equipment at regulator stations
10 throughout the gas system to enable remote operation while
11 providing real time visibility. Also included is the
12 installation of enhanced OPP equipment on the low-pressure
13 gas system to provide additional levels of protection to
14 prevent pressure exceedances. Where applicable, these
15 installations will also include the replacement of
16 regulator station piping that contains bypasses which
17 connect different MAOP systems, the replacement of
18 distribution mains that connect to pressure division
19 valves, or the relocation of regulator station sensing,
20 control, and overpressure protection monitoring lines
21 within the boundaries of regulator stations to improve
22 station operation and overpressure protection. The Company
23 forecasts the following expenditures for this program:
24 \$19.1 million in each of RY1, RY2, and RY3, as set forth in

1 Exhibit ____ (GIOSP-1).

2 **C. NATURAL GAS DETECTORS**

3 Q. What is the purpose of NGDs?

4 A. NGDs are safety devices installed indoors near the gas
5 point-of-entry ("POE") and head of service valve intended
6 to provide continuous monitoring of atmospheres for a
7 concentration of methane that result in an alarm. When a
8 NGD alarms (10% lower explosion limit), this alarm
9 information is transmitted through the AMI network to the
10 Gas Emergency Response Center ("GERC"). The GERC will then
11 notify the local fire department and dispatch a Gas
12 Distribution Services ("GDS") mechanic to respond to the
13 potential gas leak using normal leak response protocols.

14 Q. What benefits do NGDs provide to customers?

15 A. The accumulation of natural gas in a building can occur
16 from a leak on the buried gas distribution infrastructure
17 located outside of the building. Gas migrates through the
18 soil or through a utility service POE and into the
19 building. Buildings are typically constructed where the
20 majority of utility POEs (water service, sewer pipe, buried
21 electric service) are normally in close proximity to the
22 gas POE. Locating the NGD on service line pipe near POE
23 provides detection capability for this type of occurrence.

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1 It will also detect leaks on nearby customer piping or
2 equipment.

3 The development of methane sensor technology in combination
4 with the Company's AMI communication network presents a
5 first-of-a-kind and unique opportunity to pair remote
6 methane detection with the AMI communication infrastructure
7 that will enable a direct alarm to the Company's GERC that
8 could prevent a gas incident in the future, improving
9 public safety.

10 Using NGD technology will improve public and employee
11 safety by identifying potential leaks much earlier than
12 relying on odor calls, allowing GDS crews more time to
13 identify potential gas leaks, make the location safe and
14 evacuate the public if necessary.

15 Q. What investments are required to install and maintain NGDs?

16 A. Con Edison started mass deployment and monitoring of AMI
17 enabled NGDs in 2020 after successful completion of the
18 pilot phase of NGD deployment in 2019. To date, the
19 Company has installed approximately 90,000 AMI NGDs and is
20 estimated to install a total of 150,000 through the end of
21 2022. As of December 31, 2021, the Company has received
22 and responded to over 900 NGD alarms.

23 NGD installations for rate case years 2023-2025 are
24 estimated to be: 65,700 in RY1, 73,300 in RY2, and 67,800

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1 in RY3. To reduce the cost of installations and decrease
2 the number of visits to customers' homes and buildings,
3 when possible, NGD installations will be completed with
4 other work including service line/meter inspections.

5 In total, we currently anticipate the following capital
6 expenditures to install and support NGD's during the
7 upcoming 2023-2025 period: \$33.3 million in RY1, \$37.6
8 million in RY2, and \$35.2 million in RY3 as shown in
9 Exhibit ____ (GIOSP-1).

10 **D. PROPOSALS TO INCREASE CUSTOMER INTEREST IN GAS ALTERNATIVES**

11 Q. How does the Company propose to make alternative energy
12 solution options more attractive for new customers and
13 support non-fossil technology adoption?

14 A. In line with the Company's clean energy commitment, we are
15 proposing to eliminate certain tariff provisions that
16 facilitate natural gas use but exceed statutory
17 requirements. The Company is also enhancing the
18 information it provides to customers, with the goal of
19 discouraging customers from using or expanding their use of
20 natural gas.

21 Q. Please describe the Company's proposed tariff
22 modifications.

23 A. First, the Company is proposing to eliminate language in
24 its gas tariff that allows multiple customers seeking to

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1 connect to the Company's gas distribution system to pool
2 their installations and avoid connection costs.

3 Eliminating the "concurrent connections" tariff language
4 will preclude sharing of benefits between customers who
5 otherwise would exceed their individual allotment of main,
6 but for the fact that other customers connected at the same
7 time and did not use their full allotment. As an example,
8 a customer who needed 120 feet of main while the next
9 building only needed 80 feet could "use" the current tariff
10 allowance and would not incur any additional cost. This
11 language is a legacy of the gas expansion period in the
12 Company's history and is no longer part of our forward-
13 looking clean energy vision.

14 Second, customers who pay for the main extension currently
15 benefit from connections made along that length of main by
16 subsequent customers connecting within a five-year window.
17 Going forward the Company proposes that reimbursement (in
18 part or in full) for costs to customers who chose to pay
19 for their main extension be eliminated. Third, the
20 Company is proposing to eliminate the "revenue test" for
21 all customers, thus requiring every foot beyond the 100-
22 foot allotment under law be paid for by the customer in
23 full prior to the commencement of the work. Customers can
24 currently avoid such charges if they can demonstrate that

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1 their gas usage will generate revenues above a specified
2 threshold.

3 Finally, the Company proposes that no customer will receive
4 a service determination (also referred to as a "ruling")
5 for natural gas service of any size or for any purpose
6 without first acknowledging in written form that they have
7 been provided information on non-fossil alternatives and
8 that they are aware of climate protection laws and
9 regulations.

10 Q. What is the "100-foot rule"?

11 A. The obligation to provide customers a total of 100-feet of
12 main and/or service without cost is codified in Public
13 Service Law § 31. Section 230.2 of the Commission's
14 regulations goes beyond the Public Service Law, based on
15 the type of customer requesting service and usage.
16 Specifically, for a residential heating customer, Section
17 230.2 requires New York State local distribution companies
18 ("LDCs") to provide 100 feet of main *and* 100 feet of
19 service, while for Residential non-heating customers and
20 nonresidential customers Section 230.2 requires a *total* of
21 100 feet of main and/or service, plus the length of service
22 line necessary to reach the edge of the public right-of-
23 way.

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1 Q. What is the Company proposing with respect to the "100-foot
2 rule"?

3 A. The Company is not proposing any deviation from the
4 requirements of the Public Service Law. But we are
5 requesting a waiver from the requirements of 16 NYCRR
6 §230.2 that provides additional piping to residential
7 heating customers. Instead, the Company is proposing to
8 provide all customers (regardless of customer type or
9 usage) with a combined total of 100 feet of main and/or
10 service, plus the length of service line necessary to reach
11 the edge of the public right-of-way.

12 Q. Why are you requesting a waiver?

13 A. Some of the tariff modifications described above are not
14 consistent with current Commission regulations and
15 therefore require a waiver for implementation.
16 Specifically, a waiver is required for the Company's
17 proposals: to eliminate the revenue test for all customers;
18 to eliminate reimbursements to customers who chose to pay
19 for their main extensions due to subsequent customer
20 connections; and to combine the 100-foot allotment of main
21 and service, irrespective of the customers' service
22 classification or usage. The Company's waiver request will
23 apply to new customer connections only. These proposed
24 measures will bring greater price parity between natural

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1 gas service and alternatives for many customers, while
2 still allowing customers to make connections to existing
3 infrastructure in accordance with our statutory
4 obligations. These changes, however, require a waiver of
5 16 NYCRR §§230.2 and 230.3.

6 Q. What is the Company's justification for such a waiver?

7 A. As explained throughout our testimony, the Company fully
8 supports the State's clean energy policy and efforts to
9 achieve CLCPA requirements. While we recognize that
10 important work related to the CLCPA is ongoing and final
11 decisions in many key areas are still pending, we view the
12 requirements in 16 NYCRR §§230.2 and 230.3 as incongruent
13 with the CLCPA and highly unlikely to continue in their
14 current form. Therefore, we believe a waiver is justified
15 in anticipation of expected changes to the Commission's
16 regulations and to advance important, state-wide policy
17 goals.

18 **E. CUSTOMER CONNECTIONS**

19 Q. How has the Company advanced its goals through Customer
20 Connections?

21 A. As described in more detail below, the Company's Customer
22 Connections investments have offered the opportunity to
23 enhance both customer engagement and operational
24 performance. The Company is obligated by the Public

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1 Service Law to provide gas service to new customers (even
2 if we have educated them on the alternatives and they
3 decline) and requests to increase gas demand for existing
4 customers. In accordance with this obligation, we will
5 continue to provide safe, reliable service to our customers
6 in a cost-effective manner. However, as stated above, we
7 encourage all potential natural gas customers to consider
8 alternative (*i.e.*, non-fossil) energy solution options.
9 Additionally, as outlined above, the Company's proposed
10 tariff changes should have an impact on Customer
11 Connections, as those changes are put into effect. The
12 Company is forecasting a reduction in the number of
13 customer connections during RY1-RY3, with even more
14 significant reductions anticipated in the future.

15 Q. Are the Company's proposed tariff changes reflected in the
16 forecast for customer connections?

17 A. No, considering we have no experience regarding the impact
18 these proposed changes would have, it would be premature to
19 reflect them in the Company's forecast. However, the
20 Company notes that, under the downward-only capital
21 reconciliation it is proposing, any capital underspending
22 would be returned to customers.

23 Q. What are the projected overall costs associated with the
24 Customer Connections Program?

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1 A. As presented in Exhibit ___ (GIOSP-1), the Company projects
2 the following expenditures for this program: \$73.1 million
3 in RY1; \$74.6 million in RY2; and \$76.7 million in RY3.

4 The overall costs are for the installation and replacement
5 of gas services and main associated with facilitating
6 customer connection requests.

7 Q. Does the Company's request reflect an overall lower growth
8 rate, including the impact of this industry change?

9 A. Yes. The current request assumes a significant reduction
10 from historical service installations and associated main
11 installation.

12 Q. Do you expect the Westchester moratorium to continue during
13 the potential 2023-25 rate plan period?

14 A. No. We anticipate being able to lift the moratorium at the
15 end of in RY1, as further described below in the Gas Supply
16 portion of this testimony.

17 Q. Have you considered the New York City legislation or other
18 state CLCPA initiatives when planning the Customer
19 Connections program?

20 A. Yes. As discussed above, the number of customer
21 connections anticipated is decreasing, but this will have a
22 limited impact in the RY1-RY3 period. We expect to see
23 more dramatic reductions in future rate cases.

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1 Q. Why is the Company anticipating a limited impact in the
2 RY1-RY3 period?

3 A. The New York City legislation will only begin to go into
4 effect during this rate case, with certain building sectors
5 having until 2027 to comply.

6 Q. Beyond the construction cost to install gas services and
7 gas main to support growth, are there additional associated
8 expenses the Company will incur?

9 A. Yes. We have a dedicated program to purchase and install
10 gas meters. As explained in Exhibit ___ (GIOSP-1), Meter
11 Purchases and the Meter Installation programs support the
12 mandated replacement of existing meters for new connections
13 and conversions programs. The following Section F.3
14 discusses this topic further.

15 **F. TECHNICAL OPERATIONS**

16 Q. Please summarize and briefly explain the purpose of this
17 Technical Operations testimony.

18 A. Consistent with core Company principles this Section will
19 discuss the importance of, and overall need for,
20 infrastructure, operations, and technology investments to
21 reduce risk, enhance safety across the system, and enhance
22 system operational performance, for specific Company
23 assets. Included is the Liquefied Natural Gas ("LNG")

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1 Plant, Tunnels, Meters, Natural Gas Detectors, and Gas
2 Information Technology.

3 **1. LNG Plant**

4 Q. How does the Company's LNG facility benefit customers?

5 A. Con Edison uses its liquefied natural gas facility to
6 maintain adequate supply during gas peak operations. The
7 LNG Plant serves as a cost-effective alternative to more
8 expensive firm peaking supplies and as a contingency
9 resource, in the event of any incident impacting our
10 external supply sources.

11 The LNG Plant is the only source of in-city natural gas
12 supplying Con Edison's customers in the event of an
13 interstate pipeline interruption or other emergency
14 condition affecting external gas supply. The LNG Plant
15 continues to serve as a supply and hourly balancing source
16 during very cold days, as its capacity is needed during
17 design peak day conditions to meet the needs of our firm
18 customers. The LNG Plant also serves firm gas customers by
19 potentially mitigating short term price volatility.

20 Q. Why are the LNG Plant's planned programs necessary?

21 A. The proposed capital programs and projects are important to
22 continue safe plant operations and maintain plant
23 reliability for the following plant systems: withdrawal

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1 (vaporizers), tank management, and injection (liquefaction)
2 process plant. In addition, these projects are important
3 measures to harden the LNG Plant.

4 Critical components of the plant are obsolete, with the
5 original equipment manufacturer(s) unavailable to provide
6 parts and services. Mechanical integrity of equipment is
7 important for employee and public safety. The current
8 liquefaction nitrogen refrigeration cycle is inefficient
9 and does not fill the LNG tank in six months, consistent
10 with its original design. To bring the plant up to
11 standard, we plan to invest over \$70.4 million in plant
12 infrastructure over the next five years, starting in RY1.
13 This will allow for the Company to continue to deliver
14 affordable natural gas to our customers when they need it
15 the most and continue to provide reliable services for gas
16 peaking, unplanned upstream gas system contingency and to
17 mitigate gas price volatility.

18 Q. What investments are required in the Company's LNG
19 facility?

20 A. As shown in Exhibit ___ (GIOSP-1), the investments are
21 described in five areas:

22 1) Instrumentation upgrade program:

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- 1 • Plant Controls Instrumentation Upgrade Program: \$12
2 million in RY1 and \$2 million in RY2.
- 3 2) Nitrogen Refrigeration Cycle Replacement:
- 4 • Nitrogen Refrigeration Cycle Replacement: \$10 million
5 in RY1 and \$10 million in RY2.
- 6 3) Electrical equipment upgrades and relocation:
- 7 • Motor Control Center: \$2.8 million in RY1 and \$500,000
8 in RY2.
- 9 • Electrical Distribution System Upgrade: \$1.9 million
10 in RY1.
- 11 4) Equipment integrity projects:
- 12 • Plant Boil-Off Compressor Replacement: \$2 million in
13 RY1 and \$400,000 in RY2.
- 14 • Security Upgrade Program: \$2.87 million in RY1.
- 15 5) Reliability Remediation Program:
- 16 • Various reliability projects including relocation of
17 the LNG Meter Station, and the Independent Flare Gas
18 Supply: \$7 million in RY1, \$8.25 million in RY2 and
19 \$4.75 million in RY3.

20 These programs reflect a \$68 million capital improvement
21 investment at the LNG Plant during this coming rate period.
22 This amount is broken down as follows: \$38.6 million in
23 RY1, \$21.15 million in RY2, and \$4.75 million in RY3, as

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1 set forth in Exhibit ____ (GIOSP-1), with some projects
2 extending past this proposed rate period.

3 Q. Please explain further the work that is planned for the LNG
4 facility.

5 A. The new Instrument Upgrades Program contains real-time
6 monitoring, data acquisition and analysis tools. The new
7 Nitrogen Refrigeration Cycle Replacement will replace the
8 original obsolete equipment. The nitrogen refrigeration
9 cycle will have a new, more efficient turbine that will
10 produce less CO₂ air emissions per million cubic feet of LNG
11 produced. With recent local supply constraints and the LNG
12 plant having the ability to withdraw and provide 15% daily
13 supply to the transmission system, the ability to quickly,
14 efficiently, safely fill the tank with new modern reliable
15 nitrogen refrigeration cycle allows the LNG Plant to be a
16 reliable supply source for gas system resiliency.

17 The new Electrical equipment upgrades and relocation will
18 provide both a new motor control center and a new high
19 tension vault substation relocated away from the existing
20 natural gas transmission main and both projects will
21 improve employee safety and plant reliability. The new
22 equipment will meet current arc flashing, newer national
23 electric code requirements, and replace original (50-year
24 old equipment upon replacing) and obsolete equipment. This

1 upgrade and relocation will modernize, make electrical
2 power more reliable, and increase the plant's safety.
3 LNG projects consist of multiple system reliability
4 requirements for safety, system reliability and to enable
5 continued safe operation as shown in Exhibit ____ (GIOSP-1).

6 **2. Tunnels**

7 Q. Briefly describe the Company's tunnel facilities and their
8 importance in delivering safe and reliable energy services
9 to the Company's electric, gas and steam customers.

10 A. There are eight utility tunnels on the Company's system.
11 These tunnels house critical electric, gas, and steam
12 facilities, as well as a fuel oil line and
13 telecommunications systems. They are critical pathways for
14 service lines under bodies of water, except for one, which
15 was needed for our steam transmission infrastructure after
16 the retirement of the Waterside Steam Generating Plant and
17 does not cross under a body of water. Tunnel
18 infrastructure is significantly impacted by atmospheric
19 corrosion, water infiltration and salt deposits. The
20 original infrastructure (e.g., cast steel liner, steel
21 beams), feeder cables, lighting and electrical outlets, and
22 gas main rollers are exposed to heavy salt and water
23 infiltration. In addition, safety components such as the

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1 fire and gas monitoring systems have become obsolete. If
2 this infrastructure is not replaced there is an increased
3 risk of a catastrophic failure jeopardizing the reliability
4 of the electric, gas and steam transmission and
5 distribution systems.

6 Q. Why are the proposed projects necessary for the tunnels?

7 A. These projects are required for system reliability,
8 employee safety, and to enable continued access to critical
9 infrastructure. This includes the gas main rollers, feeder
10 cables, elevators, cast steel liner, structural concrete,
11 ladders and landings, electric and ancillary equipment such
12 as sump pumps, lighting, and remote monitoring capability.
13 All of these are subject to corrosion and deterioration due
14 to ground water intrusion and exposure to extreme moisture,
15 salt, humidity, and heat, especially in the tunnels that
16 carry steam mains.

17 Q. What are the critical projects related to tunnel system
18 safety, customer experience, operational excellence or
19 clean energy?

20 A. As shown in Exhibit ____ (GIOSP-1), and described further in
21 the associated white papers, the tunnels projects are:

- 22 • Fire and Gas Monitoring Replacement: \$1.5 million in
23 RY1 and \$1.5 million in RY2.

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- 1 • Ravenswood Gas Main Rollers: \$1.7 million in RY1 and
2 \$1.8 million in RY2.
- 3 • Ravenswood Concrete Restoration: \$225,000 in RY1.
- 4 • Conduit Bulkhead Replacement: \$1.0 million in RY1.
- 5 • Astoria Cast Steel Liner Replacement: \$1.0 million
6 in RY1.
- 7 • Lighting Improvement Program: \$1.0 million in RY1;
8 \$1.0 million in RY2; and \$1.0 million in RY3.
- 9 • Carbon Fiber Wrap Program: \$701,000 in RY1; \$744,000
10 in RY2; and \$765,000 in RY3.
- 11 • Replacement Feeder Rollers: \$1.7 million in RY2.
- 12 • Steel Replacement Program: \$877,000 in RY1; \$930,000
13 in RY2; and \$957,000 in RY3
- 14 • Astoria Elevator Modernization: \$600,000 in RY1.
- 15 • Annual Sump Pump Program: \$100,000 in RY1; \$100,000
16 in RY2; and \$100,000 in RY3.

17 In total, the capital expenditures to support these tunnel
18 projects during the upcoming 2023-2025 period are \$8.7
19 million in RY1; \$7.8 million in RY2; and \$2.8 million in
20 RY3.

21 Q. Is the Company considering moving responsibility for the
22 tunnels to another organization?

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1 A. Yes. We are considering moving the Tunnel Maintenance
2 organization from Gas Operations to Central Operations.

3 Q. Please explain why this move is under consideration?

4 A. There are several reasons. These are multi-commodity
5 tunnels that carry electric transmission feeders, steam
6 mains, as well as gas mains. However, Gas Operations has
7 historically had the responsibility for the maintenance of
8 the tunnels, and the capital expenditures associated with
9 improvement projects have fallen under Gas Operations and
10 therefore paid for by gas customers. Additionally, most
11 O&M expense for maintenance of the tunnels is also paid by
12 gas customers. As we consider future rate mitigation
13 opportunities given the foreseeable drop in demand for gas,
14 we are evaluating whether the tunnels would be more
15 appropriately paid for by electric customers. As such, we
16 are exploring a re-organization to place the Tunnel
17 Maintenance group under Central Operations and thereby
18 shift the capital and O&M expenditures to electric
19 customers. An update of the Company's analysis and plans
20 will be provided in the update testimony.

21 **3. Meters**

22 Q. How will the Company's proposed meter purchase and meter
23 installation programs foster better customer engagement?

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1 A. These programs allow the Company to provide safe and
2 reliable gas service to our customers. In addition, these
3 programs also support the Company's mandated meter
4 replacement programs. We discuss below the need for this
5 program and how its related to the Company's AMI program.

6 Q. What meter investments are required by Technical
7 Operations?

8 A. Technical Operations purchases gas meters and related
9 devices for all our customers. When possible, we refurbish
10 meters and when necessary we replace them. Our investment
11 in this area takes into account historic replacement and
12 refurbishment. Currently, 34 percent of the meters
13 purchased and installed are related to mandated meter
14 replacement programs and required replacements, while 66
15 percent of the meters purchased and installed are
16 associated with customer connections or replacements of
17 existing customer meters who are increasing their existing
18 gas demand. While customer connection projects have
19 decreased, we have experienced an increased need to replace
20 undersized meters, which have been identified as a result
21 of new AMI information. For this reason, the estimates
22 used below remain level with historical numbers, for the
23 short-term forecasting related to this rate case.

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1 Installations are estimated at approximately \$17 million
2 annually, while purchases are estimated at approximately
3 \$11 million annually. Annual costs for purchases and
4 installations are based on historical and projected usage.
5 These capital expenditures include funding for the purchase
6 of meters and related devices (e.g., interruptible customer
7 monitors (Metscans), service regulators, and electronic
8 correctors); outsourced meter-related services for mandated
9 meter programs required by 16 NYCRR 226; and for
10 repair/replacement of defective meters (e.g., customer
11 complaints, broken meters, tampering) in accordance with
12 Commission regulations. As shown in Exhibit ____ (GIOSP-1),
13 these programs are listed as:

- 14 • Meter Purchases - Customer Connections and Meter
15 Replacement Programs (\$12 million in RY1, \$12 million
16 in RY2, and \$12 million in RY3); and
- 17 • Meter Installations - Customer Connections and Meter
18 Replacement Programs (\$19.4 million in RY1, \$20.9
19 million in RY2, and \$20.9 million in RY3).

20 Q. How do the meter investments discussed above take into
21 account AMI deployment?

22 A. Metering costs and savings associated with AMI are
23 independent of the meter investments discussed above

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1 because there will still be a need for meter installations
2 and replacements independent of AMI deployment.

3 Approximately 250,000 gas meters have been replaced with
4 new meters equipped with AMI modules, that were required by
5 the PSC to be remediated by 2021. The remaining 950,000 or
6 so gas meters were retrofitted with AMI gas modules.

7 Although there are many benefits to these AMI replacements,
8 once in service, these meters will have the same operations
9 and maintenance requirements as any other meter.

10 Additionally, a large population of older meter classes
11 will require remediation during this coming rate case.

12 **G. GAS INFORMATION TECHNOLOGY**

13 Q. What Information Technology ("IT") improvements are planned
14 for Gas Operations?

15 A. Gas Operations is presenting IT investments in the
16 following two categories: Gas Control Center and Outage
17 Management. Further details for each can be found in the
18 associated white papers, with a few of the larger capital
19 investments highlighted below. There are also gas-related
20 IT programs, including the Work Management Program, that
21 are separately being addressed by the Company's IT Panel.

22 **1. Gas Control Center Improvements**

23 Q. What improvements are planned for the Gas Control Center?

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1 A. Gas Control is presenting three items for this Rate Case.
2 They are Operator Training System ("OTS") Simulator
3 Project, End of Life ("EOL") Equipment Replacement Program,
4 and Gas Control Center ("GCC") Improvements Projects.
5 Further details for each item can be found in the
6 associated white papers.

7 The GCC Improvements is the largest capital investment in
8 this category and consists of three improvement projects
9 for the GCC. The first is the relocation of the Alternate
10 GCC from Manhattan to Westchester, the second is the Gas
11 Operations Supervisory System ("GOSS") and Gas Day
12 Operations ("GDO") Application Upgrades, and the final
13 project is the furnishment for the relocation of the
14 Primary GCC. The expenditures associated with this project
15 are \$2.7 million in RY1; \$3.0 million in RY2; and \$3.95
16 million in RY3, as shown in Exhibit ___ (GIOSP-1). This
17 project also has an O&M component which is further detailed
18 below.

19 Q. What are the benefits to Gas Operations that are
20 anticipated from the GCC Improvements?

21 A. The proposed GCC Improvement projects will provide numerous
22 safety and reliability benefits for our gas customers and
23 the public. The relocation of the Alternate GCC from
24 Manhattan to Westchester will significantly reduce response

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1 time under a forced relocation from the primary site, while
2 developing the site using industry and international
3 standards will help address Pandemic lessons-learned and
4 the expansion of the Gas Control Department since the
5 original facility's construction. The GOSS and GDO
6 Application upgrade will maintain Gas Operations critical
7 remote monitoring and control applications on supported
8 software and mitigate potential cybersecurity threats to
9 the Gas HVN. Finally, the new GCC will allow Gas
10 Operations to leverage best-in-class Control Center
11 strategies to provide Gas Control Operators the tools to
12 rapidly address abnormal operating conditions while
13 facilitating Gas Operations organizational response to
14 significant events, all while remaining compliant with
15 Control Room Management compliance requirements.

16 Q. Have plans for the new GCC changed since the last rate case
17 filing?

18 A. Yes, due to lessons learned from the pandemic, business
19 user requirements, and projected schedules for the original
20 location's Re-Development Project, the location of the new
21 GCC has changed to a location within an existing facility
22 in Westchester.

23 Q. What changes were made?

24 A. Additional user requirements were incorporated, which was

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1 not possible at the original location. The schedule was
2 also deferred to later years, due to the pandemic, which
3 temporarily halted progress. Due to these challenges, the
4 new GCC will now be completed within this rate case.

5 Q. What investments are being requested for this Rate Case,
6 related to the new GCC?

7 A. As described above and further in the associated white
8 paper, the furnishment portion of the GCC Improvements
9 Projects, as presented by the GIOSP. Other additional
10 funding included as part of the relocation and new
11 location's re-development project is being put forth by
12 Facilities, under the Shared Services panel.

13 **2. Gas Outage Management System**

14 Q. What is the Company proposing related to a gas outage
15 management system ("OMS")?

16 A. The Company is proposing an investment in the development
17 and deployment of a gas OMS. The Company does not
18 currently have such a system, so initial IT software
19 development will be required for this project. The
20 projected expenditures associated with this project are \$9
21 million in RY1 and \$8.8 million in RY2, as shown in Exhibit
22 ____ (GIOSP-1), with associated O&M costs to be seen in RY3
23 and discussed further below.

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1 Q. What are the current challenges in managing gas outages?

2 A. Without an OMS, identifying gas outages is done through
3 direct communications with customers and tracking outage
4 impacts is done by manually researching several systems,
5 then using field verification to confirm. This is an
6 administrative burden that requires extensive resources
7 from several departments.

8 Q. In what scenarios would the Company use the OMS?

9 A. Generally speaking, the Company would leverage an OMS
10 during larger outages, of 50 or more services or when
11 larger buildings with 200 or more customers are affected.
12 However, we believe even the management of smaller scale
13 outages can benefit from an OMS.

14 Q. Please provide an example of a situation when such a large
15 outage might be expected to occur.

16 A. While the gas system is extremely reliable, when outages do
17 occur, they can be extensive. The most common occurrence
18 is a result of water intrusion or damage, such as an event
19 like Hurricane Ida. Gas outages can take considerably
20 longer to restore service than an electrical outage;
21 therefore, the implementation of an OMS system could be
22 very beneficial to the affected customers and facilitate a
23 better response.

24 Q. What are the benefits of having an OMS?

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1 A. Having an OMS would help identify outages quicker via
2 instant detection when faced with extreme weather or system
3 related issues that compromise supplying service to
4 customers. Having the ability to track outages with
5 advanced technology as opposed to a manual process will
6 provide an administrative advantage. One such example is:
7 through system integrations (with systems such as AMI), the
8 OMS can receive the electric meter count data for master
9 metered buildings, providing quick and accurate customer
10 outage information. The OMS would also serve as a
11 repository to record outages throughout our system.

12 Q. How would an OMS impact communication?

13 A. Field, control center, and administrative employees will be
14 able to view status information for outages. Dashboards
15 will be shared that include locations, resources, and real-
16 time status information. This will enhance communication
17 between the control center and the field. Dashboards that
18 include outage progress and additional tracking information
19 will also be available.

20 Q. How does the Company plan to use an OMS to improve outage
21 restoration?

22 A. An OMS should provide quick visibility into the number of
23 customers affected by an event. Large outage areas can
24 then be divided into several outage status areas, to

1 increase visibility on customers pending restoration and to
2 focus resources accordingly. Additionally, when
3 implemented, we expect this new system will provide timely
4 and accurate information to customers when they need it
5 most.

6 **IV. OPERATION & MAINTENANCE PROGRAM CHANGES**

7 Q. What O&M Program Changes are the Company putting forward?

8 A. The Company is requesting O&M Program changes for the
9 following programs: Service Line Inspections, Bridge
10 Inspections, High Emissions Surveillance, and various
11 software needs related to capital projects, with the
12 Service Line Inspections being the largest O&M change
13 request. Similar to the Company's capital expenditures,
14 the majority of projected O&M expenses are focused on
15 safety-related programs. The following testimony describes
16 these program changes in further detail:

17 **A. Service Line Inspections**

18 Q. Please explain how the definition of "service line" has
19 changed in recent years.

20 A. On April 2, 2015 in Case No. 14-G-0357, the Commission
21 revised the definition of "service line" in 16 NYCRR
22 255.3(a)(29) to align with federal law. As a result of the
23 new definition, New York State gas utilities were required
24 to perform leakage surveys and corrosion inspections on

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1 piping that was previously not considered to be a "service
2 line" under the Commission's rules. Specifically, under
3 the prior definition, a service line associated with a gas
4 meter inside a building ended at the first fitting inside
5 the building. Under the revised definition, a service line
6 extends further into the building and ends at the meter's
7 outlet.

8 Q. Please describe the Company's experience inspecting the
9 piping that was newly designated as Commission-
10 jurisdictional service lines.

11 A. In accordance with the Commission's order in Case 15-G-
12 0244, the Company initiated "baseline" inspections in 2017
13 to evaluate the newly jurisdictional pipe for the first
14 time. These inspections targeted more than 300,000 service
15 lines and nearly 1 million inside gas meters, of which
16 approximately 200,000 are inside building sets in
17 apartments (room sets).

18 Pursuant to State executive orders to address COVID-19, Con
19 Edison suspended the inspections in March 2020. The
20 Company resumed inspections in July 2020, when New York
21 City entered Phase III of the reopening plan. At that
22 time, the Company had 150,000 services and 400,000 gas
23 meters left to inspect. Con Edison and other local
24 distribution companies petitioned the Commission for an

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1 extension to complete the inspections until August 1, 2020,
2 and the Commission granted the request.

3 Q. What efforts had the Company taken to complete the
4 inspections prior to July 2020?

5 A. The Company notified customers of the required inspections
6 and their obligation to provide access to our equipment.
7 The Company communicated with customers through emails,
8 letters, social media, a dedicated webpage, drop cards,
9 phone calls, meetings with building management
10 associations, and a robust appointment-scheduling process
11 employed by our contractor. The Company made at least two
12 attempts per premises (as required) to gain access for the
13 inspections.

14 Q. Did the Company complete the inspections by August 1, 2020?

15 A. No.

16 Q. What was the primary reason that the Company was not able
17 to complete the inspections?

18 A. Inability to gain access to the inside of buildings to
19 perform the inspections, despite several attempts,
20 exacerbated by customer reluctance to provide access
21 because of COVID-19.

22 Q. What are some of the actions the Company took to gain
23 access?

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1 A. In addition to the efforts we already described, after
2 resuming inspections in July 2020, the Company initiated an
3 email campaign for customers who have email addresses on
4 file and modified its letters and drop cards to include
5 enhancements to appointment scheduling and information
6 about the Company's COVID-19 safety precautions. The
7 Company also created a notice that is placed directly on
8 customers' bills when a fee is assessed. On December 22,
9 2020, the New York State Department of Public Service Chief
10 of Pipeline Safety and Reliability provided a letter ("DPS
11 Letter") emphasizing the importance of these inspections
12 and the need for customers to provide access to allow
13 utilities to perform these inspections. The Company began
14 sending the DPS Letter to No-Access customers shortly after
15 it became available. Con Edison also used no access fees
16 to encourage customers to provide access for inspections.

17 Q. Did the Company take any further actions to complete
18 inspections at these no access locations?

19 A. Yes. The Company increased the number of dedicated
20 technicians performing additional cold call attempts, which
21 resulted in a significant number of scheduled appointments
22 through these communication efforts. In addition, the
23 Company increased efforts to perform additional service
24 line inspections when it was able to access a building for

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1 other work reasons (e.g., turn-ons, inside leaks, meter
2 exchanges, NGD installations, second cycle business
3 district re-inspections). Despite these efforts, these
4 opportunistic inspections resulted in only modest
5 reductions in the Company's remaining backlog.

6 Q. Did Staff direct the Company to further revise its
7 procedures for complying with the new gas service line
8 rules?

9 A. Yes. On December 31, 2020, to comply with Staff's
10 directive, the Company filed a compliance plan in Case 15-
11 G-0244 (Petition to Establish an Additional Compliance
12 Method for Gas Service Line Leakage Surveys/Corrosion
13 Inspections for Premises with Access Issues) ("Service Line
14 Compliance Plan"). The Commission has not issued an order
15 on the petition, but Staff has made it clear that the
16 Company must comply with the revised plan that it filed.

17 Q. What has the Company done under the Service Line Compliance
18 Plan and what have been the results?

19 A. As outlined in the Service Line Compliance Plan, the
20 Company has continued to conduct baseline gas service line
21 inspections and intensified its efforts to notify customers
22 of the inspection requirements in writing, assess fines
23 where appropriate, and place customers that continued to
24 refuse access under the threat of termination. Since the

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1 inception of the program, the Company has sent out: 1.1
2 million letters, over 110,000 e-mails, over 170,000 fee
3 warning letters (a net of over 60,000 accounts were
4 assessed fees) over 110,000 turn off warning letters, and
5 over 77,000 final and reoccurring termination warning
6 letters.

7 Q. How is the Company handling the remaining "No-Access"
8 customers?

9 A. After all efforts were exhausted, Con Edison placed these
10 customers into a separate service termination process. As
11 of December 31, 2021, there were approximately 26,000
12 services and approximately 52,000 gas meters remaining to
13 be inspected. The Company continues to attempt to gain
14 access to complete these inspections to avoid terminating
15 the customers' gas service. The remaining customers will
16 continue to receive communications warning them about the
17 possibility of service termination until the customer
18 either grants the Company access to complete the
19 inspection, the Company cuts and caps the existing gas
20 service or, where appropriate and for buildings where the
21 Company has been able to inspect some but not all meters,
22 the Company replevins the relevant gas meter. We intend to
23 resume potential service terminations after the heating
24 season has concluded in March 2022.

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1 Q. What are the inspection requirements after the baseline
2 inspections?

3 A. The general periodic inspection requirement is once per
4 year (not to exceed 15 months) for business district
5 services and once every three years (not to exceed 39
6 months) for non-business districts. In Case 15-G-0244, the
7 Commission authorized a pilot program for Con Edison
8 designed to test whether extended inspection intervals for
9 all service lines of once every five years (not to exceed
10 63 months), combined with conditions such as the
11 installation of AMI-enabled methane detectors at each
12 inspected meter, meets or exceeds existing safety
13 standards.

14 Q. Have there been any other significant regulatory
15 developments as they relate to inspection intervals for gas
16 service lines?

17 A. Yes, on March 21, 2021, PHMSA modified 192.481 to extend
18 onshore service line atmospheric corrosion control
19 inspections to once every five calendar years, not to
20 exceed 63 months. Then on October 25, 2021 in case 19-G-
21 0736 the Commission proposed to modify 255.481 reflecting
22 the PHMSA code modifications. Once the proposed 255.481
23 changes are adopted, all non-business district service line

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1 inspections can be extended to once every five-years, not
2 to exceed 63 months.

3 Q. Based on the foregoing, what is the inspection interval
4 that is assumed for purposes of the Company's forecast?

5 A. The Company's forecast assumes the extension of the
6 inspection cycles for all services to a five-year cycle,
7 not to exceed 63 months starting January 1, 2023.

8 Q. Please describe the Company's Service Line Program O&M
9 request.

10 A. We propose a program change increase of \$39.2 million in
11 RY1, with reductions of \$0.9 million in RY2 and \$1.2
12 million in RY3. This proposed change reflects only a
13 change in the cost recovery mechanism (from surcharge to
14 base rates) and a significant reduction compared to the
15 Company's recent costs for the service line inspection
16 program.

17 Q. What were the Company's historic costs for this program
18 during the current Gas Rate Plan?

19 A. The Company's actual costs under this program were \$29.3
20 million in 2020 and \$68.6 million in 2021 when it began
21 following its revised compliance plan at Staff's direction.

22 Q. Why does the Company believe it can reduce the costs of
23 this program so significantly in RY1?

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1 A. We believe we can achieve these reductions through the
2 anticipated completion of the baseline inspections and the
3 expected corresponding decrease in repairs associated with
4 baseline inspections. The Company also had high rates of
5 access refusal due to customer concerns related to COVID-
6 19.

7 Q. How does the Company recover the costs for this program
8 under the current Gas Rate Plan?

9 A. The current Gas Rate Plan included a relatively small
10 amount in base rates (approximately \$7.0 million in 2020
11 and \$700,000 in each of the subsequent two rate years) for
12 this program. The Plan authorized an MRA surcharge
13 mechanism, which was capped at approximately \$99 million
14 for the term of the three-year Gas Rate Plan.

15 Q. Has the Company gained sufficient experience with this
16 program since its last rate filing to develop a projection
17 of its future costs?

18 A. Yes. As we have explained, the Company has undertaken
19 extensive and comprehensive measures to comply with the
20 Commission's and Staff's additional directives relating to
21 service line inspections and repairs.

22 Q. What is the basis for the Company's estimated expenditures
23 for this program?

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1 A. The Company has approximately 1 million inside building
2 sets, of which an estimated 200,000 inside building sets
3 are in apartments (room sets) or other remote locations
4 that are less readily accessible. As described above, the
5 Company made significant efforts and is continuing to
6 complete the remaining baseline inspections pursuant to its
7 revised compliance plan. Because of the new five-year
8 inspection cycle, inspections will be spread out more
9 evenly throughout the five-year period. We will also
10 attempt to bundle this work with installation of AMI
11 natural gas detectors where feasible. Projected
12 expenditures include all costs associated with the
13 emergency response when a leak is detected, the repair to
14 Company piping from the point of entry to the outlet of the
15 gas meter, labor to perform the inspections and support the
16 customer communication and scheduling. The expenditures
17 enable a minimum of two cold call field attempts, plus
18 additional attempts that may result from customer letters
19 warning of fines and subsequent termination of service.

20 Q. What is the breakdown of the program forecast?

21 A. The \$39.7 million annual forecast for this safety program
22 is divided into the following functions:

23 1. \$18 million annually for field inspections;

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1 2. \$4.2 million annually for non-field support, which
2 includes customer support, scheduling, training and
3 equipment;

4 3. \$6.9 million annually for corrosion repairs and all
5 necessary follow-up surveillance and rechecks after repair
6 inspections;

7 4. \$2.7 million annually for emergency response associated
8 with any leaks identified during the service line
9 inspection; and

10 5. \$7.9 million annually for operating and maintenance
11 costs associated with cutting and capping and/or replevin
12 when a customer fails to provide access after the required
13 attempts, and notifications fail to result in a completed
14 inspection.

15 Q. Is the Company proposing any tariff changes related to the
16 Service Line Inspection program?

17 A. Yes. The Company is proposing to modify the fee structure
18 for customers or access controllers who deny the Company
19 access to the premise to perform the inspection. The
20 proposed change will modify the fee from one-time billed,
21 to a fee assessed in every billing period, until access is
22 provided. The customer will also be responsible for all
23 costs associated with meter seizure/forced access if
24 refusals continue.

1 Additionally, when customers refuse an outdoor meter
2 location while Con Edison is performing work on their
3 service, it perpetuates the need for inside service line
4 inspections. Therefore, the Company is also proposing that
5 the meter relocation refusal fee be increased to cover
6 inside inspection costs that would have otherwise been
7 avoided.

8 Q. Are there any other costs not included in this request?

9 A. Yes. The costs for additional vehicles and associated
10 maintenance are not included. These costs are
11 approximately \$600,000, which we may include as part of our
12 update filing.

13 **B. Bridge Inspections**

14 Q. Please describe the Company's next O&M program change.

15 A. The Company is proposing a reallocation of funding for its
16 Bridge Inspection program. Looking ahead to 2026, we see a
17 much higher number of bridge inspections coming due in a
18 single year than normal. Gas mains at bridges receive a
19 visual inspection every three years and a more costly,
20 detailed inspection (including preventative maintenance)
21 every 21 years. The inspection workload varies, with
22 inspections at 257 locations coming due on a cyclical
23 basis. However, 137 inspections (about 62% above the
24 normal amount) are due in 2026. Planning ahead, we expect

1 that this increase in workload will challenge our ability
2 in 2026 to complete these inspections. Therefore, the
3 Company is proposing to preemptively move 30 detailed
4 inspections, due in 2026, to the rate case years and spread
5 them evenly across 2023, 2024, and 2025.

6 A total of \$1,104,750 for the three years cumulatively
7 needs to be reallocated to cover additional pipe inspection
8 and preventative maintenance proposed for 2023, 2024, and
9 2025. The amount will be evenly distributed across the
10 three years. Further details of this program change can be
11 found in the associated white paper.

12 **C. High Emissions Survey**

13 Q. Please describe the next O&M change.

14 A. The Company has designed a program to identify and target
15 the highest emitting natural gas leaks, which are currently
16 defined as leaks emitting greater than 10 standard cubic
17 feet per hour. To conduct the survey, we attach advanced
18 leak detection technology to a passenger vehicle and drive
19 multiple passes over the course of two to three nights down
20 the same street, according to the manufacturer's
21 recommendation. Currently, the Company is utilizing the
22 Picarro Surveyor device for this survey. Once all passes
23 are completed, data is downloaded and analyzed. This
24 survey complements our current leak survey programs by

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1 covering one-third of the of the distribution system that
2 has not recently been covered by the walking compliance
3 survey.

4 Q. Once identified, how will the Company eliminate fugitive
5 emissions?

6 A. The Company has a performance metric to repair gas leaks
7 within 60 days, 85% of the time. On average, all leak
8 types are repaired within 30 days or less, far exceeding
9 code requirements. Once a high emitter is identified, the
10 Company will maintain these high standards by repairing the
11 known leak and eliminating the emissions.

12 Q. What benefits does this program provide?

13 A. By targeting leaks with the highest emissions and running
14 the program as a complement to other existing leak survey
15 programs, we are able to focus on eliminating fugitive
16 methane emissions efficiently. Due to its propriety
17 algorithms, the advanced leak detection system can detect
18 methane leaks farther from the source, and it is the only
19 leak detection equipment able to quantify the emissions
20 rating. This program also supports the future rulemakings
21 PHMSA will implement as required by the PIPES Act. The
22 PIPES Act calls for rules to be promulgated for the use of
23 advanced leak detection technologies on new and existing
24 gas distribution pipeline facilities. In a recent industry

1 presentation, PHMSA announced that it anticipates a notice
2 of proposed rulemaking on this subject in 2022.

3 Q. Please provide the projected expenditures, and how the
4 Company developed its projection.

5 A. We currently anticipate the following O&M expenditures for
6 this new program: \$499,000 per year, in each of RY1, RY2
7 and RY3. This cost was estimated based on the mileage per
8 year needed to be surveyed, number of required passes per
9 manufacturer's recommendation, and experience utilizing the
10 equipment to know how many miles could be covered each day.
11 Labor rates were then used to determine staffing increases.

12 **D. Capital Projects Software Changes**

13 Q. What is the final O&M change being proposed?

14 A. The Company, as described in more detail throughout this
15 testimony and in the associated White Papers, is making
16 capital investments, which includes the development and/or
17 implementation of software technology. Licensing fees
18 associated with software usage have an O&M expense and are
19 therefore presented here.

20 Q. Which capital investments include such O&M expenses?

21 A. The following investments include an O&M component:

- 22 • The Gas Outage Management System: As described further
23 in the associated white paper, this brand-new software

1 solution will require ongoing licensing fee O&M
2 expenses of \$140,000 per year, starting in RY3.

3 • The Gas Control Operator Training System Simulator: As
4 described further in the associated white paper, this
5 new software solution will require ongoing licensing
6 fee O&M expenses of \$60,000 per year, starting in RY2.

7 **V. DEFERRAL ACCOUNTING/SURCHARGES**

8 **A. Pipeline Safety Act**

9 Q. Please describe the Pipeline Safety Act of 2011 ("PSA") and
10 its requirements.

11 A. The PSA was signed into law in January 2012. The PSA
12 authorizes and directs the United States Department of
13 Transportation ("DOT") to perform studies and adopt rules
14 intended to enhance gas pipeline safety.

15 Q. Please explain the status of PSA implementation.

16 A. To date, PHMSA has completed 40 of the 42 mandates and a
17 number of non-mandated actions, leaving certain significant
18 issues still pending. These pending issues include rules
19 on the use of automatic and remote-controlled shutoff
20 valves and expansion of the transmission integrity
21 management program requirements.

22 Q. Please identify the continuing uncertainties associated
23 with PSA requirements.

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1 A. Although PHMSA has published Notice of Proposed Rulemakings
2 ("NPRM") on certain aspects of the PSA, those were met with
3 a large amount of public comment. Additionally, the Gas
4 Pipeline Advisory Committee ("GPAC") has also modified and
5 voted on these proposed rules. As a result, there are a
6 number of uncertainties regarding the pending PSA
7 regulations that could have a significant impact on the
8 Company's costs. These include the following related to
9 transmission mains: expansion of the existing integrity
10 management requirements; new material verification
11 requirements; new risk modeling requirements; and the
12 required use of automatic or remote-controlled shut-off
13 valves. As such, the Company proposes to continue the
14 reconciliation for any costs related to compliance through
15 a surcharge. As further explained below, the costs to
16 comply remain uncertain.

17 Q. Has PHMSA taken any action to complete the remaining
18 mandates?

19 A. To date, TIMP requirements and MAOP verification have been
20 proposed by PHMSA through the NPRM "Pipeline Safety: Safety
21 of Gas Transmission and Gathering Lines", Docket PHMSA-
22 2011-5 0023. The NPRM was released in 2016, and GPAC
23 meeting concluded in 2017, yet all parts of the final
24 rule(s) have yet to be published. To date, only part one

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1 has been released, leaving two parts outstanding. It
2 remains uncertain whether PHMSA will address the
3 industry/public comments that they received and how they
4 will modify the rulemaking, based on the GPAC comments and
5 voting.

6 Q. Why is it reasonable to reconcile costs related to
7 compliance with the PSA through a surcharge?

8 A. As described above, there are a number of uncertainties
9 associated with pending DOT regulations enacted in response
10 to the mandates in the PSA. Some of the uncertainties are
11 directly related to the requirements that DOT may include
12 in these new regulations, which are unknown at this time.
13 Other uncertainties (and their related costs) are dependent
14 on the regulations the DOT ultimately adopts.

15 Q. Can the Company provide an estimate of the costs of these
16 pending regulations?

17 A. No, the Company does not have a basis to include an
18 estimate. The uncertainties of these pending regulations,
19 including the timeframe of enactment, make it too difficult
20 to develop a cost estimate for the Rate Years.

21 Q. Why is the Company proposing a surcharge?

22 A. The Company believes it makes more sense to use a surcharge
23 to avoid a potential large deferral build-up prior to the
24 next rate case filing. The surcharge mechanics are

1 described in the Gas Rates Panel testimony.

2 **B. PIPES Act**

3 Q. Please describe the new regulations that may be enacted by
4 the United States DOT in response to the PIPES Act of 2020?

5 A. The PIPES Act of 2020 authorizes and directs the DOT to
6 perform studies and adopt rules intended to enhance gas
7 pipeline safety, as well as ties environmental safety to
8 pipeline and public safety.

9 Q. What, if any, uncertainty exists with respect to the
10 regulations that may be promulgated under the PIPES Act and
11 their impact on Company operations?

12 A. As this Act is relatively recent, PHMSA has yet to propose
13 any rulemakings to implement its directives. Without
14 seeing the proposed rulemakings, significant uncertainty
15 exists as to whether such new or modified rulemakings will
16 have an impact on the Company's operations or investments.

17 Q. What is the anticipated timing of the PHMSA rulemaking
18 associated with the PIPES Act?

19 A. Although no notices of proposed rulemaking have been
20 released, the PIPES Act provides timeframes for each
21 directive to PHMSA. These timeframes vary based on the
22 topic within the Act; however, it is reasonable to expect
23 that some associated rulemakings will be enacted during the
24 rate years. During a recent industry presentation, PHMSA

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1 forecasted that Notice of Proposed Rulemakings ("NPRMs")
2 should be expected as follows:

- 3 • Leak Detection NPRM in 2022
- 4 • Safety of Gas Distribution NPRM in 2022
- 5 • Pipeline Operational Status NPRM in 2023

6 Q. Why is it reasonable to reconcile the costs related to
7 compliance with the PIPES Act through a surcharge?

8 A. As described above, there currently is uncertainty
9 associated with pending DOT regulations enacted in response
10 to the mandates in the PIPES Act. Some of the
11 uncertainties are directly related to the requirements that
12 DOT may include in these new regulations, which are unknown
13 at this time. Other uncertainties (and their related
14 costs) are dependent on the regulations the DOT ultimately
15 adopts.

16 Q. Can the Company provide an estimate of the costs of these
17 pending regulations?

18 A. No, the Company does not have a basis to include an
19 estimate. The uncertainties of these pending regulations,
20 including the timeframe of enactment, make it too difficult
21 to develop a cost estimate for the Rate Years.

22 Q. Why is the Company proposing a surcharge?

23 A. The Company believes it makes more sense to use a surcharge

1 to avoid a potential large deferral build-up prior to the
2 next rate case filing. The surcharge mechanics are
3 described in the Gas Rates Panel testimony.

4 **C. NY Operator Qualification Rulemaking**

5 Q. Why does uncertainty exist with respect to new regulations
6 that may be enacted by the Commission related to the
7 Operator Qualification ("OQ") notice of proposed
8 rulemaking?

9 A. On December 17, 2021, the Company and other utilities and
10 industry groups provided comments on the proposed OQ rule.
11 Many of Con Edison's comments sought clarity from the
12 Commission on regulatory language, which may affect the new
13 investments necessary to comply with a final rule. Until
14 the final rule is adopted, the Company cannot anticipate
15 what investments will be necessary to present for recovery.

16 Q. What sections of the proposed regulation has the Company
17 identified as areas with potential cost implications for
18 the Company's operations?

19 A. The following topics within the proposed rule may result in
20 the need for further investment, depending on the final
21 rule:

- 22 • Time restrictions prior to evaluations;
- 23 • Span of control records;

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- 1 • Training records associated with qualification
- 2 records;
- 3 • Automatic failure from abnormal operating condition
- 4 questions; and
- 5 • Program effectiveness.

6 Q. What is the anticipated timing of the OQ final rule?

7 A. As comments have already been submitted, Con Edison
8 anticipates a final rule to be released sometime in mid-
9 2022; therefore, any associated investments may not able to
10 be included in this case.

11 Q. Why is reconciliation through a surcharge reasonable for
12 such costs?

13 A. As described above, there currently is uncertainty
14 associated with the pending OQ rule. Some of the
15 uncertainties are directly related to the requirements that
16 the Commission may include in these new regulations, which
17 are unknown at this time. Other uncertainties (and their
18 related costs) are dependent on the regulations the
19 Commission ultimately adopts.

20 Q. Can the Company provide an estimate of the costs of these
21 pending regulations?

22 A. No, the Company does not have a basis to include an
23 estimate. The uncertainties of these pending regulations,

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1 including the timeframe of enactment, make it too difficult
2 to develop a cost estimate for the Rate Years, at this
3 time.

4 Q Why is the Company proposing a surcharge?

5 A. The Company believes it makes more sense to use a surcharge
6 to avoid a potential large deferral build-up prior to the
7 next rate case filing. The surcharge mechanics are
8 described in the Gas Rates Panel testimony.

9 **VI. PERFORMANCE MEASURES**

10 **A. Gas Performance Measures**

11 Q. Is the Company proposing any changes to the existing Gas
12 Performance Measures, which are set forth in Appendix 17 of
13 the Joint Proposal adopted by the Commission in its January
14 16, 2020 rate order?

15 A. The Company proposes to continue most of the major elements
16 associated with current Gas Performance Measures. We are
17 proposing modifications to some of the targets and negative
18 revenue adjustments, as discussed in more detail below.

19 Q. Are any of the Company's proposed changes similar to changes
20 that have been approved in other Commission-approved
21 utility rate plans or rate plans that are pending approval?

22 A. Yes, many of the changes the Company is proposing are
23 consistent with recent trends of increased positive
24 incentives in other utility rate plans that have been

1 approved or are pending approval. However, the Company
2 recognizes that each utility rate plan should be viewed in
3 total and that individual elements of an overall settlement
4 agreement should not be evaluated in isolation.

5 Q. How should NRAs be applied?

6 A. The Company proposes that any NRAs it incurs should be
7 applied to fund incremental gas safety programs to be
8 developed at the Company's direction, in consultation with
9 Staff.

10 Q. Which specific Gas Performance Measures does the Company
11 propose to modify?

12 A. The Company is proposing to modify the following performance
13 measures, established under its current Gas Rate Plan: Gas
14 Main Replacement, Leak Management, and Gas Regulations
15 Performance Measure.

16 **1. Gas Main Replacement**

17 Q. Please describe the Company's proposed changes to the Gas
18 Main Replacement Program Safety Performance Measure.

19 A. As discussed earlier under the Main Replacement Program, the
20 Company is proposing a slight reduction from the prior rate
21 case main replacement target of 90 miles to 85 miles per
22 year for each rate year, for a total of 255 miles of leak
23 prone pipe over the three-year period 2023 through 2025.

2. Leak Management

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Q. What is the Company's proposed change to the Leak Management Performance Measure?

A. As set forth in the current Gas Rate Plan, the Company receives a positive revenue adjustment, up to an annual maximum of four basis points, for reducing the leak backlog below the associated annual targets. The Company would maintain the 2022 year-end total leak backlog target of 200, for each rate year. However, the Company is proposing an increase to the positive revenue adjustment basis points.

Q. What positive revenue adjustment changes are the Company proposing?

A. The positive revenue adjustment would be awarded as follows:

Total Leak Backlog:	Prior Rate Case Positive Basis Points:	Proposed Positive Basis Point:
76-100	1 BP	2 BP
26-75	2 BP	4 BP
<=25	4 BP	6 BP

Q. Why does the Company believe such positive revenue adjustment increases are appropriate?

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- 1 A. In order to achieve such low total leak backlog targets,
2 the Company must expend a significant level of resources.
3 The cost of deploying such resources currently exceeds the
4 value of the positive revenue adjustment ("PRA").
5 Therefore, the Company is proposing a PRA structure that is
6 more in line with the costs associated with achieving such
7 goals.
- 8 Q. Are there benefits to customers and other stakeholders
9 associated with the gas main replacement and leak management
10 positive incentives?
- 11 A. Yes. Eliminating 12-inch and smaller cast iron, wrought
12 iron, and unprotected steel above the established targets
13 will enhance safety and reduce emissions.
- 14 Q. Is the Company proposing any modifications to the current
15 Joint Proposal language regarding the calculation of the
16 final leak backlog count?
- 17 A. Yes. The Company believes additional clarity is needed
18 regarding leaks being added back into the final leak
19 backlog.
- 20 Q. Why is the Company proposing additional language around
21 leaks being added back into the final leak backlog?
- 22 A. In 2021, there was a disagreement regarding the meaning of
23 "successful elimination" of leaks and how type 3 leaks are
24 successfully eliminated.

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1 Q. What is Con Edison's position on how a type 3 leak is
2 successfully eliminated?

3 A. Type 3 leaks do not require follow up inspections by State
4 code or Company specification and, therefore, the
5 successful elimination of a type 3 leak is the action of
6 repairing said leak and confirming (at the time of the
7 repair) that there are no gas readings.

8 Q. What additional language is needed to clarify what is meant
9 by "successful elimination?"

10 A. The language in any potential joint proposal or rate plan
11 in this proceeding should be specific that successfully
12 eliminated leaks are defined as both: 1.) leaks that have
13 been repaired that do not require follow up by code or
14 Company specification; and 2.) leaks that do require follow
15 up by code and specification which have successfully passed
16 the follow-up inspection.

17 Q. Is the Company proposing to continue the SRSM to recover
18 incremental O&M expenses associated with lowering the
19 Company's leak backlog below the target established for the
20 Leak Backlog performance measure?

21 A. Yes, the Company proposes to continue the SRSM for the Leak
22 Backlog performance measure.

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1 received for reasons beyond the Company's control. There
2 is a general recognition that, under such circumstances, it
3 would be unreasonable to expect the Company to meet the
4 targets that apply under normal conditions. Put another
5 way, the Company should not be punished for failing to meet
6 targets that are unrealistic due to rare and extreme
7 conditions that arise for reasons beyond the Company's
8 control. This general understanding of the purpose of the
9 exclusion should inform how it is implemented.

10 As a result of Hurricane Ida, the Company sought to invoke
11 this exemption for odor calls and leaks that arose due to
12 the hurricane and which were beyond the Company's control.
13 The Company experienced an increase in odor call volumes of
14 over 400%. There was a disagreement regarding whether this
15 exclusion should apply only to leaks that could directly be
16 attributable to the storm (an identification and
17 attribution process which would be impossible to validate).
18 The Company believes this exemption applies to all odor
19 calls that occurred during the hurricane, since the entire
20 weather-event was out of the Company's control.

21 Q. How is the Company proposing to modify the exclusion
22 language?

23 A. The Company proposes the following:

24 "The Company may seek the following exclusion to operating

1 performance under this measure: All odor calls associated
2 with mass area odor complaints, major weather-related
3 occurrences, and major equipment failure. Con Edison shall
4 provide notification..."

5 **4. Gas Regulations Performance Measure**

6 Q. What modifications is the Company proposing to the Gas
7 Regulations Performance Measure?

8 A. The Company is proposing the following modifications to
9 this metric:

- 10 • Change in the NRA calculation;
- 11 • Establish audit protocols;
- 12 • Eliminate NRA for violations that were previously
13 identified in a quality control/assessment process
14 and rectified prior to an audit; and
- 15 • Eliminate NRA for violations that were self-reported
16 and not subject to reporting requirements.

17 Q. Please describe the Company's first modification.

18 A. The Company is proposing to change the NRA calculation for
19 violations identified in Records and Field Audits.

20 Q. How does the Company propose to calculate the NRAs for
21 Records and Field Audit Violations?

22 A. Records Audit Operations

23 High Risk: 6-20 (1/2 BP); 21+ (1BP)

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1 Other Risk: >15 (1/4 BP)

2 Records Audit Central

3 High Risk: 10-25 (1/2 BP); 26+ (1BP)

4 Other Risk: >15 (1/4 BP)

5 Field Audit

6 High Risk: 6-20 (1/2 BP); 21+ (1BP)

7 Other Risk: >15 (1/4 BP)

8 Q. What is the basis for separating the Central category and
9 excluding that categories' first 10 audit high risk items
10 and 15 other risk items in the records audit?

11 A. During the 2021 PSC Records Audit of 2020 Records, Staff
12 changed the audit protocols for Central Records by sampling
13 by borough, instead of the Central group as a whole, which
14 resulted in quadruple the number of records and field
15 inspections than had been historically sampled, in the
16 Central categories. Con Edison has a Central Operations
17 organization which singularly performs this work, and
18 therefore, DPS Staff's historical practice of treating this
19 group similar to an operational borough (*i.e.*, sampling
20 protocols in place prior to 2021) was appropriate.

21 Additionally, these changes were not negotiated for Rate
22 Years 2020-2022 nor were they established in the current
23 Gas Rate Plan. If this is the audit protocol going
24 forward, the Company is requesting a separation of this

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1 category with the proposed dead band, in order to establish
2 appropriate targets that reflect the audit protocol
3 changes. Con Edison has shown a consistent downward trend
4 in our Records and Field audit violations since this metric
5 was put into place, and we will strive to continue this
6 decline in violations.

7 Q. What is the basis for proposing a dead band for Field Audit
8 findings?

9 A. Since the current rate case's negotiations, DPS Staff has
10 greatly increased its field presence overall, and
11 therefore, increased the number of field audits in the
12 process.

13 Additionally, and as discussed above, in 2021 DPS Staff
14 modified its sampling practices related to the Central
15 group. This change occurred in the field audit as well,
16 which resulted in quadruple the number of field inspections
17 than had been historically sampled, in the Central
18 categories. These changes were not negotiated for Rate
19 Years 2020-2022 nor were they established in the Gas Rate
20 Plan. Therefore, the Company is requesting a dead band of
21 5 high risk and 15 other risk Field Audit findings, in
22 order to establish appropriate targets that reflect the
23 audit protocol changes.

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1 Q. Please describe the Company's next proposed modification to
2 the Gas Regulations Performance Measure.

3 A. The next proposed modification would establish more
4 consistency around audit sampling. In the context of
5 annual field and record audits, where violations carry
6 significant NRA implications and are reported in the annual
7 Performance Measurement Report, it is imperative that
8 consistent sampling and audit protocols be established.
9 There is currently no documented methodology or protocols
10 explaining how Staff develops samples and/or audits a LDC's
11 records. As stated in the prior two answers, Staff has
12 modified sampling protocols outside of rate case
13 negotiations, which has greatly increased the number of
14 audited items for both the Records and Field audit. To
15 address this issue, the Company is requesting that the
16 Commission direct Staff, in consultation with New York
17 State LDCs, to establish a documented sampling and audit
18 protocol to promote greater consistency.

19 Q. What is the Company's next proposed modification related to
20 the Gas Regulations Performance Measure?

21 A. The Company is proposing the elimination of NRA for
22 violations resulting from self-reported events not subject
23 to reporting requirements, as long as the Company takes
24 immediate corrective action to resolve said issue. To

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1 promote transparency and cooperation, the Company has self-
2 reported issues or incidents to Staff, which do not meet
3 current regulatory reporting requirements. These self-
4 reported events should not be subject to NRA, because the
5 Company should not be penalized for going above and beyond
6 its reporting requirements.

7 Q. What is the Company's next proposed modification related to
8 the Gas Regulations Performance Measure?

9 A. The Company is proposing the elimination of any NRA
10 penalties associated with violations that were previously
11 identified by internal quality control processes and
12 rectified prior to identification in a PSC audit. The
13 Company puts considerable effort into identifying and
14 rectifying compliance or quality issues; therefore, it not
15 reasonable for the rate plan to establish disincentive for
16 a violation that has already been identified and rectified
17 by the Company. Indeed, it is contrary to governmental
18 policy regarding compliance, which is to encourage
19 disclosure and correction.

20 **VII. GAS SUPPLY**

21 **A. Capacity and Supply Portfolio**

22 Q. Please describe the nature of the Companies' gas supply
23 portfolio.

24 A. The Company manages a joint gas supply and capacity

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1 portfolio ("joint portfolio") with (Orange and Rockland
2 Utilities, Inc. ("O&R") that allows for the joint
3 utilization of both Companies' gas supply and interstate
4 pipeline capacity contracts, including storage. The joint
5 portfolio is operated for the benefit of the firm gas
6 customers of both Con Edison and O&R (the "Companies").
7 The contracts that the Companies' have entered into are
8 listed in Schedules 1, 2, 3, and 4 of Exhibit___(GIOSP-3).

9 Q. Please describe the objective of the Companies' long-term
10 gas supply plan.

11 A. The Company evaluates supply and capacity requirements over
12 a ten-year planning horizon and integrates and extends this
13 over a 20-year planning horizon to determine the plan to
14 meet the needs of its firm gas customers. While the
15 Company plans only for its firm customers, it is cognizant
16 of needs of its non-firm customers and of electric
17 customers. The Companies have also adopted the objective
18 of decreasing the emissions associated with the gas flowing
19 through the system, through the purchase of certified gas
20 and the interconnection of RNG facilities.

21 Q. Please describe the objective of the Companies' gas
22 purchasing and hedging programs.

23 A. The Company's objective is to obtain reliable, diverse,
24 lower emission, and reasonably-priced gas supply in order

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1 to: (i) meet the design winter requirements of its firm gas
2 customers, (ii) minimize costs to its firm customers, (iii)
3 reduce price volatility, (iv) react to changing weather
4 conditions, (v) to the extent possible, maintain service
5 during a contingency event affecting a major pipeline or
6 supply basin and (vi) reduce the emissions associated with
7 the gas it purchases.

8 Q. How do the Companies seek to maintain reliability of
9 supply?

10 A. One of the cornerstones of a reliable gas portfolio is
11 diversity. The Companies' joint gas supply and capacity
12 portfolio includes contracted supplies from the Marcellus
13 Shale in the Northeast, the Gulf Coast, and Canada, from
14 suppliers on multiple pipelines, as set forth in
15 Exhibit___(GIOSP-3), Schedule 1, Gas Supply Contracts. The
16 Companies also have firm pipeline capacity contracts with
17 various interstate pipeline transportation companies, as
18 set forth in Exhibit___(GIOSP-3), Schedule 2, Pipeline
19 Transportation Contracts, which provide access to diverse
20 sources of supply. In addition, the Companies have a
21 number of contracts for underground storage, which are
22 listed in Exhibit___(GIOSP-3), Schedule 3, Storage
23 Contracts, an LNG peaking facility, whose deliverability is
24 set forth on Exhibit___(GIOSP-3), Schedule 4, baseload and

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1 peaking delivered service, as set forth in Exhibit (GIOSP-
2 3), Schedule 2, and has contracted for CNG peaking
3 deliveries, whose deliverability is set forth on
4 Exhibit___(GIOSP-3), Schedule 4.

5 Q. What are design weather conditions?

6 A. The peak day demand represents the quantity of gas that
7 firm customers would require in a twenty-four hour period
8 of a gas day, which starts at 10:00 am, at a Temperature
9 Variable of zero degrees Fahrenheit. The Temperature
10 Variable is defined as the sum of 70 percent of the
11 projected gas day average temperature plus 30 percent of
12 the prior gas day average temperature, which provides the
13 best correlation with firm customer demand.

14 Exhibit___(GIOSP-3), Schedule 5, Forecasted Requirements -
15 Peak Day, shows the forecast of Con Edison's and O&R's firm
16 customers' peak day demand for each winter period (*i.e.*,
17 November through March) beginning with the winter of
18 2019/2020 through winter 2021/2022. The Companies also
19 calculate the gas requirements for meeting demand over the
20 course of a winter under severe weather conditions (a
21 "design winter") in order to establish storage and
22 Delivered Services amounts needed to meet potential
23 customer demand.

24 Q. Please explain how the Companies' contracts enable them to

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1 meet these design weather conditions.

2 A. The Companies meet peak day demand in four ways. First,
3 the Companies rely on the delivery of firm supply through
4 their firm interstate pipeline transportation and firm
5 storage contracts, which are listed in Exhibit___(GIOSP-3),
6 Schedules 2 and 3. Second, the Companies maintain
7 contracts for Delivered Services. Historically, these have
8 primarily been firm peaking supplies that give the option
9 to purchase gas for a pre-determined number of days during
10 the winter (typically 15, 30, or 60 days) and pay the daily
11 citygate index price for the gas on those days. The
12 Companies' also have base delivered supply contracts in
13 addition to peaking supplies. Base delivered supplies are
14 a commitment to procure gas at the citygate for a set
15 winter term (typically December through February or
16 November through March) and are priced at a NYMEX index
17 price plus a fixed basis. These contracts for Delivered
18 Services, which are listed in Exhibit___(GIOSP-3), Schedule
19 2, contribute to the Companies' ability to meet peak load.
20 Third, Con Edison vaporizes gas from its LNG facility to
21 meet peak day demand. Fourth, Con Edison can call upon its
22 contracted CNG facility to meet peak day demand.

23 Q. What do you mean by "Delivered Services?"

24 A. Delivered Services are gas supplies procured at the

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1 citygate from third party suppliers that have primary firm
2 capacity to the citygate.

3 Q. What risks does a high level of Delivered Services
4 introduce to the Gas Supply portfolio?

5 A. The Company has identified three risks: re-contracting,
6 availability, and price volatility.

7 Q. Please explain these risks.

8 A. Unlike the Company's contractual rights for pipeline
9 capacity, there is no regulatory renewal right for
10 Delivered Services and, therefore, no certainty that the
11 Company can continue to rely on the same Delivered Service
12 supply contract year-to-year, to reliably meet customer
13 heating needs.

14 Second, with the pipeline capacity coming into the Con
15 Edison service territory being fully contracted and new
16 pipeline projects facing increased difficulty in securing
17 necessary permits, the future availability of Delivered
18 Services required to meet our forecasted peak demand is
19 uncertain because shippers who hold this capacity can
20 market it to persons outside of the service territory.

21 Third, the increased reliance on Delivered Services in the
22 portfolio results in higher gas price volatility and
23 potentially increased costs for our customers. Instead of
24 buying gas at low price volatility production area receipt

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1 points and transporting it on pipeline capacity to our
2 service territories, the Companies must purchase at New
3 York area citygates where prices are subject to significant
4 volatility during high demand periods.

5 Q. What actions have the Companies taken to reduce their
6 reliance on Delivered Services?

7 A. The Companies actively seek to acquire firm transportation
8 capacity to the New York area citygates as it becomes
9 available from other shippers through permanent capacity
10 release transactions or by contracting directly with
11 pipelines once the capacity has been turned back by the
12 existing shipper. The Companies have also acquired
13 capacity released through Asset Management Agreements
14 ("AMA") with third party capacity holders in addition to
15 traditional capacity release agreements. The Companies
16 will pay a fee in exchange for capacity with a supply
17 component from the third party.

18 Q. Have there been changes to the Companies' supply and
19 capacity portfolio over the last three years?

20 A. Yes. The Companies have recently entered into new
21 agreements and elected not to renew certain agreements.

22 Q. Please describe the recent agreements the Companies have
23 entered.

24 A. As discussed in further detail below, the Companies are

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1 diversifying their Delivered Services portfolio. The
2 Companies have entered Delivered Services contracts with up
3 to two or three-year durations to meet firm gas customers'
4 current and future peak day requirements. These contracts
5 give the Companies the right to call upon the supplier and
6 purchase daily-priced gas for a maximum of 30 or 60 days
7 during the winter season. As previously discussed, these
8 Delivered Services contracts provide needed supply to our
9 gas system to supplement pipeline capacity under contract
10 by our suppliers.

11 The Companies have new contracts for additional
12 deliverability to our citygates: four with Texas Eastern
13 for 147,500 Dt/ of pipeline capacity which delivers to
14 Lower Manhattan.

15 Beginning in 2020, the Companies have also subscribed to
16 pipeline capacity through Asset Management Arrangements,
17 specifically a total of 80,000 Dt/d delivery on Transco
18 Pipeline to Manhattan and 15,500 (increases to 40,000 Dt/d
19 in November 2023) on Tennessee pipeline to Westchester.

20 Q. How do the Companies evaluate whether to renew an expiring
21 contract?

22 A. The Companies evaluate the capacity portfolio. If an
23 expiring contract is still required to serve firm customers
24 or manage system operations, the Companies assess the

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1 market to determine if there are more economic alternatives
2 available that provide at least the same degree of
3 reliability and flexibility. If not, the Companies will
4 renew the contracts by exercising their rights pursuant to
5 existing interstate pipeline tariff Right of First Refusal
6 ("ROFR") provisions or other applicable contract
7 provisions.

8 Q. Have the Companies elected not to renew certain expiring
9 contracts?

10 A. Over the past three years, the Companies elected not to
11 renew some of their firm transportation contracts with
12 National Fuel.

13 Q. Why did the Company elect not to renew these contracts?

14 A. The increase in supply available from the Northeast
15 Marcellus and Utica shale regions has affected how the
16 Companies evaluate certain contracts. Historically, the
17 Companies seek to access receipt points where gas can be
18 purchased from multiple sellers, which are often referred
19 to as a "liquid supply points." To accomplish this, the
20 Company has historically entered contracts that formed
21 paths accessing the Gulf, Canada, or a storage field. Some
22 of these paths include multiple contracts such as one
23 upstream pipeline with access to a liquid supply point,
24 connected with one downstream pipeline with access to NYC.

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1 With the increased gas available in the Northeast, liquid
2 supply points that previously did not exist have formed on
3 the downstream pipelines.

4 The firm transportation contracts with National Fuel were
5 upstream transportation contracts that were needed to reach
6 a liquid supply point. Since liquid supply points are now
7 available on their downstream counterpart along the same
8 path, the Companies no longer need to purchase firm
9 transportation rights on this upstream pipeline.

10 Q. Do you anticipate any future changes to the capacity
11 portfolio?

12 A. Yes. As described in our testimony in Case 19-G-0066, the
13 Companies have subscribed to pipeline capacity on Mountain
14 Valley Pipeline ("MVP") which is scheduled to be in service
15 as early as 2022. The Companies have also subscribed to
16 pipeline capacity on Iroquois pipeline for 62,500 Dt/d of
17 capacity for deliveries from Waddington, NY to New York
18 City, NY and on Tennessee pipeline for 115,000 Dt/d of
19 capacity for deliveries from Pennsylvania to Westchester,
20 NY. The estimated in-service date of the Iroquois pipeline
21 is winter 2023 and while Tennessee pipeline has indicated
22 an estimated in-service date of winter 2022, due to the
23 high risk associated with that aggressive schedule, the
24 Companies continue to plan for an in-service of winter

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1 2023.

2 Q. What is the current/updated status of the anticipated
3 future pipeline projects?

4 A. MVP was originally planned to be in service in 2018 and has
5 now been delayed such that the earliest it will be in
6 service is November 2022. In Case 19-G-0066, the Companies
7 had also described a project, Penn East Pipeline, for
8 100,000 Dt/d. The pipeline company has permanently
9 terminated that project.

10 The estimated in-service date of the project on Iroquois
11 Pipeline has not changed since inception. The estimated
12 in-service date of the project on Tennessee Pipeline has
13 also not changed. The Tennessee project will allow Con
14 Edison to lift its moratorium in Westchester, but we
15 continue to plan for an in-service date of no earlier than
16 winter 2023.

17 Q. Have there been any changes to the Companies' supply
18 portfolio?

19 A. Yes. As illustrated in Exhibit__(GIOSP-3), certain of the
20 Companies' gas supply contracts expire each year. Existing
21 contracts may be renegotiated or replaced through
22 competitive bidding or RFPs.

23 In the past, the gas supply contracts required to fill open
24 firm transportation capacity typically had one, three, or

1 five-year terms. The Companies' purchasing strategy has
2 changed in recent years. Upstream supplies have generally
3 been limited to one year or less, whereas for Delivered
4 Services or peaking supplies, the Company will look to
5 procure up to three years or more based on availability.
6 The Companies have entered multi-year upstream supply
7 purchase deals for a small portion of their supply in order
8 to capture some of the current market differentials and
9 will continue to do so when market conditions support it.
10 The Companies re-evaluate their purchasing strategy and
11 make changes as circumstances dictate. Exhibit___(GIOSP-
12 3), Schedule 1, lists all gas supply contracts effective
13 winter 2021/22.

14 **B. Price Volatility Reduction**

15 Q. What efforts have the Companies undertaken to reduce the
16 volatility of delivered services?

17 A. To address the price volatility risk, the Companies have
18 begun diversifying the type of Delivered Services procured
19 by adding base delivered services to the portfolio. These
20 products are priced at a fixed basis for the term plus the
21 NYMEX settle for the month and are intended to reduce the
22 impact of citygate commodity-priced peaking supplies on the
23 total portfolio during periods of high volatility. On

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1 October 22, 2018, the Commission approved the Company's
2 request to include the costs of the new base delivered
3 services as part of its DDS program (Case 18-G-0393).

4 Q. Please describe the procurement strategies the Companies
5 employ in the wholesale market to minimize gas costs.

6 A. The Companies use many procurement strategies to minimize
7 gas costs. For procurement of supply in liquid markets,
8 such as production area receipt points, we use a
9 competitive bidding process through Requests for Proposals
10 ("RFPs") and by participating in on-line reverse auctions.
11 In illiquid markets, such as Delivered Services procured at
12 certain of our service area citygates, the Companies will
13 at times engage in direct negotiation with the third
14 parties capable of meeting the supply requirement.

15 Q. Please describe the Companies' gas hedging program.

16 A. The Companies' hedging program is designed to reduce gas
17 price volatility. One of the hedging program's components
18 is the Monthly Plan, which dictates the use of various
19 financial instruments to hedge natural gas prices for part
20 of the gas supply necessary to meet the monthly
21 requirements of firm sales customers. The program provides
22 for the Companies to hedge a predetermined quantity of
23 their forecasted sales using financial price hedges for the
24 winter period.

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1 Q. Are there other efforts to reduce costs?

2 A. Yes. The dynamic nature of the wholesale gas market, since
3 the advent of shale-based production, has created new
4 opportunities for the Companies to purchase more economic
5 natural gas at alternative receipt points along the path of
6 its interstate pipeline capacity. As new production and
7 upstream pipeline capacity go into service the Companies
8 are frequently assessing and modifying their purchasing
9 strategy for the resulting changes in pricing dynamics. In
10 addition, the Companies seek to optimize their joint
11 portfolio primarily through capacity releases, AMAs, and
12 off-system bundled sales.

13 Q. Please provide an illustration of the historical benefits
14 from the Companies' portfolio optimization efforts.

15 A. Exhibit___(GIOSP-3), Schedule 6, Non-Traditional Revenues,
16 illustrates annual benefits received over the past five
17 years from the Companies' portfolio optimization efforts to
18 minimize overall costs to their firm gas customers.

19 Q. How are portfolio optimization benefits derived?

20 A. The expected benefits are derived when available capacity,
21 not used to serve the Companies' customer requirements or
22 balancing needs, is offered to the market through capacity
23 releases, off-system sales, or AMAs that together are
24 referred to as "discretionary capacity releases."

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1 Q. What changes do you see for revenue from discretionary
2 capacity releases?

3 A. We expect the revenue from discretionary capacity releases
4 to decrease. First, because more existing capacity will be
5 needed to serve firm customers more often, projected near
6 term load growth, and therefore will be unavailable for
7 release during times of higher market value. Second, the
8 market value of some capacity has decreased because of
9 recent pipeline buildouts from the Marcellus region (e.g.,
10 Atlantic Sunrise, Rover) that have increased the capacity
11 price in that region. This price increase decreases
12 pricing differentials with other regions and decreases the
13 value of released capacity.

14 **C. Marginal Cost Study**

15 Q. Please address the marginal cost study with respect to gas
16 supply costs.

17 A. Supply-side marginal costs are the costs of procuring and
18 transporting an additional unit of gas to the Companies'
19 distribution systems. Fixed costs of existing resources
20 are not considered because they do not vary with additional
21 usage and because the Companies cannot avoid paying them.
22 The marginal costs projected for the 2022-2025 period
23 average \$4.06/dt for the year, \$6.95/dt for the winter

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1 period and \$13.46/dt for a peak day.

2 Q. Please define the marginal commodity cost.

3 A. Marginal commodity cost is the cost of an incremental
4 purchase of gas required to meet system demand that exceeds
5 committed supply sources and planned supply additions.

6 Q. Please explain the development of the marginal commodity
7 cost.

8 A. Exhibit___(GIOSP-3), Schedule 8, Summer Season
9 Supply/Demand Balance and Schedule 9, Winter Season
10 Supply/Demand Balance, compare the Companies' firm
11 transportation and supply capability to serve gas demand
12 for firm sales customers on a summer season and for a
13 normal winter season. Exhibit___(GIOSP-3), Schedule 10,
14 Peak Day Supply/Demand Balance compares the Companies' firm
15 transportation and supply capability to serve all firm
16 customers on a peak-day. The Companies' firm
17 transportation and supply capability includes all firm
18 transportation deliverability and accompanying purchased
19 firm supplies. As shown by these Schedules, the highest
20 cost of supply was assumed for purposes of the marginal
21 cost study, combined with the projected firm demand, are
22 less than the Supply Capability of the Companies except on
23 a design day. The need to add capacity to serve firm
24 customer requirements is driven by the Companies'

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1 requirements on a design day. As such the marginal cost
2 for commodity on a design day reflects the purchase of gas
3 through a peaking contract at a Con Edison citygate. The
4 Companies often secure peaking supplies to supplement
5 baseload, storage and other supplies to meet our peak
6 demand on a design day.

7 Q. Please explain the calculation of the marginal commodity
8 cost.

9 A. The marginal commodity cost is measured by using an
10 optimization model to dispatch load profiles under normal
11 and design weather and taking the resulting highest cost of
12 supply.

13 Q. What is the forecast period used in your marginal cost
14 study?

15 A. The forecast period for the marginal cost study is the
16 three-year period from November 2022 through October 2025.
17 Exhibit___(GIOSP-3), Schedule 11, Natural Gas Monthly
18 Marginal Commodity Costs, displays the monthly forecasted
19 marginal commodity costs for the three years of the study.
20 Exhibit___(GIOSP-3), Schedule 12, Marginal Commodity Costs,
21 summarizes these costs to show the impact of the
22 incremental increase on an average annual, summer season,
23 winter season, and design day basis.

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D. Capital and O&M Investments

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Q. Are there presently Gas Supply IT systems requiring capital enhancements?

A. Yes, there are presently two systems that require enhancements. The first is for the Transportation Customer Information System ("TCIS") with a capital cost of \$1.08 million over the rate period; the white paper is called "Utilizing AMI Data for Interruptible Gas Marketer Forecasting and Retail Choice Information System ("RCIS") Migration." The second project is for the Gas Transaction System ("GTS") with a capital cost of \$1.9 million in 2025 and is called "FIS GTS Enhancements and Upgrade." The white papers for these two projects are included in the exhibits of the Company's IT Panel.

Q. Starting with the first System Enhancement, Utilizing AMI Data for Firm and Interruptible Gas Marketer Forecasting and RCIS Migration, please describe the project's purpose.

A. TCIS is a software used by marketers to communicate gas operational information to Con Edison. TCIS has many functions, including the ability to communicate gas scheduling information, control access security, generate reports, post messages to the internet, store rates, create invoices and vouchers, and track enrollments/de-enrollments. In 2021, Con Edison enhanced TCIS to include

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1 the implementation of capacity release, implementation of
2 rebill adjustments, and include a display of AMI meter
3 reading data. The project proposed in this rate filing
4 will expand TCIS' capability to leverage AMI data for
5 forecasting as well as enable the Company to migrate
6 current functionality from RCIS to TCIS. Currently, the
7 system uses monthly data to create a linear forecasting
8 equation that intakes forecasted temperature to determine
9 the projected usage of firm transportation customers. AMI
10 data will allow the Company to use daily information for
11 daily forecasts, thus improving the accuracy of its
12 forecasts. The movement of marketer related functionality
13 from RCIS to TCIS will allow for the retirement of RCIS and
14 combine all marketer related functionality into one system.

15 Q. Please describe the purpose of the second project, FIS GTS
16 Enhancements and Upgrade.

17 A. GTS acts as the operational and accounting system of
18 record, used by commodity operations to record and schedule
19 deliveries of natural gas purchases to the Companies'
20 service territory. In addition, it identifies, assembles,
21 analyzes and reports the organization's transactions for
22 accrual purposes, accounts for the related assets and
23 liabilities and allocates the various costs of natural gas
24 purchases to the various end uses. This purpose of this

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1 project is to upgrade the FIS GTS application to its latest
2 version, modernize the system application to the cloud, and
3 automate select processes, notifications, and business
4 activities.

5 Q. Are there projected additional O&M expenses associated with
6 these projects?

7 A. Yes, there are. The additional O&M expense is \$690,000
8 over the rate period.

9 Q. What are the drivers for the projected increases in O&M?

10 A. The O&M expenses are associated with maintaining and
11 supporting the TCIS system on a real-time basis. TCIS is a
12 system used for daily operations, specifically to calculate
13 the daily gas delivery requirements of the more than eighty
14 gas marketers serving firm and interruptible customers in
15 our service territory. TCIS also acts as the electronic
16 bulletin board for accepting gas schedules from the gas
17 marketers in accordance with both day ahead and intra-day
18 scheduling deadlines. Those schedules are then sent
19 through systems to Gas Control every fifteen minutes.
20 These deliveries represent 50% of all nominations for firm
21 gas customers on our system. This information is critical
22 to Gas Control's confirming of gas supplies at the various
23 pipeline citygates in order to maintain system reliability.
24 This system is currently being supported by the capital

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1 team working on the current TCIS upgrades. However, the
2 complexity of this in-house developed product combined with
3 a recent uptick in system performance issues are driving
4 the need for more internal IT support to supplement those
5 of the third-party vendor. Due to the operational nature
6 of the system, system performance issues are urgent and
7 need to be resolved quickly, which is why the Company uses
8 the capital team to resolve these issues. The O&M request
9 is to provide funding to internally support TCIS starting
10 in late 2023, after the proposed capital project ends.

11 Q. Was the document titled "CONSOLIDATED EDISON COMPANY OF NEW
12 YORK, INC. - GIOSP Gas Distribution Peak Forecasting Model
13 O&M" prepared under this Panel's direction and supervision?

14 A. Yes, it was. This is the document which has been
15 identified as Exhibit ____ (GIOSP-4).

16 Q. Please describe this exhibit.

17 A. This exhibit outlines the O&M program change called
18 Gas Distribution Peak Forecasting Model.

19 Q. Please briefly describe its benefits and justification.

20 A. Given the Company's commitment to a clean energy future
21 and the interests of its stakeholders, optimization and
22 accurate planning for the gas distribution system is
23 necessary. The effectiveness of the Company's plans for
24 its gas distribution system has a direct impact on its gas

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1 customers. If the gas distribution system is not planned
2 for properly, there is the risk of shedding gas load in
3 certain areas. Identifying distinct areas of load growth
4 will assist with pinpointing non-pipe solutions instead of
5 the need for system reinforcements. Current gas policy is
6 moving towards less development of gas supply. As such,
7 the margins on the system will become tighter thus
8 prompting the need for a more granular and longer term
9 forecasting model for the distribution system.

10 The Company is seeking to develop a firm gas distribution
11 forecasting model that predicts firm gas peak day demand at
12 design weather conditions. This new model will predict the
13 peak-day and peak-hour firm gas demand for newly
14 established districts within the gas distribution system in
15 the Company's gas service territory out 20-years, which
16 will be developed by an expert forecasting vendor and the
17 Company's forecast development team. The Company's
18 forecast development team will be comprised of subject
19 matter experts from Gas & Steam Forecasting, Policy
20 Integration Forecasting, Forecasting Services, Gas
21 Engineering, and Gas Control - all working incrementally on
22 this effort.

23 The total cost of this project is projected to be
24 \$2.05 million, which will result in:

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- 1 • The development of an Excel based firm gas
2 distribution peak day forecasting model.
- 3 • A proven methodology and algorithms for transposing
4 the firm gas transmission system and regulator peak
5 day forecasts to distribution level district
6 forecasts.
- 7 • Mapping or the gas service territory to distribution
8 districts.

9 Accordingly, the cost request here is for forecast vendor
10 professional services and incremental Company labor costs.

11 The nature of this work is considered O&M and three
12 additional Full Time Equivalents ("FTE") are required for
13 Rate Year 1. In Rate Years 2 and 3, ongoing operations,
14 maintenance, and calibration of the
15 model/methodology/mapping will occur to sustain accuracy,
16 totaling \$190,000 per year for 1 FTE and associated
17 overheads for the Gas & Steam Forecasting Section.

18 As such, projected incremental O&M costs total \$1.67
19 million in Rate Year 1 (2023), \$0.19 million in Rate Year 2
20 (2024) and \$0.19 million in Rate Year 3 (2025). Please note
21 that the total of these values is about \$1 million less
22 than what is included in the associated program change form
23 and will be revised on update. The Company expects the

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1 completion of the forecast tool to occur early in RY2.

2 **E. Lost and Unaccounted for Gas**

3 Q. Please explain the current methodology for calculating lost
4 and unaccounted for ("LAUF") gas.

5 A. In accordance with the current Gas Rate Plan, the Company
6 uses a throughput method that calculates unaccounted for
7 gas by subtracting metered deliveries to customers from
8 metered supplies to the system. An adjustment is made for
9 Generators who contribute 0.5% of their metered deliveries
10 to the unaccounted for gas as well as the Delivering Party
11 to the Receiving Party among the New York Facilities
12 companies. Beginning September 2020 and going forward, gas
13 loss due to inactive accounts are no longer part of the net
14 gas loss calculation. The remaining LAUF gas is compared
15 against a rolling five-year average. The calculation of
16 the current average is shown on Exhibit___(GIOSP-3),
17 Schedule 13.

18 Q. Are you proposing any changes to Con Edison's LAUF
19 calculations for the period commencing January 1, 2023?

20 A. No.

21 **F. Renewable Natural Gas and Retail Access**

22 Q. Is RNG currently included in the retail access program?

23 A. Yes. In the event the Company purchases RNG on behalf of
24 customers, Retail Access customers would receive a portion

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1 through Tier 3.

2 Q. Are you proposing any changes to RNG and the Retail Access
3 program?

4 A. Yes. The Company is looking to incorporate the option for
5 Retail Access marketers to directly procure RNG injected
6 directly into our distribution system themselves. This
7 would not change any current allocations for baseload or
8 any of the tiers. Deliveries from RNG would be included in
9 the marketers' daily delivery requirement and those volumes
10 would be subject to the same imbalance and cashout
11 procedures as all other volumes delivered to Con Edison.

12 Q. Why are allocations for baseload or any of the tiers not
13 being changed if a Retail Access marketer subscribes to
14 RNG?

15 A. The Company is responsible for ensuring sufficient capacity
16 for all firm customers. The Company will continue to
17 procure sufficient capacity for all firm customers to
18 ensure that in the event a marketer turns its customers
19 back to the Company, there will be adequate capacity to
20 account for their peak day usage. If the Company were to
21 reduce the amount of capacity procured by the annual amount
22 of RNG, it may be unable to provide service down to the
23 peak day in the event that customers return to the utility
24 from a marketer.

G. Certified Natural Gas

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Q. Is the Company proposing any procurement of certified natural gas?

A. Yes. The Company is proposing a pilot program designed to allow for the procurement of certified gas, during the rate period, limited to an annual cost above traditional supplies of \$800,000 per year.

Q. What is certified natural gas?

A. Certified natural gas is natural gas originating from producing sites that have undergone third-party certification to verify that the operator has met high environmental standards and best practices for methane emissions reduction in their operations.

Q. Does the procurement of certified gas align with the goals of CLCPA?

A. Yes, per CLCPA, the 1990 net emissions baseline includes not only all statewide sources of greenhouse gas emissions but also those associated with imported electricity and fossil fuels.

Q. Why is the Company proposing a pilot program only?

A. The Company is proposing a pilot program given the market for certified natural gas is still evolving and many certification processes exist, rather than an industry standard. The experience from the pilot coupled with the

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1 reporting requirements of the pilot will allow the program
2 to be ramped up or down as appropriate.

3 Q. What reporting requirements is the Company proposing as
4 part of the pilot?

5 A. The Company will file an annual report each May, describing
6 progress of the pilot to date and meet with DPS Staff each
7 June to review the report and recommend next steps, which
8 could include filing with the Commission for modification
9 of the program.

10 **H. Gas Supply Constraints and Temporary Moratorium**

11 Q. Are there any updates to the status of the moratorium?

12 A. Yes, existing gas supply constraints in this part of our
13 service territory still limit our ability to meet customer
14 demand there.

15 Q. Is there an expectation of when the temporary moratorium
16 will be lifted?

17 A. The temporary moratorium is expected to be lifted when the
18 Company's subscribed Tennessee compression-only project is
19 in service. The Company contracted with Tennessee Gas
20 Pipeline to increase firm transportation capacity to our
21 Westchester citygates utilizing increases in compression
22 only. Tennessee has applied for permits for this project
23 and those requests are currently pending before the Federal
24 Energy Regulatory Commission and various state agencies.

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1 While Tennessee continues to work toward an in-service date
2 of November 1, 2022, the Companies are planning for an
3 estimated in-service date of November 1, 2023.

4 Q. Are there other considerations that would allow the
5 temporary moratorium to be lifted?

6 A. Yes, if the demand in the area decreases to a level where
7 gas supply constraints no longer exist, but our current
8 forecast does not show demand decreasing to that degree.

9 Q. What changes has the Company undertaken to its supply
10 portfolio while the moratorium remains in effect?

11 A. In order to meet the increase in demand associated with the
12 acceleration of customer applications received in the sixty
13 days between moratorium announcement and implementation,
14 the Company entered into an agreement with a trucked CNG
15 vendor. As a result, a trucked CNG facility capable of
16 providing 25,000 dt per day of supply is now in-service in
17 Westchester County. This facility is temporary and will be
18 retired once the Tennessee Pipeline project enters service
19 or demand is reduced such that the CNG facility is no
20 longer necessary and the moratorium is lifted.

21 Q. Has the Company provided any assistance to customers during
22 the moratorium?

23 A. Yes. The Company provides information on non-fossil
24 alternatives and has worked with potential customers prior

1 to the purchase or lease of a property to find alternative
2 solutions that will meet their energy needs.

3 **I. Regulatory Activities**

4 Q. Do the Companies undertake any regulatory efforts to
5 maintain the reasonableness of their gas costs and the
6 reliability of their supply?

7 A. Yes. The Companies participate in FERC proceedings
8 involving: (i) their interstate pipeline transportation and
9 storage providers ("service providers") and (ii) generic
10 issues that impact the cost and quality of the gas service
11 received by the Companies from FERC-regulated entities.

12 The Companies review all significant FERC filings made by
13 the interstate pipelines and storage companies from which
14 they receive service. Since January 2017, the Companies
15 have participated in numerous FERC proceedings and, when
16 circumstances dictate, have filed detailed comments or
17 objections. Exhibit___(GIOSP-3), Schedule 7, lists the
18 FERC dockets in which Con Edison has filed detailed
19 comments since January 2017.

20 The Companies are also active participants in the AGA FERC
21 Regulatory Committee, which takes an active role in a range
22 of federal regulatory issues relating to gas. The
23 Companies closely follow FERC proceedings that impact rates
24 and terms and conditions of service of their interstate

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1 pipeline service providers and actively participate in
2 litigation as well as settlement negotiations. In addition
3 to the FERC proceedings listed in Exhibit___(GIOSP-3)
4 Schedule 7, the Company is participating in several federal
5 appellate court cases where we advocate in favor of
6 reasonable prices and adequate supply for our customers.
7 The Companies have also actively participated in the FERC's
8 inquiries into gas-electric coordination and, more
9 recently, impacts to pipeline rates due to the Tax Cuts and
10 Jobs Act. The Companies are also actively engaged on
11 several pipeline rate cases, both ongoing and expected, to
12 negotiate reasonable rates for our customers. When
13 appropriate, the Companies also participate in
14 collaborative discussions among pipelines and their
15 customers, the North American Energy Standards Board
16 ("NAESB") and the Natural Gas Council ("NGC"), either
17 directly or through their membership in the AGA.GSP-

18 Q. Please provide examples of the Companies' active
19 participation in the rate proceedings of their interstate
20 pipeline suppliers.

21 A. As examples, the Companies participated and are actively
22 participating in rate settlements with Texas Eastern (RP21-
23 1001 and RP21-1188), Eastern Gas (RP21-144 and RP21-1187),
24 National Fuel (RP19-1426) and Transcontinental Gas

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1 Pipeline's ongoing market-based rate proceeding (RP21-
2 1143). The Companies are actively participating in Texas
3 Eastern's (RP21-1001 and RP21-1188), Eastern Gas' (RP21-
4 1187), and Transcontinental Gas Pipeline's (RP21-1143)
5 ongoing FERC proceedings with LDC customer groups and is
6 leading the LDC customer groups in Texas Eastern's and
7 Transcontinental Gas Pipeline's proceedings, the Texas
8 Eastern Customer Group and the WSS Customer Group,
9 respectively.

10 Other FERC proceedings the Companies are following relate
11 to interstate pipeline cost allocation issues involving,
12 for example, fuel retention and electric power compression
13 charges. In a recent case, the Companies negotiated a
14 favorable settlement agreement related to Algonquin's fuel
15 rates (RP18-75), protecting a substantial one-time refund
16 and preventing unreasonable cost shifting to our customers.
17 In 2016 and 2017, the Companies were involved in settlement
18 discussions regarding costs Texas Eastern had incurred and
19 will incur as a result of its PCB Environmental Remediation
20 Program. The Companies were participants in a shipper
21 group that successfully negotiated a settlement agreement
22 with Texas Eastern, and this agreement was ultimately
23 approved by FERC in Docket Nos. 17-964 and 17-967.

24 The Companies also closely monitor proposed tariff changes

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1 by service providers that modify their terms and conditions
2 of service, including matters related to rights of first
3 refusal, gas quality, lost and unaccounted for gas, bidding
4 rules, shipping priority, service provider credit policies,
5 and tariff and negotiated agreement filings that could
6 affect the quality of pipeline service to the Companies.

7 The Companies also closely monitor new incremental services
8 being offered by the Companies' current service providers
9 so that the rates of those new incremental services are not
10 subsidized by existing customers, such as the Companies.

11 For example, in 2017, the Companies protested two National
12 Fuel proceedings that would have resulted in the
13 subsidization of fuel costs for the new Northern Access
14 2015 ("NA2015") expansion by system shippers, including the
15 Companies. FERC ultimately sided with the Companies and
16 required separate accounting for NA2015 fuel costs in
17 Docket Nos. CP14-100 and RP17-407.

18 Q. What other regulatory efforts have the Companies taken to
19 maintain the reliability of their supply?

20 A. The Companies have focused on preventing increasing
21 electric system reliance on natural gas as a fuel from
22 adversely affecting gas system reliability. In particular,
23 the Companies advocated vigorously for the NYISO to
24 prohibit electric generators from recovering penalties they

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1 incur as a result of violating Operational Flow Orders.
2 Related rules changes were approved by the NYISO's
3 stakeholder committees and FERC in 2016. In addition, the
4 Companies continue to advocate for coordination of electric
5 and gas system reliability and resilience through market
6 rule changes, such as expanding dual-fuel requirements in
7 New York State to outside of our service territory. The
8 Companies are currently working closely with the NYISO on a
9 Fuel Security Study, which, among other things, will
10 identify possible system needs to be addressed.

11 Q. Are the Companies a member of any groups addressing gas
12 reliability issues in New York State?

13 A. Yes. The Companies have been an active participant in the
14 Natural Gas Reliability Advisory Group ("NGRAG") from its
15 initiation. The NGRAG was formed to consider the evolving
16 gas capacity markets and how they affect reliability, and
17 to inform the Commission about issues that need to be
18 addressed to protect reliability. The NGRAG has focused
19 discussion on the NYISO gas/electric workgroup to address
20 gas supply and transportation issues, updates of an ongoing
21 LDC collaborative addressing Gas Marketer Transportation
22 and Balancing Programs, and operational updates provided by
23 gas industry LDCs, pipelines, marketers, customer groups,
24 NYSERDA and NYMEX representatives.

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1 Q. Please describe the Companies' efforts in connection with
2 NAESB.

3 A. We have been a member of NAESB and its predecessor
4 organization, the Gas Industry Standards Board ("GISB"),
5 since the latter's inception in 1994. The Companies
6 continue to monitor the development of new business
7 standards and, as appropriate, participate in periodic
8 revisions to the NAESB Base Contract, a form agreement
9 frequently used in the industry for the purchase and sale
10 of natural gas.

11 Q. Please describe the Companies' efforts in connection with
12 the NGA.

13 A. The Companies participate on NGA's New York State Gas
14 Utility Planning Committee ("NYPLAN"). NYPLAN is comprised
15 of planning, supply, and regulatory personnel from New
16 York's investor-owned natural gas utilities. Its mission
17 is to provide a forum for New York State gas companies to
18 address the broad spectrum of issues relating to the
19 natural gas supply, transportation, storage, peak shaving,
20 and demand planning process. This includes, but is not
21 limited to, such responsibilities as responding to
22 regulatory mandates, discussion/follow-up on key
23 regulatory/ legislative issues, and working in
24 collaboration with NYSEARCH, a collaborative Research,

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1 Development & Demonstration organization that serves its
2 gas utility member companies, on R&D projects.

3 The Companies are members of the NGA Gas Supply Task Force
4 ("Task Force"). The Task Force includes representation
5 from all the interstate transmission companies serving the
6 region, LNG importers and trucking companies, and the
7 largest of the northeast region's LDCs. Recent members
8 include several of the larger power generation owners who
9 use natural gas as a major part of their fuel supply. The
10 Task Force meets prior to the winter heating season to
11 confirm communication protocols and to provide updates on
12 the status of member company transmission and storage
13 systems. The Task Force is convened during the winter to
14 monitor supply and deliverability issues. The region's
15 state regulators and the electric grid operators are
16 notified of Task Force meetings and are provided meeting
17 summaries.

18 Q. Does this conclude your direct testimony?

19 A. Yes, it does.

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